The 59th Annual Meeting of the International Society of Electrochemistry

Electrochemistry Down to the Molecular Level: Interfacial Science for Life and Technology

September 7 to 12, 2008
Seville, Spain

PROGRAM

International Society of Electrochemistry
Rue de Sébeillon 9b
1004 Lausanne
Switzerland

Printed in Spain

Welcome Address

The organizing committee of the 59th Annual Meeting of the International Society of Electrochemistry warmly invites you to visit Seville on September 7-12, 2008 and contribute to the scientific presentations and discussions related to the main subject of the meeting: Electrochemistry Down to the Molecular Level: Interfacial Science for Life and Technology.

Seville is located in the South of Spain on the plain of the Guadalquivir River, which flows through the city. Seville's origin is linked with the Tartessian civilisation and according to the oldest myths was founded by Hercules. The Romans called the town Hispalis and the Moors Isbiliya. During the XVII Century the harbour was the gate between Europe and America. This period was the golden age of the city. At present, Seville is the capital of the Andalusian Region, the seat of its parliament and government.

The main theme of the Meeting aims to emphasise the importance of electrochemical interactions at a molecular level and the consequences that the detailed knowledge of electrochemical systems have towards the improvement of human life through technological applications. The increasing comprehension of the fundamental aspects involved in electrochemical reactions and in interfacial structure at the atomic level opens a fan-shaped window on the different fields of research in which Electrochemistry is involved: from living cells to fuel cell reactions, from sensors to electrosynthesis, from nanostructures to bulk materials. An awareness of the scientific basis underlying these processes will stimulate further developments and lead to new and more efficient applications.

The Annual Meeting will explicitly involve all the different Scientific Divisions into which the International Society of Electrochemistry is organised, pointing out and developing the links between fundamental and applied aspects in each particular domain of research. The objective of meetings is to enable communication between different approaches to a particular subject and to establish links between researchers with common interests to facilitate the growth of new ideas in research. This is particularly important in the complex scenario of interfaces, that fortunately benefit from a common language, that of Electrochemistry.

We look forward to seeing you in Seville in 2008.

Manuela Rueda, Antonio Aldaz, Christopher Brett
Co-chairs, Organizing Comittee, ISE Annual Meeting 2008

Organizing Committee

Co-Chairs

Manuela Rueda, Spain (chair)
Antonio Aldaz, Spain (co-chair)
Christopher Brett, Portugal (co-chair)

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Lucas Hernandez, Spain
Petr Novak, Switzerland
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Juan J. Ruiz (University of Cordoba, Spain)
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Francisco Prieto (University of Seville, Spain) (Secretary of the LOC)

Symposia Organizers

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells

Ana Maria Oliveira-Brett (coordinator), Universidade de Coimbra, Portugal
Renata Bilewicz, Warsaw University, Poland
Ernesto Calvo, Universidad de Buenos Aires, Argentina
Lo Gorton, Lund University, Sweden
Wolfgang Schuhmann, Ruhr-Universität Bochum, Germany

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spetroscopic Techniques and Theoretical and Computational Methods

Marc Koper (coordinator), University of Leiden, Netherlands
Rafael Andreu, University of Seville, Spain
Gary Attard, University of Cardiff, United Kingdom
Enrique Herrero, University of Alicante, Spain
Antonio Rodes, University of Alicante, Spain

Symposium 3: Symposium 3: Electroanalytical Chemistry at the Nanoscale

György Inzelt (coordinator), Eötvös Loránd University, Budapest, Hungary
Agustín Costa, University of Oviedo, Spain
Salvatore Daniele, University of Venice, Italy
Hasuck Kim, Seoul National University, Korea
José M. Pingarrón, Complutense University of Madrid, Spain
Patrick Unwin, University of Warwick, Coventry, UK

Symposium 4: Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers

Ole Hammerich (coordinator), University of Copenhagen, Denmark
Luis Camacho, University of Cordoba, Spain
Jiři Ludvík, J. Heyrovský Institute of Physical Chemistry, Czech Republic
Marcin Opallo, Polish Academy of Sciences, Poland
Lubomír Pospíšil, J. Heyrovský Institute of Physical Chemistry, Czech Republic
J. Faye Rubinson, Georgetown University, Washington DC, USA,

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

Patrik Schmuki (coordinator), University of Erlangen, Germany
Daniel Lincot, Ecole Nationale Supérieure de Chimie de Paris, France
Carlos Muller, University of Barcelona, Spain
Toribio F. Otero, University of Cartagena, Spain

Symposium 6: Symposium 6: Corrosion: Fundamental Understanding to Practical Applications

Mark Orazem (coordinator), University of Florida, USA
Claude Gabrielli, CNRS, Paris, France

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes

Achille De Battisti (coordinator), University of Ferrara, Italy
Christos Comninellis, EPFL, Switzerland
Claude Deslouis, University P. and M. Curie, Paris, France
Yunny Meas, CIDETEQ, Mexico
Constantinos G. Vayenas, University of Patras, Greece

Symposium 8: Symposium 8: Electrochemical Energy Conversion and Storage

Günther Scherer, Paul Scherrer Institute, Villigen, Switzerland
Rüdiger Kötz, Paul Scherrer Institute, Villigen, Switzerland
Nicolas Alonso-Vante, University of Poitiers, France
Ernesto Rafael González, Institute of Chemistry of Sao Carlos, Brazil
Claude Lamy, University of Poitiers, France

Symposium 9: Symposium 9: Micropowered Devices: Energy Harvest, Storage and Conversion

Daniel Scherson, Case Western Reserve University, Cleveland, USA

Symposium 10: Symposium 10: General Session

Claudio Gutiérrez (coordinator), C.S.I.C. Spain
Annick Hubin, University of Brussels, Belgium

Symposium Session Chairs

MONDAY 8 SEPTEMBER 2008 - AM

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells
Salón de Grados (Floor PA)
Chair: Ana Maria Oliveira Brett, Nabil El Murr

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods
Location: Room 210 (Floor P1)
Chair: Marc Koper, Jacek Lipkowski

Symposium 3: Electroanalytical Chemistry at the Nanoscale
Location: Room 211 (Floor P1)
Chair: György Inzelt, Hasuck Kim, Richard Compton

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers
Location: Room 209 (Floor P1)
Chair: Ole Hammerich, Daniel Little

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development
Location: Room 007 (Floor PB)
Chair: Carlos M. Muller, Toribio Fernández Otero

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications
Location: Room 212 (Floor P1)
Chair: Hisasi Takenouti, Suzanne Joiret

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State-of-the-Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes
Location: Room 214 (Floor P1)
Chair: Constantinos Vayenas, Pietro Cavallotti

Symposium 8: Electrochemical Energy Conversion and Storage
Main Theatre (Salón de Actos, Floor PB)
Chair: Guenther Scherer, Edson Ticianelli

Symposium 9: Micropowered Devices: Energy Harvest, Storage and Conversion
Location: Room 213 (Floor P1)
Chair: Daniel A. Scherson

Symposium 10: General Session
Location: Room 215 (Floor P1)
Chair: C. Gutierrez, A. Lasia

MONDAY 8 SEPTEMBER 2008 - PM

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells
Salón de Grados (Floor PA)
Chair: Mamantos Prodromidis, Fred Lisdat

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods
Location: Room 210 (Floor P1)
Chair: Wolfgang Schmickler

Symposium 3: Electroanalytical Chemistry at the Nanoscale
Location: Room 211 (Floor P1)
Chair: Salvatore Daniele, Munetaka Oyama

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers
Location: Room 209 (Floor P1)
Chair: James Y. Becker, Michael Schmittel

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development
Location: Room 007 (Floor PB)
Chair: Daniel Lincot, Patrick Schmuki

Symposium 5b: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development
Location: Room 107 (Floor E1)
Chair: Derck Schlettwein, Josef Wendrinsky

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications
Location: Room 212 (Floor P1)
Chair: Suzanne Joiret, Hisasi Takenouti

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes
Location: Room 214 (Floor P1)
Chair: Yunni Meas, Claude Deslouis

Symposium 8: Electrochemical Energy Conversion and Storage
Main Theatre (Salón de Actos, Floor PB)
Chair: Minoru Inaba

Symposium 9: Micropowered Devices: Energy Harvest, Storage and Conversion
Location: Room 213 (Floor P1)
Chair: Bruce Dunn

Symposium 10: General Session
Location: Room 215 (Floor P1)
Chair: V. Climent, K. Yliniemi

TUESDAY 9 SEPTEMBER 2008 - AM

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells
Salón de Grados (Floor PA)
Chair: J. Justin Gooding, Andrew Nelson

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods
Location: Room 210 (Floor P1)
Chair: Thomas Wandlowski, Brian Hayden

Symposium 3: Electroanalytical Chemistry at the Nanoscale
Location: Room 211 (Floor P1)
Chair: Arkady Karyakin, Daniel Mandler, Danny O'Hare

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers
Location: Room 209 (Floor P1)
Chair: Jean Lessard, Elisabet Dunach

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development
Location: Room 007 (Floor PB)
Chair: Maria Ariza, Evgeny Katz

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications
Location: Room 212 (Floor P1)
Chair: Kurt Hebert, Kevin Ogle

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes
Location: Room 214 (Floor P1)
Chair: Sergio Trasatti, Thomas W. Chapman

Symposium 8: Electrochemical Energy Conversion and Storage
Main Theatre (Salón de Actos, Floor PB)
Chair: Nicola Alonso-Vante, Mogens Mogensen

Symposium 8b: Electrochemical Energy Conversion and Storage
Location: Room 107 (Floor E1)
Chair: Ruediger Koetz, Prof. Kwang Bum Kim

Symposium 9: Micropowered Devices: Energy Harvest, Storage and Conversion
Location: Room 213 (Floor P1)
Chair: Patrice Simon

Symposium 10: General Session
Location: Room 215 (Floor P1)
Chair: M. Anderson, A. Hubin

TUESDAY 9 SEPTEMBER 2008 - PM

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells
Salón de Grados (Floor PA)
Chair: Giuseppe Palleschi, Taek Dong Chung

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods
Location: Room 210 (Floor P1)
Chair: Gary Attard

Symposium 3: Electroanalytical Chemistry at the Nanoscale
Location: Room 211 (Floor P1)
Chair: Marcin Opallo, Frederique Deiss

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers
Location: Room 209 (Floor P1)
Chair: Jim Simpson, Jiri Ludvik

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development
Location: Room 007 (Floor PB)
Chair: Salvatore Piazza, Giovanni Zangari

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications
Location: Room 212 (Floor P1)
Chair: Kevin Ogle, Kurt Hebert

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes
Location: Room 214 (Floor P1)
Chair: Geoff Kelsall, Masatsugu Morimitsu

Symposium 8: Electrochemical Energy Conversion and Storage
Main Theatre (Salón de Actos, Floor PB)
Chair: Radoslav Adzic, Zempachi Ogumi

Symposium 8b: Electrochemical Energy Conversion and Storage
Location: Room 107 (Floor E1)
Chair: Elzbieta Frackowiak, Wataru Sugimoto

Symposium 9: Micropowered Devices: Energy Harvest, Storage and Conversion
Location: Room 213 (Floor P1)
Chair: Debra Rolison

Symposium 10: General Session
Location: Room 215 (Floor P1)
Chair: M. E. Vela, E. Vieil

WEDNESDAY 10 SEPTEMBER 2008 - AM

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells
Salón de Grados (Floor PA)
Chair: Wolfgang Schuhmann, Steffi Krause

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods
Location: Room 210 (Floor P1)
Chair: David Fermin

Symposium 2b: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods
Location: Room 213 (Floor P1)
Chair: Juergen Behm

Symposium 3: Electroanalytical Chemistry at the Nanoscale
Location: Room 211 (Floor P1)
Chair: Damian Arrigan, Guy Denuault

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers
Location: Room 209 (Floor P1)
Chair: Alain Deronzier, Angela Molina

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development
Location: Room 007 (Floor PB)
Chair: John Stickney, Claude Levy-Clement

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications
Location: Room 212 (Floor P1)
Chair: Kemal Nisancioglu, Ramon Novoa

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes
Location: Room 214 (Floor P1)
Chair: André Savall, Ann Cornell

Symposium 8: Electrochemical Energy Conversion and Storage
Main Theatre (Salón de Actos, Floor PB)
Chair: Hector Abruna, Pascal Maire

Symposium 8b: Electrochemical Energy Conversion and Storage
Location: Room 107 (Floor E1)
Chair: Ernesto Rafael Gonzalez, Dr. Andrei Kulikovsky

Symposium 10: General Session
Location: Room 215 (Floor P1)
Chair: G. Lang, I. Vandendael

THURSDAY 11 SEPTEMBER 2008 - AM

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells
Salón de Grados (Floor PA)
Chair: Lo Gorton, Judith Rishpon

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods
Location: Room 210 (Floor P1)
Chair: Antonio Rodes

Symposium 3: Electroanalytical Chemistry at the Nanoscale
Location: Room 211 (Floor P1)
Chair: Tomokazu Matsue, Ligia Maria Moretto

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers
Location: Room 209 (Floor P1)
Chair: Francisco Montilla, Richard Nichols

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development
Location: Room 007 (Floor PB)
Chair: Sachiko Ono, Kohei Uosaki

Symposium 5b: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development
Location: Room 213, 1sst Floor
Chair: Mikheil Vorontyntsev, Hiroki Habazaki

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications
Location: Room 212 (Floor P1)
Chair: Ramon Novoa, Kemal Nisancioglu

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes
Location: Room 214 (Floor P1)
Chair: Christos Comninellis, Sandra Rondinini

Symposium 8: Electrochemical Energy Conversion and Storage
Main Theatre (Salón de Actos, Floor PB)
Chair: Robert Kostecki

Symposium 8b: Electrochemical Energy Conversion and Storage
Location: Room 107 (Floor E1)
Chair: Elton Cairns, Prof. Andrea Russell

Symposium 10: General Session
Location: Room 215 (Floor P1)
Chair: G. Snook, Z. Samec

THURSDAY 11 SEPTEMBER 2008 - PM

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells
Salón de Grados (Floor PA)
Chair: Jan Labuda, Miroslav Fojta

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

Session dedicated to Profs. Jan Sluyters and Margaretha Sluyters-Rehbach in recognition of their significant contributions to physical and interfacial electrochemistry
Location: Room 210 (Floor P1)
Chair: Rafael Andreu, Marc Koper

Symposium 3: Electroanalytical Chemistry at the Nanoscale
Location: Room 211 (Floor P1)
Chair: Maria Encarnacion Lorenzo, Chee-Seng Toh

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers
Location: Room 209 (Floor P1)
Chair: Ladislav Kavan, Gérard Bidan

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development
Location: Room 007 (Floor PB)
Chair: Waldfried Plieth, Wlodzimierz Kutner

Symposium 5b: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development
Location: Room 213 (Floor P1)
Chair: Ivan Krastev, Achim Walter Hassel

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications
Location: Room 212 (Floor P1)
Chair: Fatima Montemor, Irina Serebrennikova

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes
Location: Room 214 (Floor P1)
Chair: Claude Levy-Clement, Yoshio Takasu

Symposium 8: Electrochemical Energy Conversion and Storage
Main Theatre (Salón de Actos, Floor PB)
Chair: Petr Novak

Symposium 8b: Electrochemical Energy Conversion and Storage
Location: Room 107 (Floor E1
Chair: Claude Lamy, Masahiro Watanabe

Symposium 10: General Session
Location: Room 215 (Floor P1)
Chair: K. Mayrhofer, J. Marquez

FRIDAY 12 SEPTEMBER 2008 - AM

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells
Salón de Grados (Floor PA)
Chair: Paul Millner, Phillip Bartlett

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods
Location: Room 210 (Floor P1)
Chair: Ezequiel Leiva

Symposium 2b: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods
Location: Room 213 (Floor P1)
Chair: Enrique Herrero

Symposium 3: Electroanalytical Chemistry at the Nanoscale
Location: Room 211 (Floor P1)
Chair: Virginia Ruiz, José M. Pingarron

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers
Location: Room 209 (Floor P1)
Chair: Catherine Combellas, Bernd Speiser

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development
Location: Room 007 (Floor PB)
Chair: Thierry Pauporte, Estibalitz Ochoteco

Symposium 5b: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development
Location: Room 107 (Floor E1)
Chair: Robert Dryfe, Hiroaki Tsuchiya

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications
Location: Room 212 (Floor P1)
Chair: Irina Serebrennikova, Fatima Montemor

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes
Location: Room 214 (Floor P1)
Chair: Emilia Morallon, Marco Musiani

Symposium 8: Electrochemical Energy Conversion and Storage
Main Theatre (Salón de Actos, Floor PB)
Chair: Katsuhiko Naoi

Symposium 10: General Session
Location: Room 215 (Floor P1)
Chair: A. Cuesta, C. Deslouis

Contents list

Tutorial Lectures

Sunday 7 September, 2008
16:00 to 19:30

Impedance Spectroscopy

Martin Bojinov
Tamas Pajkossy

Location:
Faculty of Chemistry (Facultad de Química)
Campus of Reina Mercedes
Street: Profesor García González 1 and 2

Scanning Probe Microscopy

Vincent Vivier
Julie Macpherson

Location:
Faculty of Pharmacy (Facultad de Farmacia)
Campus of Reina Mercedes
Street: Profesor García González 1 and 2

2007 ISE Prize Winners and Award Lecturers

Tajima Prize

Tuesday 9 September, **10:10 to 10:30**, Room 107 (Floor E1)

Chi-Chang Hu, National Chung Cheng University, Taiwan
Recent Advances in Oxide-Based Electrochemical Supercapacitors

Prix Jacques Tacussel

Monday 8 September, **11:10 to 11:50**, Room 210 (Floor P1)

Bruno Pettinger, Fritz Haber Institut, Berlin, Germany
Tip-enhanced Raman spectroscopy at interfaces

Hans-Jürgen Engell Prize

Thursday 11 September, **16:50 to 17:30**, Room 007 (Floor PB)

Hiroaki Tsuchiya, Osaka University, Japan
Metallurgical aspects on the formation of self-organized anodic oxide nanotube layers

Katsumi Niki Prize for Bioelectrochemistry

Monday 8 September, **9:10 to 9:50**, Salón de Grados (Floor PA)

Philip N. Bartlett, University of Southampton, UK
Understanding Enzyme Electrodes

Klaus-Jürgen Vetter Prize for Electrochemical Kinetics

Thursday 11 September, **17:30 to 17:50**, Room 210 (Floor P1)

Magdalena Hromadová, Heyrovský Institute of Physical Chemistry, Prague, Czech Republic
Cationic Catalysis and Current Oscillations in the Reduction of Aromatic Nitrocompounds

Frumkin Memorial Medal

Monday 8 September, **15:00 to 16:00**, Salón de Actos (Floor PB1)

J**ean Clavilier**, LEI CNRS, France
An experience of interfacial and surface electrochemistry

Oronzio and Niccolò De Nora Foundation Prize of ISE on Electrochemical Energy Conversion

Wednesday 10 September, **10:10 to 10:30**, Salón de Actos (Floor PB)

Priscilla Reale, University "La Sapienza", Rome, Italy
Application of Ionic Liquids as electrolytes for safe and sustainable lithium ion batteries

Oronzio and Niccolò De Nora Foundation Young Author Prize

Thursday 11 September, **10:50 to 11:10**, Room 210 (Floor P1)

Nuria Garcia-Araez, University of Alicante, Spain
Water reorientation on adatom-modified Pt(111) from nanosecond laser pulsed experiments

Opening Ceremony

Monday 8 September, **8:30 to 9:00**, Salón de Actos (Floor PB)

Plenary Lecturers

Monday 8 September, **15:00 to 16:00**, Salón de Actos (Floor PB)

Professor Jean Clavilier LEI CNRS, France
An experience of interfacial and surface electrochemistry

Tuesday 9 September, **9:00 to 10:00**, Salón de Actos (Floor PB)

Professor Christian Amatore (CNRS, Paris, France)
Neurovascular Coupling Between Neuronal Activity and Blood Delivery in Brain

Wednesday 10 September, **9:00 to 10:00**, Salón de Actos (Floor PB)

Professor Henry S. White (University of Utah, USA)
Electrochemistry in Synthetic and Biological Nanopores

Thursday 11 September, **9:00 to 10:00**, Salón de Actos (Floor PB)

Professor Richard G. Compton (University of Oxford, UK)
The Design, Characterisation and Application of Nanoelectrode Arrays

Friday 12 September, **9:00 to 10:00**, Salón de Actos (Floor PB)

Professor Zhong-Qun Tian (Xiamen University, China)
Electrochemical SERS from Nanostructured Electrodes: Towards a Versatile Vibrational Strategy

Exhibition and Poster Sessions

Exhibition

Open Times

Monday:	10:00-19:10
Tuesday:	10:00-19:50
Wednesday:	10:00-15:30
Thursday	10:00-18:50
Friday:	10:00-12:10

Exhibition Reception Tuesday 18:10-19:50

Posters

Session 1: Poster set-up Monday 08:15-09:00

for posters in symposium 1, 2, 3, 4 and 5

See symposium locations on page 167

Open Times for viewing

Monday:	10:00-19:00
Tuesday:	09:00-19:50

Poster Presentation times

Monday:	14:10-14:50
	18:10-19:10
Tuesday:	14:10-15:10
	18:10-19:50

Poster take-down Tuesday 19:50

Session 2: Poster set-up Wednesday 08:30-09:30

for posters in symposium 6, 7, 8, 9 and 10

See symposium locations on page 167

Open Times for viewing

Wednesday:	10:00-15:30
Thursday:	09:00-18:50
Friday:	09:00-12:10

Poster Presentation times

Wednesday:	14:30-15:30
Thursday:	14:10-15:10
	17:50-18:50
Friday:	11:30-12:10

Poster take-down Friday 12:10

Oral presentation program

Monday 8 September 2008

8:15	Posters set-up										
8:30-9:00	**Opening ceremony**										
	S1	**S2**	**S3**	**S4**	**S5**	**S5-B**	**S6**	**S7**	**S8**	**S9**	**S10**
	Salón de Grados	**Room 210**	**Room 211**	**Room 209**	**Room 007**	**Room 107**	**Room 212**	**Room 214**	**Salón de Actos**	**Room 213**	**Room 215**
9:10-9:30	P. Barlett	G. Attard	S. Danielle	D. Little	E. Chassaing		L.M. Muresan	Y. Takasu	M. Inaba	E. Peled	
9:30-9:50		K. Itaya	M.E. Lorenzo		J. Stickney		R. Ramanauskas	R. Berenguer	A.E. Russell		
9:50-10:10	N. El Murr	B. Hayden	D. Arrigan	L. Lessard	S. Giménez		H. Takenouti	S. Schmachtel	R. Adzic	K.S. Choi	J. Souza-G.
10:10-10:30	T. Ruzgas	E. Leiva		M. Schmittel	A. Kongkanand			H. Van Parys		S. Tintignac	J. Arias-Pad.
10:30-10:50	B.Liu		M. Opallo	A. Gennaro	D. Schlettwein		B. Bello-Rodiguez	O. Scialdone	M. Watanabe	K. Kanamura	B. Losiewicz
10:50-11:10	Coffee Break										
11:10-11:30	H. Morley	B. Pettinger	V. Ruiz	L. Nyholm	C. Lévy-Clément		D. Duday	D. Bélanger	S. Swathirajan	P. Simon	R. Jurczkowski
11:30-11:50	F. Lisdat		L. Thouin	E.Dunach			K.J. Correia	S. Rondinini	F. Jaouen		M. Gibilaro
11:50-12:10	F.N. Crespilho	A. Kuzume	M. Oyama	J. Becker	T. Pauporté		B. Tribollet	S. Trasatti	C.R. Cabrera		M. Anderson
12:10-12:30		R.J. Behm	C. Baier	P. R. Mussini	P. Schmuki		Q. V. Overmeere		P. Kang Shen		I. Vandendael
12:30-12:50		D. Khoshtariya			J. Wendrinski		S. Cattarin	M.J. Pacheco			
12:50-13:10											

Lunch

14:10-14:30	Poster session / coffee
14:30-14:50	**Symposiums S1, S2, S3, S4 & S5**

15:00-16:00	**Plenary lecture: Professor Jean Clavilier, - Main Theatre (Salón de Actos)**										
16:10-16:30	F.W. Scheller	C. Costentin	S.M. Chen	O. Hammerich	T. Yoshida		N. Pebere	L. Stoica	E. Ticianelli	D. Rolison	T. Nagaura
16:30-16:50			Chee-Seng Toh	M. Largeron			H. G. de Melo	J. Gustavsson			I. Koiwa
16:50-17:10	Coffee Break										
17:10-17:30	M. Prodromidis	T. Wandlowski	J. Wang	B. Speiser	B.M. Soucase	F. Silva	S. Joiret	M. Morimitsu	S. Sotiropoulos	R. Bilewicz	C. R. Costa
17:30-17:50	S. Cordoba de Torr.				T. Oekermann	C.K. O'Sullivan			O. Brandao Alves	B. Seyfang	
17:50-18:10	M. Pedrero	M. Newton	S. Griveau	A. Doherty	C.A. Schiller		M. Bojinov				
18:10-18:30											
18:30-19:10	Poster session **Symposiums S1, S2, S3, S4 & S5**										
19:10-19:30	Departure to Reales Alcázares - City Reception										

Monday 8 September 2008

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells

Salón de Grados (Floor PA)

Chair: Ana Maria Oliveira Brett, Nabil El Murr

09:10 to 09:50 *Keynote*

Philip Bartlett (School of Chemistry, University of Southampton, Southampton, United Kingdom)
Understanding Enzyme Electrodes

09:50 to 10:10

Nabil El Murr (CNRS / University of Nantes, Nantes, France), Carmen Creanga
Kinetic Studies to Better Comprehend the Electron Transfers, via Mediators, Between Redox Enzymes and Electrode Surface and hence to Dispose of Interferences.

10:10 to 10:30 *Invited*

Tautgirdas Ruzgas (Biomedical Laboratory Science, Technology, Faculty of Health and Society, Malmö University, Malmö, Sweden)
Amperometric Response from Metabolic Pathways in Saccharomyces cerevisiae Cells

10:30 to 10:50

Baohong Liu (Fudan University, Shanghai, China), Ji Ji, Jilie Kong, Hui Yang, Song Zhang
Label-free Electrochemical Kinase Activity Analysis

10:50 to 11:10

Coffee Break

11:10 to 11:30

Hayley Morley (Molecular Organisation and Assembly in Cells, Coventry, United Kingdom), Stuart Mackenzie, Julie Macpherson, Mikhail Mazurenka, Mathias Schnippering, Patrick Unwin, Meiqin Zhang
A New Instrument to Probe the Assembly of Functionalized Interfaces: From Small Molecules to Proteins

11:30 to 11:50 *Invited*

Fred Lisdat (Biosystems Technology Wildau University of Applied Sciences, Wildau, Germany)
Catalytically active protein multilayer architectures on electrodes prepared by a self assembly approach

11:50 to 12:10

Frank Nelson Crespilho (UFABC-Brazil, Santo André, Brazil)
Bionanocomposite-modified Electrodes: Enhanced Charge Transport and Bioactivity Maximization

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

Location: Room 210 (Floor P1)

Chair: Marc Koper, Jacek Lipkowski

09:10 to 09:30

Gary Attard (Cardiff University, Cardiff, United Kingdom)
Electrochemical approaches to elucidating mechanism in heterogeneous catalysis

09:30 to 09:50 *Invited*

Kingo Itaya (Tohoku University WPI, Department of Applied Chemistry, Sendai, Japan)
Atomic Aspects of Site-selective Anodic Dissolution of Metals and Semiconductors

09:50 to 10:10 *Invited*

Brian Hayden (School of Chemistry, Southampton, United Kingdom)

Particle Size and Support Effects in Electrocatalysis

10:10 to 10:50 *Keynote*

Ezequiel Leiva (Unidad de Matemática y Física, INFIQC, Córdoba, Argentina), Sergio Dassie, Marcelo Mariscal, Jimena Olmos, Patricio Velez

When do nanowires break? A model for the theoretical study of the long-term stability of monoatomic nanowires

10:50 to 11:10

Coffee Break

11:10 to 11:50 *Keynote*

Bruno Pettinger (Dept. of Physical Chemistry, Fritz Haber Institute of the Max Planck Society, Berlin, Germany), Katrin F. Domke, Jens Steidtner, Dai Zhang

Tip-enhanced Raman spectroscopy at interfaces

11:50 to 12:10

Akiyoshi Kuzume (Department of Chemistry Faculty of Science and Technology, Yokohama, Japan), Masatoki Ito, Yosuke Mochiduki, Tetsuyuki Tsuchida

Methanol oxidation on Pt-O/OH surface

12:10 to 12:30

R. Jürgen Behm (Institute of Surface Chemistry and CatalysisUlm University, Ulm, Germany), Luis Colmenares, Hans Fredriksson, Jürgen Fuhrmann, Per Hanarp, Ekkehard Holzbecher, Zenonas Jusys, Bengt Kasemo, Rakel Lindström, Anja Schneider, Yvonne Seidel, Bjorn Wickman, Hong Zhao

Mesoscopic Transport Effects in Electrocatalytic Reactions

12:30 to 12:50

Dimitri Khoshtariya (Institute of Molecular Biology and Biophysics, Tbilisi, Georgia), Tina Dolidze, Peter Illner, Rudi van Eldik

Nonadiabacity, Dynamical Arrest, and Frictional Control of Heterogeneous Electron Transfer at Au/SAM/RTIL Junctions

Symposium 3: Electroanalytical Chemistry at the Nanoscale

Location: Room 211 (Floor P1)

Chair: György Inzelt, Hasuck Kim, Richard Compton

09:10 to 09:30

Salvatore Daniele (Physical Chemistry, University of Venice, Venice, Italy), M. Antonietta Baldo, Dario Battistel, Carlo Bragato, Rosalba Gerbasi

Characterisation of Pt/ti0$_2$ And Pt/al$_2$0$_3$ Thin Films And Nanocomposites for Electrochemical Sensors Applications

09:30 to 09:50 *Invited*

Maria Encarnacion Lorenzo (Quimica Analitica, Madrid, Spain), Elena Casero, Tania Garcia, Jaime Martin-Benito, Felix Pariente, Monica Revenga-Parra, Luis Vazquez

Gold nanoparticles based architectures as a new route to improve the analytical properties of DNA-Sensing electrochemical systems.

09:50 to 10:30 *Keynote*

Damien Arrigan (Tyndall National Institute, Cork, Ireland)

Development of nanoscale electrochemical devices for bioanalytical systems

10:30 to 10:50 *Invited*

Marcin Opallo (Institute of Physical Chemistry PAS, Warsaw, Poland), Laurent Gaillon, Adam Lesniewski, Joanna Niedziolka, Cecile Rizzi, Katarzyna Szot

Electrodes modified with ionic liquid covalently bonded to sol-gel processed silicate

10:50 to 11:10 **Coffee Break**

11:10 to 11:30 *Invited*

Virginia Ruiz (Dept. of Engineering Physics, Helsinki University of Technology, Espoo, Finland), Alvaro Colina, Aranzazu Heras, Esko I. Kauppinen, Jesus Lopez-Palacios, Bernadette M. Quinn

In-situ Absorption Spectroscopy for the study of dynamic electrochemical processes in nanomaterials

11:30 to 11:50

Laurent Thouin (Ecole Normale Superieure, Chemistry Department, UMR CNRS 8640, Paris, France), Christian Amatore, Nicolas Da Mota, Célia Lemmer, Catherine Sella

Amperometric Detection for Microfluidic Analytical Chips

11:50 to 12:10 *Invited*

Munetaka Oyama (Graduate School of Engineering, Kyoto University, Kyoto, Japan), Akiko Orimo

Attachment of Gold Nanoparticles on Indium Tin Oxide Electrodes using Linker Molecules

12:10 to 12:30

Claudia Baier (Technische Universität München, Department of Physics E19, Garching, Germany), Ulrich Stimming

Combined Electrochemical Scanning Tunneling Microscopy (EC-STM), Scanning Electrochemical Potential Microscopy (SECPM) Study of Electrode Surfaces

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers

Location: Room 209 (Floor P1)

Chair: Ole Hammerich, Daniel Little

09:10 to 09:50 *Keynote*

Daniel Little (Chemistry & Biochemistry, Santa Barbara, USA), Young Sam Park

Rearrangements of cation radicals; application to total synthesis

09:50 to 10:10 *Invited*

Jean Lessard (Département de chimie, Université de Sherbrooke, Sherbrooke, Canada), Jean Marc Chapuzet, Cecilia Cistea, Frédéric Couture-Martin, Alireza Sardashti

Electroreduction of nitrocyclopropanes and nitroaryl cyclopropanes

10:10 to 10:30 *Invited*

Michael Schmittel (Center of Micro and Nanochemistry and Technology, Department of Chemistry, Universität Siegen, Siegen, Germany), Rochus Breuer

Forget Ferrocene for Applications in Aqueous Media!

10:30 to 10:50

Armando Gennaro (Dept. Chemical Sciences, Padova, Italy), Abdirisak Ahmed Isse, Christian Durante, Silvia Gottardello

Electrocatalysis at metal cathodes and dissociative electron transfer mechanisms

10:50 to 11:10

Coffee Break

11:10 to 11:30

Leif Nyholm (Uppsala University, Department of Materials Chemistry, Uppsala, Sweden), Per Sjöberg, Camilla Zettersten

Electrochemistry coupled to Electrospray Mass Spectrometry for the study of the Oxidation of 4-Chloroaniline

11:30 to 11:50

Elisabet Dunach (CNRS, University of Nice-Sophia Antipolis, Nice, France), Julien Godeau, Sandra Olivero, Christine Pintaric

Synthesis of Allyl- and Benzylboronic Acids and Esters by a Simple Electrochemical Methodology

11:50 to 12:10

James Y. Becker (Chemistry Department, Beer Sheva, Israel)
Anodic C-Si Bond Cleavage in $ArSiH_3$ and $ArSi(OEt)_3$ Derivatives

12:10 to 12:30 *Invited*

Patrizia Romana Mussini (Department of Physical Chemistry and Electrochemistry, University of Milano, Milano, Italy), Alberto Bossi, Emanuela Licandro, Stefano Maiorana
Electrochemical Activity of Thiahelicenes: Structure Effects and Electropolymerization Ability

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

Location: Room 007 (Floor PB)

Chair: Carlos M. Muller, Toribio Fernández Otero

09:10 to 09:30

Elisabeth Chassaing (Institute of R&D on Photovoltaic Energy (EDF-CNRS-ENSCP), Chatou, France)
Electrocrystallization mechanism of Cu-In-Se compounds for solar cell applications

09:30 to 09:50

John Stickney (Department of Chemistry, Athens, USA)
Electrochemical Atomic Layer Deposition

09:50 to 10:10

Sixto Giménez (Departamento de Física, Universidad Jaime I de Castellón, Castellón de la Plana, Spain), Eva M. Barea, Juan Bisquert, Francisco Fabregat-Santiago, Roberto Gómez, Teresa Lana-Villareal, Lourdes Márquez, Thomas Moehl, Iván Mora-Seró
Processing and electrochemical characterization of CdSe quantum dot sensitized solar cells

10:10 to 10:30

Anusorn Kongkanand (Fuel Cell Activities, Honeoye Falls, USA), Prashant Kamat, Masaru Kuno, Kensuke Takechi, Kevin Tvrdy
Improved Light Energy Conversion with Finely Tuned Quantum Dot Solar Cell

10:30 to 10:50

Derck Schlettwein (Institute of Applied Physics, Justus-Liebig-University Gießen, Gießen, Germany), Andreas Hastall, Thomas Loewenstein, Markus Mingebach, Andreas Neudeck, Yvonne Zimmermann
Textiles as Substrate Electrodes for Electrodeposited ZnO- a New Pathway to Textile-Based Photovoltaics

10:50 to 11:10

Coffee Break

11:10 to 11:50 *Keynote*

Claude Lévy-Clément (ICMPE/CNRS, Thiais, France)
Electrochemical Deposition of Semiconductor Thin films For Photovoltaic Applications

11:50 to 12:10

Thierry Pauporté (LECA-ENSCP, Paris cedex 05, France), Daniel Lincot
Mesoporous ZnO thin films prepared by Dye-Assisted Electrodeposition - Application dye sensitized solar cells.

12:10 to 12:30

Patrik Schmuki (Dept. for Materials Science, University of Erlangen, Erlangen, Germany)
TiO_2 Nanolace: A new Generation of Self-ordered Porous Titania

12:30 to 12:50

Josef Wendrinsky (ECHEM Centre of Competence in Applied Electrochemistry, Wiener Neustadt, Austria), Norica Godja, Nikolett Kiss, Christine Löcker, Gerhard E. Nauer, Andreas Schindel
Spark Discharge Anodization as a Pretreament Method For Corrosion-protection, Bonding and Coating Processes

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications

Location: Room 212 (Floor P1)

Chair: Hisasi Takenouti, Suzanne Joiret

09:10 to 09:30 *Invited*

Liana Maria Muresan ("Babes-Bolyai" University, Department of Physical Chemistry, Cluj-Napoca, Romania), Hisasi Takenouti, Simona Varvara

Effect of some non-toxic inhibitors on the corrosion of bronze and on the patina of bronze artefacts

09:30 to 09:50

Rimantas Ramanauskas (Metal electrochemistry Department, Institute of Chemistry, Vilnius, Lithuania), Laima Gudaviciute, Aleksandr Kosenko, Olga Scit

Structural and Corrosion Characterization of Nanostructured Zn Alloy Coatings

09:50 to 10:30 *Keynote*

Hisasi Takenouti (LISE - CNRS, Ivry sur Seine, France), Najat Hajjaji, Kamal Rahmouni, Abdellah Srhiri

Protection of archaeological bronze by triazole derivatives

10:30 to 10:50

Belen Bello Rodriguez (META/MACH Vrije Universiteit Brussel, Brussels, Belgium), Bernhard Kernig, Arjan Mol, Herman Terryn

Electrochemical characterization of the corrosion and passivation properties of defects present in the sub-surface of aluminium alloys

10:50 to 11:10

Coffee Break

11:10 to 11:30

David Duday (Département de Science et Analyse des Matériaux, Centre de Recherche Public Gabriel Lippmann, Belvaux, Luxembourg), Chems-Eddine Barchiche, Juliano Borges, Patrick Choquet, Emmanuel Rocca

Corrosion resistance of copper treated by carboxylatation and/or atmospheric plasma

11:30 to 11:50

Maria João Correia (LNEC, Lisbon, Portugal), Inês Fonseca, Maria Manuela Salta

Corrosion Resistance and Passive Film Characteristics of Austenitic Stainless Steel Alloys in Alkaline Solution

11:50 to 12:10

Bernard Tribollet (LISE, UPR 15 du CNRS, Paris cedex 05, France), Christine Blanc, Nadine Pebere, Vincent Vivier

Corrosion of Copper-Aluminium System in Thin-Layer Cell

12:10 to 12:30

Quentin Van Overmeere (Division of Materials and Process Engineering, Université catholique de Louvain, Louvain-la-Neuve, Belgium), Jean-Francois Vanhumbeeck, Joris Proost

In-situ investigation of the relationship between electrical and mechanical properties during the growth of anodic oxide films

12:30 to 12:50

Sandro Cattarin (IENI - CNR, Padova, Italy), Nicola Comisso, Marco Musiani, Bernard Tribollet

Impedance of Valve Metals Covered by Passive Films of Graded Local Thickness

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes

Location: Room 214 (Floor P1)

Chair: Constantinos Vayenas, Pietro Cavallotti

09:10 to 09:30

Yoshio Takasu (Department of Fine Materials Engineering, Shinshu University, Ueda, Japan), Tatsuya Ohashi

Catalytic Roughening of Surface Layers of BDD for Various Applications

09:30 to 09:50

Raul Berenguer (Departamento de Química Física e Instituto Universitario de Materiales de Alicante, Alicante, Spain), Antonio Benito Fuertes, Emilia Morallón, César Quijada, Teresa Valdés-Solís

Phenol oxidation on nanostructured Co_3O_4 electrodes prepared by different methods

09:50 to 10:10

Sönke Schmachtel (Helsinki University of Technology, Espoo, Finland), Kyösti Kontturi

Physicochemical processes at composite electrodes used for oxygen evolution reaction in metal electrowinning

10:10 to 10:30

Heidi Van Parys (Vrije Universiteit Brussel, Brussels, Belgium), Johan Deconinck, Annick Hubin, Thomas Nierhaus, Philippe Planquart, Flora Tomasoni

Contribution to the two-phase modeling of gas evolution reactions

10:30 to 10:50

Onofrio Scialdone (Dipartimento di Ingeneria Chimica dei Processi e dei Materiali, Palermo, Italy)

Electrochemical incineration of oxalic acid in the presence of NaCl

10:50 to 11:10

Coffee Break

11:10 to 11:30

Daniel Bélanger (Chimie, Montréal, Canada), Oleg Brylev, Ouassim Ghodbane, David Reyter, Mathieu Sarrazin

Electrode Materials for Reduction of Nitrate

11:30 to 11:50

Sandra Rondinini (Department of Physical Chemistry and Electrochemistry, The University of Milan, Milano, Italy), Silvia Ardizzone, Allen J Bard, Giuseppe Cappelletti, Alessandro Minguzzi, Alberto Vertova

Oxygen evolution electrocatalysts: innovative synthetic paths and investigation methodologies

11:50 to 12:30 *Keynote*

Sergio Trasatti (Department of Physical Chemistry and Electrochemistry, University of Milan, Milan, Italy)

Water Electrolysis: Variables of Process

12:30 to 12:50

Maria José Pacheco (Department of Chemistry, University of Beira Interior, Covilhã, Portugal), Ana Lopes, Viviana Santos, Amélia Rute Santos

Electrochemical degradation of aromatic amines using a BDD anode

Symposium 8: Electrochemical Energy Conversion and Storage

Main Theatre (Salón de Actos, Floor PB)

Chair: Guenther Scherer, Edson Ticianelli

09:10 to 09:30 *Invited*

Minoru Inaba (Department of Molecular Science and Technology, Faculty of Eng., Doshisha University, Kyotanabe, Japan), Koichi Matsuzawa, Akimasa Tasaka, Hirohisa Yamada

Recent Developments and Future Prospects of Platinum Electrocatalyst for Fuel Cell Applications

09:30 to 09:50 *Invited*

Andrea E. Russell (School of Chemistry, University of Southampton, Southampton, United Kingdom)

Synchrotron characterization of electrocatalytic materials

09:50 to 10:30 *Keynote*

Radoslav Adzic (Brookhaven National Laboratory, New York, USA)

Some Recent Advances and Existing Challenges in Electrocatalysis of the O_2 Reduction Reaction

10:30 to 10:50

Masahiro Watanabe (Clean Energy Research Center/University of Yamanashi, Kofu, Japan), Hiroyuki Uchida, Hiroshi Yano

Activity & Stability of $PtCo_X$/CB Prepared by Nanocapsule Method for Oxygen Reduction

10:50 to 11:10

Coffee Break

11:10 to 11:30

Swathy Swathirajan (Fuel Cell Research Lab, General Motors Reseach and Development Center, Warren, USA), Frederick Wagner

Durability and Platinum Thrifting Studies of Catalysts in PEM Fuel Cells

11:30 to 11:50

Frédéric Jaouen (INRS-EMT, Varennes, Canada), Jean-Pol Dodelet

A Model for the O_2 Reduction on Non-noble Catalysts: 2e Reduction Followed by Chemical Decomposition of H_2O_2

11:50 to 12:10 *Invited*

Carlos Raul Cabrera (Department of Chemistry, University of Puerto Rico, San Juan, Puerto Rico), Luis Echegoyen, Yasuyuki Ishikawa, Amit Palkar, Diana Santiago

Electrochemical Preparation of PtRu Nanoparticles at Carbon Support Material using a Rotating Disk Slurry Electrode (RoDSE) Technique

12:10 to 12:30 *Invited*

Pei Kang Shen (School of Physics and Engineering, Sun Yat-Sen University, Guangzhou, China)

Recent progress in the understanding of alcohol oxidation for fuel cell applications

Symposium 9: Micropowered Devices: Energy Harvest, Storage and Conversion

Location: Room 213 (Floor P1)

Chair: Daniel A. Scherson

09:10 to 09:50 *Keynote*

Emanuel Peled (School of Chemistry Tel Aviv University, Tel Aviv, Israel), Katy Friedman, Diana Golodnitsky, Svetlana Menkin, Menachem Nathan, Tania Ripenbein, Inna Shekhtman, Ela Strauss, Vladimir Yufit

D-Microbatteries for Medical and Technological Applications

09:50 to 10:10 *Invited*

Kyoung-Shin Choi (Department of Chemistry, Purdue University, West Lafayette, USA)

Morphology-Dependent Electrochemical and Photoelectrochemical Properties of Inorganic Electrodes

10:10 to 10:30

Sophie Tintignac (CNRS/CEA, Grenoble, France)

Optimized $LiCoO_2$ thin films prepared by rf magnetron sputtering as positive electrodes for all-solid-state microbatteries

10:30 to 10:50

Kiyoshi Kanamura (Department of Applied Chemistry, Tokyo Metropolitan University, Tokyo, Japan), Kaoru Dokko, Masaki Matsui, Takayuki Mine, Midori Segawa

***In situ* FTIR Analysis of Decomposition of Organic Electrolytes for Lithium Batteries**

10:50 to 11:10

Coffee Break

11:10 to 11:50 *Keynote*

Patrice Simon (Universté Paul Sabatier, Toulouse, France), Pierre Louis Taberna

Nanostructured Electrodes for Energy Storage Applications

Symposium 10: General Session

Location: Room 215 (Floor P1)

Chair: C. Gutierrez, A. Lasia

09:50 to 10:10 *Invited*

Janaína Souza-Garcia (Instituto de Química de São Carlos, Universidade de São Paulo, São Carlos, Brazil), Antonio Berná, Victor Climent, Juan Feliu, Edson Ticianelli

Electrochemical Properties of Palladium Adlayers on Pt(110) Substrates

10:10 to 10:30

Joaquín Arias-Pardilla (Departamento de Química Física and Instituto Universitario de MaterialesUniversidad de Alicante, Alicante, Spain), Jospeh Manuel Calo, Diego Cazorla-Amorós, Emilia Morallón

Arsenic species interactions on porous carbon electrode determined by electrochemical quartz crystal

10:30 to 10:50

Bozena Losiewicz (Institute of Materials Science, University of Silesia, Katowice, Poland), Rafal Jurczakowski, Andrzej Lasia

Kinetics and Thermodynamics of Hydrogen UPD on Rhodium in Acid Solutions

10:50 to 11:10

Coffee Break

11:10 to 11:30

Rafal Jurczakowski (University of Warsaw, Warsaw, Poland), Bozena Losiewicz

Kinetics and Thermodynamics of Hydrogen UPD on Iridium in Perchloric and Sulfuric Acids

11:30 to 11:50

Mathieu Gibilaro (Laboratoire de Génie Chimique, Toulouse, France), Pierre Chamelot, Laurent Massot, Pierre Taxil

Study of Aluminium-Lanthanide Extraction in Molten Fluorides by Electrochemical Co-Reduction

11:50 to 12:10

Marc Anderson (UW-Madison, Madison, USA), Kevin Leonard

Asymmetric Porous Oxide Electrolyte Membrane Ultracapacitive Water Treatment

12:10 to 12:30

Isabelle Vandendael (Vrije Universiteit Brussel, Department Metallurgy, Electrochemistry and Materials Science, Brussels, Belgium), Johan Deconinck, Annick Hubin, Bernhard Mollay, Gabriela Telias, Heidi Van Parys

Contribution of FE-AES to the Mechanistic Modeling of a Metal Deposition Reaction with Simultaneous Hydrogen Evolution

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells

Salón de Grados (Floor PA)

Chair: Mamantos Prodromidis, Fred Lisdat

16:10 to 16:50 *Keynote*

Frieder W. Scheller (University of Potsdam, Department of Analytical Biochemistry, Potsdam-Golm, Germany), Fred Lisdat, Dorothea Pfeiffer, Roberto Spricigo, Ulla Wollenberger

Renaissance of Electrochemical Sensors

16:50 to 17:10

Coffee Break

17:10 to 17:30 *Invited*

Mamantos Prodromidis (Department of Chemistry, University of Ioannina, Ioannina, Greece), Antonios Pournaras

Development of Impedimetric Immunosensors for the Direct Detection of Salmonella typhimurium in Untreated Cultures of Standard and Real Samples

17:30 to 17:50

Susana Cordoba de Torresi (Instituto de Quimica, Universidade de São Paulo, São Paulo, Brazil), Suelem Takahashi

Direct electrochemistry of Cytochrome C by conducting polymer functionalyzation. The use in NO detection

17:50 to 18:10

María Pedrero (Dto. Química Analítica, Facultad Cc. Químicas, Universidad Complutense de Madrid, Madrid, Spain), Susana Campuzano, Óscar A. Loaiza, José M. Pingarrón

Disposable DNA Sensor Based on the Immobilization of Biotinylated Enterobacteriaceae lac z Gene probes onto Avidin-DTSP-Self Assembled Monolayer Modified Gold Electrodes

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

Location: Room 210 (Floor P1)

Chair: Wolfgang Schmickler

16:10 to 16:50 *Keynote*

Cyrille Costentin (Laboratoire d'Electrochimie Moléculaire, Université Paris - Diderot, Paris, France), Marc Robert, Jean-Michel Savéant

Electrochemical Approach to Concerted Proton-Electron Transfers

16:50 to 17:10

Coffee Break

17:10 to 17:50 *Keynote*

Wandlowski Thomas (University of Berne, Department of Chemistry and Biochemistry, Berne, Switzerland), Thomas Wandlowski

Charge Transport with Single Molecules - An Electrochemical Approach

17:50 to 18:10 *Invited*

Marshall Newton (Brookhaven National Laboratory, Upton, USA)

Electron Transfer at Film-modified Metal Electrodes: Mechanistic Analysis Based on Calculated Electronic Structure and Energetics

Symposium 3: Electroanalytical Chemistry at the Nanoscale

Location: Room 211 (Floor P1)

Chair: Salvatore Daniele, Munetaka Oyama

16:10 to 16:30

Shen-Ming Chen (Department of Chemical Engineering and Biotechnology, National Taipei University of Technology, Taipei, Taiwan), Soundappan Thiagarajan, Umasankar Yogeswaran

MWCNTs and metal nanoparticles with nafion and HPâCD composites for the simultaneous determination of neurotransmitters with ascorbic acid and nucleotide bases

16:30 to 16:50 *Invited*

Chee-Seng Toh (Department of Chemistry, National University of Singapore, Singapore, Singapore)

Development of an integrated separation-sensing membrane-based electroanalytical system

16:50 to 17:10

Coffee Break

17:10 to 17:50 *Keynote*

Joseph Wang (Biodesign Institute, ASU, Tempe, USA)

Nanomaterial-Based Bioelectronic Devices

17:45 to 18:10

Sophie Griveau (Chemical and Genetical Pharmacology Laboratory, INSERM, U640, CNRS, UMR 8151, Paris, France), Fethi Bedioui, Silvia Gutierrez Grenados, Ana Porras Gutierrez, Cyrille Richard

Stable Immobilization of Carbon Nanotubes on Conductive Surfaces by Electrochemical Means for Electroanalytical Purposes

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers

Location: Room 209 (Floor P1)

Chair: James Y. Becker, Michael Schmittel

16:10 to 16:30

Ole Hammerich (Department of Chemistry, University of Copenhagen, Copenhagen, Denmark), Jørn B. Christensen, Thomas Hansen, Asbjørn Thorvildsen

The Structural Changes Resulting from One-Electron Oxidation of 1,4-Phenylenediamines and Low-Generation PAMAM Dendrimers with a 1,4-Phenylenediamine Core

16:30 to 16:50 *Invited*

Martine Largeron (UMR 8638 CNRS-Université Paris Descartes, Synthèse et Structure de Molécules d'Intérêt Pharmacologique, Paris cedex 06, France)

A One-pot Chemoselective Synthesis of Secondary Amines by Using a Biomimetic Electrocatalytic System

16:50 to 17:10

Coffee Break

17:10 to 17:50 *Keynote*

Bernd Speiser (Institut für Organische Chemie, Universität Tübingen, Tübingen, Germany)

To Invert or Not to Invert - Reasons for the Occurrence of Normal and Inverted Formal Potentials in Molecular Multi-Electron Transfer Systems

17:50 to 18:10

Andrew Doherty (School of Chemistry and Chemical Engineering, Queen's University of Belfast, Belfast, United Kingdom), Rachid Barhdadi, Clement Comminges, Jean - Yves Nedelec, Sarah O' Toole, Michel Troupel

Mechanism of TEMPO Mediated Oxidation of Alcohols in Ionic Liquid

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

Location: Room 007 (Floor PB)

Chair: Daniel Lincot, Patrick Schmuki

16:10 to 16:50 *Keynote*

Tsukasa Yoshida (Gifu University, Gifu, Japan), Yoshiya Fujishita, Kazumasa Funabiki, Miura Hidetoshi, Masaki Matsui

Electrodeposition of Porous Crystalline ZnO Hybrid Thin Films for High Performance Plastic Solar Cells

16:50 to 17:10

Coffee Break

17:10 to 17:30

Bernabé Marí Soucase (IDF-DFA Universitat Politècnica de València, València, Spain), Rosa Casasus, Jesús Cembrero, Hai Ning Cui, Miguel Mollar

Tailoring the morphology of electrodeposited ZnO

17:30 to 17:50

Torsten Oekermann (Institute of Physical Chemistry and Electrochemistry, Leibniz University Hannover, Hannover, Germany), Yusuke Okuma, Tsukasa Yoshida

How can the performance of electrodeposited porous ZnO films in dye-sensitized solar cells be improved ? - An investigation by electrochemical impedance spectroscopy

17:50 to 18:10

Carl- Albrecht Schiller (ZAHNER-elektrik, Kronach, Germany), Patrick Schmuki

Dynamic EIS- and Photo-Electrochemical Measurements on TiO_2-Nanotube Based Photo-Anodes for Dye Sensitised Solar Cells - the Influence of the Annealing Temperature

Symposium 5b: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

Location: Room 107 (Floor E1)

Chair: Derck Schlettwein, Josef Wendrinsky

17:10 to 17:30

A Fernando Silva (Departamento Química, Faculdade de Ciências da Universidade do Porto, Porto, Portugal), Marta Figueiredo, Cristiana Gomes, Renata Costa, Ana Martins, C. M. Pereira

The structure of the Ionic Liquid /electrode interface

17:30 to 17:50

Ciara K. O' Sullivan (Department of Chemical Engineering, Universitat Rovira i Virgili, Tarragona, Spain), Laia Civit, Alex Fragoso, Hossam Nassef

Amperometric sensing of ascorbate using a disposable screen printed electrode modified with electrografted o-aminophenol film

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications

Location: Room 212 (Floor P1)

Chair: Suzanne Joiret, Hisasi Takenouti

16:10 to 16:30

Nadine Pebere (CIRIMAT, UMR CNRS 5085, Toulouse, France), Christine Blanc, Loïc Lacroix, Bernard Tribollet

Local Electrochemical Measurements on Aluminium-Magnesium systems

16:30 to 16:50

Hercilio Gomes de Melo (Polytechnic School of the University of Sao Paulo, Sao Paulo, Brazil), Isolda Costa, Marina Magnani, Fernanda M. Queiroz

Microstructural Investigation and Corrosion Behaviour of AA 2024-T3 in Low Concentrated Chloride Media

16:50 to 17:10

Coffee Break

17:10 to 17:50 *Keynote*

Suzanne Joiret (LISE-UPR15 du CNRS, Paris, France)

Understanding corrosion of ancient bronzes for the conservation of cultural heritage

17:50 to 18:10

Martin Bojinov (Department of Physical Chemistry, University of Chemical Technology and Metallurgy, Sofia, Bulgaria), Iva Betova, Petri Kinnunen, Klas Lundgren, Timo Saario

A kinetic model of the oxide growth and restructuring on structural materials in nuclear power plants

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes

Location: Room 214 (Floor P1)

Chair: Yunni Meas, Claude Deslouis

16:10 to 16:30

Leonard Stoica (Analytische Chemie, Elektroanalytik & Sensorik, Ruhr-Universität Bochum, Bochum, Germany), Michael Bron, Kathrin Eckhard, Thomas Erichsen, Melanie Manjura, Sandra Schmidt, Wolfgang Schuhmann

Electrochemical characterisation of Ag-based catalysts with respect to oxygen reduction in alkaline solution

16:30 to 16:50

John Gustavsson (Applied electrochemistry, KTH, Stockholm, Sweden), Ann Cornell, Linda Nylén

In situ formed rare earth metal hydroxide films as potential alternative to chromate in the chlorate process

16:50 to 17:10

Coffee Break

17:10 to 17:50 *Keynote*

Masatsugu Morimitsu (Department of Environmental Systems Science, Doshisha University, Kyo-tanabe, Japan), Aya Okazaki

Electrocatalysis of IrO_2-Ta_2O_5/Ti Electrodes for Hydrogen Peroxide Oxidation in Neutral Buffer Solution

Symposium 8: Electrochemical Energy Conversion and Storage

Location: Main Theatre (Salón de Actos, Floor PB)

Chair: Minoru Inaba

16:10 to 16:50 *Keynote*

Edson A. Ticianelli (Instituto de Quimica de Sao Carlos, USP, São Carlos, Brazil), Amanda C. Garcia, Pietro P. Lopes

Noble and Non Noble Metal Electrocatalysts for Low Temperature Fuel Cells

16:50 to 17:10

Coffee Break

17:10 to 17:30

Sotirios Sotiropoulos (Chemistry Department, Aristotle University of Thessaloniki, Greece, Thessaloniki, Greece), Stephan Armyanov, Viacheslav Barsukov, Volodimir Khomenko, Georgios Kokkinidis, Konstantin Likhnitsky, Sofia Papadimitriou, Andromahi Tegou, Eugenia Valova

Pt and Au shell –bimetallic Pt-M and Au-M core electrocatalysts prepared by electroless exchange of M (M: Pb, Cu, Fe, Co, Ni) by Pt and Au

17:30 to 17:50

Otávio Brandão Alves (Institute of Surface Chemistry and Catalysis, Ulm University, Ulm, Germany), R. Juergen Behm, Harry E. Hoster

Electrochemical Oxygen Reduction at Pseudomorphic Pt Thin Films on Ru(0001)

Symposium 9: Micropowered Devices: Energy Harvest, Storage and Conversion

Location: Room 213 (Floor P1)

Chair: Bruce Dunn

16:10 to 16:50 *Keynote*

Debra Rolison (Surface Chemistry Branch, Naval Research Laboratory, Washington, USA), Megan Bourg, Anne Fischer, Jeffrey Long, Justin Lytle, Katherine Pettigrew

Architectural Design, 1D Walls, 3D Plumbing, and Interior Design en route to Multifunctional Nanoarchitectures for Energy Storage and Conversion

16:50 to 17:10

Coffee Break

17:10 to 17:30

Renata Bilewicz (Department of Chemistry, University of Warsaw, Warsaw, Poland), Grazyna Ginalska, Ewa Nazaruk, Krzysztof Stolarczyk

Nanostructured Carbon Electrodes for Bioelectrochemical Devices

17:30 to 17:50

Bernhard Seyfang (Paul Scherrer Institut, Electrochemistry Laboratory, Villigen PSI, Switzerland), Pierre Boillat, Thomas Lippert, Guenther G. Scherrer, Alexander Wokaun

Liquid Water in Micro Polymer Electrolyte Fuel Cells Not Containing a Gas Diffusion Layer

Symposium 10: General Session

Location: Room 215 (Floor P1)

Chair: V. Climent, K. Yliniemi

16:10 to 16:30

Tomota Nagaura (Nano Ceramics Center, National Institute for Materials Science, Tsukuba, Japan), Satoru Inoue, Futoshi Takeuchi, Kenji Wada

Fabrication of Ordered Au and Ni Nanocones with 100 nm Cone Intervals Using a Porous Anodic Alumina Film

16:30 to 16:50

Ichiro Koiwa (Department of Applied Material and Life Science, Faculty of Engineering, Kanto Gakuin University, Yokohama-shi, Japan), Yuki Haijima, Tatsuma Kaneda, Kouichi Sono, Takashi Takahashi

Fabrication of Photo-Mask by Electroless Ni-P Plating and Ectching on Glass Substrate

16:50 to 17:10

Coffee Break

17:10 to 17:30

Carla Regina Costa (Chemistry Department, Faculty of Philosophy, Sciences and Languages of Ribeirão Preto University of São Paulo, Ribeirão Preto, Brazil), Paulo Olivi

Effect of chloride concentration on the electrochemical degradation of polyphenolic compounds in tannery wastewater

Tuesday 9 September 2008

9:00-10:00	Plenary lecture: Professor Christian Amatore - Main Theatre (Salón de Actos)										
	S1	**S2**	**S3**	**S4**	**S5**	**S6**	**S7**	**S8**	**S8-B**	**S9**	**S10**
	Salón de Grados	**Room 210**	**Room 211**	**Room 209**	**Room 007**	**Room 212**	**Room 214**	**Salón de Actos**	**Room 107**	**Room 213**	**Room 215**
10:10-10:30	D.M. Soares	K. Vincent	H. Kim	A. Lundin	K. Kaneto	C. Pérez	C. Georges	P. Boillat	Chi-Chang Hu	A. Heller	
10:30-10:50	A. Nelson		G. Denuault	M.J. Medeiros		V. Vignal	C. Ponce-de-León	H. Wang	P. Ruch		
10:50-11:10	T. Laredo	J. Zhang	K. Toth	J. Zagal	E. Ochoteco	F. Huet	C. Deslouis	M.A. Navarra	W. Sugimoto	D. Scherson	I. Sirés Sadornil
11:10-11:30	Coffee Break										
11:30-11:50	S. Roscoe	A. Cuesta	Y. Jingxian	J. Simpson	Z. Stojek	C. Fenster	G. Kelsall	A. Kulikovsky	P. Staiti	J. Thomas	C.Sáez
11:50-12:10		S.G. Sun	K. Adams		C. Kvarnstrom	A. Pérez Ceballos		E. Cairns	J.K. Lee		C. Ania
12:10-12:30	D. Matyszewska	V. Climent	D. Mandler	J. Ludvik	G.A. Sotzing	K. Ogle	L. Vázquez G.	P.J. Kulesza	E. Frackowiak	J. Harb	C. Jiménez
12:30-12:50	J. Gooding	E. Santos		O. Smila-Castro	M. C. Romero		I. Yamanaka	Z. Ogumi		B. Dunn	K. Mayrhofer
12:50-13:10	A. Wieckowska	J. Rossmeisl	L.M. Moretto			K. Fushimi	A. Tasaka	R. Jamard	M. Toyoda		O. Lemaire

Lunch

14:30-15:10	Poster session / coffee **Symposiums S1, S2, S3, S4 & S5**										
15:10-15:30	P. Vadgama	N. Markovic	A. Karyakin	D. Posadas	K. Nielsh						
15:30-15:50			G. Inzelt	A.L. Teillout			L. Ferreira	A.S. Arico	S. Lipka	L. Milner	
15:50-16:10	F. Mansfeld	F.J. Vidal-Iglesias	T. Matsue	A. Deronzier	D. Wei	K. Hebert	A.F. Gullá	M. Mogensen	J.M. Rojo	G. Amatucci	Z. Samec
16:10-16:30	T.D. Chung	G. García			L. Peter				M. Mastragostino	Y. Shao-Horn	X. Wang
16:30-16:50	Coffee Break										
16:50-17:10	G. Palleschi	Y. Morikawa	F. Miomandre	V. Grinberg	C. Arnould	I.V. Aoki	R. Amadelli	E. Wright	K. Bum Kim	P.H.L. Notten	M. Chotkowski
17:10-17:30	W. Schuhmann	M. Neurock	G. Ferrari	A. Molina	P. Cojocaru	R. Stadler	B. Innocent	H. Yang			F. Strixino
17:30-17:50			M. Pita	R. Hernández	R. Dryfe	M. G. Rubio	P. Krtil	A.A. Franco	S.G. Park	D. Harrington	
17:50-18:10										Y. Kikuchi	
18:10-19:50	Poster session / Exhibitors reception **Symposiums S1, S2, S3, S4 & S5**										

19:50	Posters take-down

Tuesday 9 September 2008

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells

Salón de Grados (Floor PA)

Chair: J. Justin Gooding, Andrew Nelson

10:10 to 10:30

David Mendez Soares (Instituto de Fisica / UNICAMP, Campinas, Brazil), Wyllerson Evaristo Gomes, Andreza Barbosa Gomide, Elizabeth Fatima de Souza, Mario Alberto Tenan

Hydrophobic Interactions between Chloroform and SDSSelf-Assembled Monolayers on Gold

10:30 to 10:50 *Invited*

Andrew Nelson (SOMS/University of Leeds, Leeds, United Kingdom), David Adams, Andrew Brown, Steven Milne

Biological Activity of Nanoparticles Related to their Functionality

10:50 to 11:10

Thamara Laredo (Department of Chemistry, University of Guelph, Guelph, Canada), John Dutcher, Jean Bernard Fiche, Jacek Lipkowski, Slowomir Sek

Electric field driven conformational changes of Gramicidin D in a model membrane supported on a Au(111) surface

11:10 to 11:30

Coffee Break

11:30 to 12:10 *Keynote*

Sharon Roscoe (Department of Chemistry, Acadia University, Wolfville, Canada), Christa Brosseau, Jacek Lipkowski

Electrochemical and PMIRRAS Studies of Protein Binding to a Model Biomimetic Membrane at Au(111)

12:10 to 12:30

Dorota Matyszewska (Faculty of Chemistry, University of Warsaw, Warsaw, Poland), Renata Bilewicz

Interactions of Perfluorinated Compounds with Model Phospholipid Membranes Transferred onto Gold Electrodes.

12:30 to 12:50 *Invited*

J. Justin Gooding (School of Chemistry, The University of New South Wales, Sydney, Australia), Callie Fairman, Joshua Ginges, J. Justin Gooding, Alicia Gui, Guillaume Le Saux, Guozhen Liu

The Modification of Electrode Surfaces with Aryl Diazonium Salts for Biosensing and Bioelectrochemistry

12:50 to 13:10

Agnieszka Wieckowska (University of Warsaw Faculty of Chemistry, Warsaw, Poland), Ron Gill, Claudio Guidotti, Itamar Willner, Ofer I. Wilner

Probing Kinase Activities by Electrochemistry, Contact Angle and Molecular Force Interactions

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

Location: Room 210 (Floor P1)
Chair: Thomas Wandlowski, Brian Hayden

10:10 to 10:50 *Keynote*
Kylie Vincent (Inorganic Chemistry Laboratory, University of Oxford, Oxford, United Kingdom), Fraser Armstrong, James Cracknell, Baerbel Friedrich, Gabrielle Goldet, Oliver Lenz, Marcus Ludwig, Annemarie Wait
Studying and exploiting selective electrocatalysis of hydrogen cycling by hydrogenase enzymes: protein film voltammetry under precisely controlled gas mixtures

10:50 to 11:10 *Invited*
Jingdong Zhang (Department of Chemistry, Lyngby, Denmark), Jens Ulstrup
Investigation of Electrochemical Self-assembled Monolayers at the Single-Molecule Level of Resolution

11:10 to 11:30
Coffee Break

11:30 to 11:50 *Invited*
Angel Cuesta (Instituto de Química Física "Rocasolano", CSIC, Madrid, Spain)
Cyanide-modified Pt(111) electrodes as model surfaces in electrocatalysis

11:50 to 12:10 *Invited*
Shi-Gang Sun (Chemistry Department, Xiamen University, Xiamen, China), Chun-Jie Fan, Chun-Hua Zhen, Qing-Wei Zheng, Zhi-You Zhou
Active centers in electrocatalysis: structure and reactivity

12:10 to 12:30 *Invited*
Victor Climent (Instituto de Electroquímica, Universidad de Alicante, Alicante, Spain), Juan M. Feliu, Nuria Garcia-Araez, Paramaconi Rodriguez
Thermodynamic Analysis of (Bi)sulphate Adsorption on Pt(111) Electrodes

12:30 to 12:50 *Invited*
Elizabeth Santos (Institut for Theoretical Chemistry, University of Ulm, Ulm, Germany), Kay Pötting, Wolfgang Schmickler
Electrocatalysis at Nanostructured Electrodes: A Unified Model

12:50 to 13:10 *Invited*
Jan Rossmeisl (Center for Atomic-scale Materials Design, Department of Physics, Technical University of Denmark, DK-2800 Lyngby, Denmark, Lyngby, Denmark)
Atomic level descriptors in fuel cell electrocatalysis

Symposium 3: Electroanalytical Chemistry at the Nanoscale

Location: Room 211 (Floor P1)
Chair: Arkady Karyakin, Daniel Mandler, Danny O'Hare

10:10 to 10:30
Hasuck Kim (Seoul National University, Seoul, Korea), Yang Rae Kim, Jung Wook Oh, Hyojoo Seo
Effective Electrogenerated Chemiluminescence by Size Control of Luminophore-doped Silica Nanoparticles

10:30 to 10:50 *Invited*
Guy Denuault (School of Chemistry, University of Southampton, Southampton, United Kingdom), Andy Harris, Matt Mowlem, Robin W. Pascal, Ralf D. Prien, Maciej Sosna, Richard Wilson
Fast microelectrode sensing of oceanic dissolved oxygen

10:50 to 11:10

Klara Toth (Research Group of the Hungarian Academy of Sciences, Budapest University of Technology and Economics, Budapest,, Hungary), Istvan Bitter, Robert Gyurcsanyi, Gyula Jagerszki

Ionophore-based chemical sensors: recent advances towards micro- and nanoscale potentiometry

11:10 to 11:30

Coffee Break

11:30 to 11:50

Yu Jingxian (School of Chemistry, Physics and Earth Sciences, Flinders University, Adelaide, Australia), Adrian Fisher, Yunfeng Gu, Rudolph Le Roux, Sinéad Matthews, Joe Shapter, Kamran Yunus

Integration of enzyme immobilised single-walled carbon nanotube arrays into microchannels for glucose detection

11:50 to 12:10

Kelly Adams (Analytical Chemistry, University of Göteborg, Chemistry/The Pennsylvania State University, Göteborg, Sweden), Ann-Sofie Cans, Daniel Eves, Andrew Ewing, Michael Heien, Bo Zhang

Steady-State Electrochemical Detection of Lipidic Nanotube Diameter Utilizing an Artificial Cell Model

12:10 to 12:50 *Keynote*

Daniel Mandler (Institute of Chemistry, Jerusalem, Israel)

Modification and Characterization of Surfaces with Scanning Electrochemical Microscopy: Applications to Electroanalytical Chemistry?

12:50 to 13:10

Ligia Maria Moretto (Department of Physical Chemistry, University Ca' Foscari of Venice, Venice, Italy), Denis Badocco, Thiago Kohls, Paolo Pastore, Neso Sojic, Paolo Ugo

Langmuir-Blodgett Films of Nafion: Epifluorescence and Electrochemiluminescence Study

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers

Location: Room 209 (Floor P1)

Chair: Jean Lessard, Elisabet Dunach

10:10 to 10:30 *Invited*

Angelica Lundin (Institute für Theoretische Chemie, Universität Ulm, Ulm, Germany), Elisabet Ahlberg, Johan Eriksson, Itai Panas

Quantum Chemical Calculations of Electron Transfer Induced Conformational Changes in Copper Complexes

10:30 to 10:50 *Invited*

Maria Jose Medeiros (University of Minho, Braga, Portugal), X. Chaminade, E. Dunach, Ana Esteves, C.S.S. Neves, S. Olivero

Synthesis of Nitrogen Heterocycles by Radical Electrochemical Approaches in Environmentally Friendly Media

10:50 to 11:10

José Zagal (Departamento de Química de los Materiales, Facultad de Química y Biología, Universidad de Santiago de Chile, Santiago, Chile), Daniela Geraldo, Cristian Linares, Maritza Paez, Mamie Sancy

Tuning the redox properties of Co and Fe macrocyclics for the electrocatalytic oxidation of hydrazine

11:10 to 11:30

Coffee Break

11:30 to 12:10 *Keynote*

Jim Simpson (Department of Chemistry, University of Otago, Dunedin, New Zealand)

Cobalt carbonyl clusters – from electron transfer catalysed reactivity to electroactive polymers.

12:10 to 12:30

Jiri Ludvik (J. Heyrovsky Institute of Physical Chemistry, ASCR, Prague 8, Czech Republic)

Studies of Intramolecular Electronic Interactions in Organic and Coordination Compounds Using Ferrocene-based Probes

12:30 to 12:50

Ornella Smila-Castro (School of Chemistry, University of Birmingham, Birmingham, United Kingdom)

Combined X-ray Absorption Spectroscopy and optical absorption studies of electrochemical intermediates

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

Location: Room 007 (Floor PB)

Chair: Maria Ariza, Evgeny Katz

10:10 to 10:50 *Keynote*

Keiichi Kaneto (LSSE, Kyushu Institute of Technology, Kitakyushu, Japan)

Training and Fatigue in Polypyrrole Artificial Muscles

10:50 to 11:10 *Invited*

Estibalitz Ochoteco (New Materials Dept., CIDETEC, Donostia-San Sebastian, Spain), Hans Grande, Haritz Macicior, Jose A. Pomposo, Javier Rodriguez, Tomasz Sikora

From Conducting Polymers to Flexible Pressure Sensors: A Success History in Organic Electronics

11:10 to 11:30

Coffee Break

11:30 to 11:50

Zbigniew Stojek (Department of Chemistry, University of Warsaw, Warsaw, Poland), Mikolaj Donten, Marianna Gniadek

Polymerization at the boundary of two liquid phases as a method of synthesis of metal-polymer nanostructures

11:50 to 12:10

Carita Kvarnstrom (Abo Akademi University, Process Chemistry Centre, Laboratory of Analytical Chemistry, Abo/Turku, Finland), Ari Ivaska, Anna Österholm, Michal Wagner

Room temperature ionic liquids in polymer/fullerene bilayer studies

12:10 to 12:30

Gregory Allen Sotzing (Polymer Program and Department of Chemistry, Storrs, USA)

Electrochromic Devices and Fiber Using Conjugated Polymers

12:30 to 12:50

María Caballero Romero (Laboratory of Electrochemistry, Intelligent Materials and Devices (CEMI). Technical University of Cartagena (UPCT), Cartagena, Murcia, Spain), Toribio Fernández Otero

PEDOT (Poly(3,4-ethylendioxithiophene)) electrochemical oxidation occurs under chemical kinetic control.

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications

Location: Room 212 (Floor P1)

Chair: Kurt Hebert, Kevin Ogle

10:10 to 10:30

Carmen Perez (Universidade de Vigo, Vigo, Spain), Antonio Collazo, X. Ramón Nóvoa, Beatriz Puga

Behaviour of rust converters over steel corrosion products

10:30 to 10:50

Vincent Vignal (ICB, CNRS-Université de Bourgogne, Dijon, France), Jean Baptiste Jorcin, Halina Krawiec, Nadine Pebere, Vincent Vignal

Comparison of local electrochemical impedance measurements derived from bi-electrode and microcapillary techniques

10:50 to 11:10 *Invited*

François Huet (Université Pierre et Marie Curie, Paris Cedex 05, France), Ugo Bertocci

Electrochemical Noise Measurements in Corrosion

11:10 to 11:30

Coffee Break

11:30 to 11:50

Christian Fenster (Max-Planck-Institut für Eisenforschung, Düsseldorf, Germany), Achim Walter Hassel, Michael Rohwerder

Impedance-Titration: A Novel Method for Understanding the Kinetics of Corrosion in Aqueous Solutions

11:50 to 12:10

Ana Pérez Ceballos (Federal University of Rio de Janeiro, Rio de Janeiro, Brazil), Oscar Mattos, Susana Modiano

Influence of Electrolyte Flow on Iron Hydrogen Permeation

12:10 to 12:50 *Keynote*

Kevin Ogle (Laboratoire Physicochimie des Surfaces, University of Paris, ENSCP, Paris, France), Jonas Baeyens, Jolanta Swiatowska, Polina Volovitch

The Anodic Dissolution of Alloys : Real Time Kinetics Using Atomic Emission Spectroelectrochemistry

12:50 to 13:10

Koji Fushimi (Graduate School of Engineering, Hokkaido University, Sapporo, Japan), Hiroki Habazaki, Shunsuke Yamamoto

Micro-electrochemistry with Flowing Electrolyte-type Scanning-droplet-cell

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes

Location: Room 214 (Floor P1)

Chair: Sergio Trasatti, Thomas W. Chapman

10:10 to 10:30

Cécile Georges (ICMPE/CNRS, Thiais, France), Stéphane Bastide, Claude Lévy-Clément

Silicon a New Electrode for Electrochemical Reduction of Nitrates: Comparison with Boron-doped Diamond

10:30 to 10:50

Carlos Ponce-de-León (Electrochemical Engineering Laboratory, Energy Group of the School of Engineering Sciences, Southampton, United Kingdom), Stuart Male, Gavin Reade, Frank Walsh, Ian Whyte

A Redox Flow Reactor used for Energy Storage; Reaction Environment and Characterization

10:50 to 11:10

Claude Deslouis (Laboratoire Interfaces et Systèmes Electrochimiques UPR 15 CNRS, Ivry sur Seine, France), Michel Keddam, Olivier Lacroix, Jean-Pierre Py, Kamal Rahmouni, Béatrice Sala, Hisasi Takenouti, Stéphanie Willemin

Ionic conduction in doped perovskite AB1-x MXO_3-x under vapor electrolysis for H_2 production

11:10 to 11:30

Coffee Break

11:30 to 12:10 *Keynote*

Geoff Kelsall (Department of Chemical Engineering, Imperial College London, London, United Kingdom), Uttam Doraswami, Kang Li

Hollow Fibre Solid Oxide Fuel Cells

12:10 to 12:30 *Invited*

Lourdes Vazquez Gomez (IENI-CNR, Padova, Italy), Sandro Cattarin, Paolo Guerriero, Marco Musiani

Hydrogen Evolution on Porous Ni Cathodes Modified by Spontaneous Deposition of Noble Metals

12:30 to 12:50

Ichiro Yamanaka (Deapartment of Applied Chemistry, Meguro-ku, Japan), Hanaizumi Noriko, Murayama Toru

Hydrogen Peroxide Synthesis on Heat-treated Mn-Porphyrin/Carbon Cathode by the Fuel Cell Method

12:50 to 13:10

Akimasa Tasaka (Dept. of Molecular Science and Technology, Doshisha University, Kyotanabe, Japan), Minoru Inaba, Minoru Inaba, Noriaki Masuda, Kunitaka Momota, Kenta Nakanishi, Makoto Shizuno

Electrolytic synthesis of $(CF_3)_3N$ in mixed melt of $(CH_3)_3N$•mHF+x wt.%CsF•2.3HF·

Symposium 8: Electrochemical Energy Conversion and Storage

Location: Main Theatre (Salón de Actos, Floor PB)

Chair: Nicola Alonso-Vante, Mogens Mogensen

10:10 to 10:30 *Invited*

Pierre Boillat (Electrochemistry Laboratory, Paul Scherrer Institut (PSI), Villigen PSI, Switzerland), Michael H. Bayer, Gabriel Frei, Denis Kramer, Eberhard H. Lehmann, Günther G. Scherer, Ingo A. Schneider, Bernhard C. Seyfang, Kazuhiko Shinohara, Yutaka Tasaki, Alexander Wokaun

Recent Progress in the Neutron Imaging of Liquid Water in Polymer Electrolyte Fuel Cells (PEFCs)

10:30 to 10:50

Heli Wang (National Renewable Energy Laboratory, Golden, USA), John A. Turner

SnO_2:F Coated Stainless Steels for PEMFC Bipolar Plates

10:50 to 11:10

Maria Assunta Navarra (Department of Chemistry, University of Rome "La Sapienza", Rome, Italy), Alessandra Fernicola, Stefania Panero, Bruno Scrosati

Low Relative Humidity Performances of a Stabilized Nafion-based Polymer Electrolyte Membrane Fuel Cell

11:10 to 11:30

Coffee Break

11:30 to 11:50

Andrei Kulikovsky (Research Centre, Juelich, Germany)

Modeling of fuel cell stacks: Approaches and perspectives

11:50 to 12:10

Elton Cairns (University of California, Dept. of Chemical Engineering, Berkeley, USA), Aurora Fojas, Patrick McGrath, Jeffrey Reimer

Adsorbate Characterization on DAFC Electrocatalysts

12:10 to 12:30

Pawel J. Kulesza (Department of Chemistry, University of Warsaw, Warsaw, Poland), Piotr J. Barczuk

Development of multifunctional catalysts for electrooxidation of methyl formate and ethanol

12:30 to 12:50

Zempachi Ogumi (Graduate School of Engineering, Kyoto University, Kyoto, Japan), Takeshi Abe, Yasutoshi Iriyama, Masao Matsuoka, Kohei Miyazaki, Naotsugu Sugimura

Non-platinum Cathode Catalysts for Alkaline Direct Ethylene Glycol Fuel Cells with Anion-Exchange Membrane

12:50 to 13:10

Romain Jamard (CEA / LITEN / DTNM / LCH, Grenoble, France), Philippe Capron, Christophe Coutanceau, Audrey Martinent, Jérémie Salomon

Solid Alkaline Membrane Fuel Cell Development

Symposium 8b: Electrochemical Energy Conversion and Storage

Location: Room 107 (Floor E1)

Chair: Ruediger Koetz, Prof. Kwang Bum Kim

10:10 to 10:30

Chi-Chang Hu (Department of Chemical Engineering, National Tsing Hua University, Hsin-Chu, Taiwan)

Recent Advances in Oxide-Based Electrochemical Supercapacitors

10:30 to 10:50

Patrick Ruch (Paul Scherrer Institut, Villigen PSI, Switzerland), Dario Cericola, Annette Foelske, Rüdiger Kötz

***In situ* Studies of Single-Walled Carbon Nanotubes and Activated Carbon in Non-Aqueous Supercapacitor Electrolytes**

10:50 to 11:10

Wataru Sugimoto (Shinshu university, Department of Fine Materials Engineering, Ueda, Japan), Yoshio Takasu

Electrochemical Capacitor Behavior Of Layered $Nax RuO_2 \cdot nH_2O$

11:10 to 11:30

Coffee Break

11:30 to 11:50

Pietro Staiti (Institute CNR-ITAE, Messina, Italy), Francesco Lufrano

Study of Manganese Oxide as a Material for Pseudocapacitor Electrode

11:50 to 12:10

Jeon-Kook Lee (Materials Science and Engineering Division, Korea Institute of Science and Technology, Seoul, Korea), Sangsig Kim, Hyung-Sup Min

Immobilized Carbon Nanofibers Supported MnOx Supercapacitors

12:10 to 12:50 *Keynote*

Elzbieta Frackowiak (Poznan Unversity of Technology, Poznan, Poland)

Recent Progress in the Understanding of Electrode Reactions Occurring in Supercapacitors

12:50 to 13:10

Masahiro Toyoda (Applied Chemistry, Oita University, Oita, Japan), Taro Kinumoto, Satomi Morinaga, Tomoki Tsumura

Application to Capacitor Electrode of Exfoliated Carbon Fibers Derived From PAN-bases Carbon Fibers

Symposium 9: Micropowered Devices: Energy Harvest, Storage and Conversion

Location: Room 213 (Floor P1)

Chair: Patrice Simon

10:10 to 10:50 *Keynote*

Adam Heller (Department of Chemical Engineering, University of Texas at Austin, Austin, USA)
A Roadmap to Implanted Biofuel Cells

10:50 to 11:10

Daniel Scherson (Department of Chemistry, Case Western Reserve University, Cleveland, USA), Youjiang Chen
High Power Density Ultramicro Pseudocapacitors

11:10 to 11:30

Coffee Break

11:30 to 12:10 *Keynote*

Josh Thomas (LRCS-UMR 6007, Université de Picardie Jules Verne, Amiens, France), K. Edstrom, C. Guéry, E. Perre, P. Poizot, P. Simon, P.L. Taberna, J-M. Tarascon
Elaboration of nano-architectured electrodes/current-collectors for 3D Li microbatteries

12:10 to 12:30 *Invited*

John Harb (Department of Chemical Engineering, Fulton College of Engineering and Technology, Brigham Young University, Provo, USA)
Microbatteries for Hybrid Micropower Supplies

12:30 to 13:10 *Keynote*

Bruce Dunn (University of California, Los Angeles, USA)
Three-Dimensional Battery Architectures for Micropower Applications

Symposium 10: General Session

Location: Room 215 (Floor P1)

Chair: M. Anderson, A. Hubin

10:50 to 11:10 *Invited*

Ignasi Sirés Sadornil (Université Paris-Est, Laboratoire Géomatériaux et Géologie de l'Ingénieur, IFSA, Marne-la-Vallée Cedex 2, France), Nihal Oturan, Mehmet A. Oturan
Enhancement of the Electro-Fenton Process Performance by using Porous High-Surface Carbon Electrodes. Particularities and Application.

11:10 to 11:30

Coffee Break

11:30 to 11:50

Cristina Saez (Department of Chemical Engineering, Faculty of Chemistry, Universidad de Castilla La Mancha, Ciudad Real, Spain), Pablo Cañizares, Igor Cretescu, Silvia Curteanu, C. George Piuleac, Manuel A. Rodrigo
The use of neural networks to regulate environmental batch electrolyses processes

11:50 to 12:10

Conchi Ania (Instituto Nacional del Carbón INCAR CSIC, Oviedo, Spain), François Béguin
Electro-assisted removal of bentazone from drinking water and regeneration of the adsorbent

12:10 to 12:30

Carlos Jiménez (Department of Chemical Engineering, Ciudad Real, Spain), Pablo Cañizares, Fabiola Martínez, Manuel Andrés Rodrigo, Cristina Sáez
Influence of Initial pH in the Choice of Conventional or Electrochemical Coagulation Technologies

12:30 to 12:50

Karl Mayrhofer (Technical University Munich, Garching, Germany), Matthias Arenz, Gustav Wiberg

Impact of glass corrosion on the electrocatalysis on Pt electrodes in alkaline electrolyte

12:50 to 13:10

Olivier Lemaire (CEA (Atomic Energy Commission of France), Department of Hydrogen Technologies (DTH), PEFC Components Lab(LCPEM), Grenoble, France), Benoit Barthe, Alejandro Antonio Franco, Nicolas Guillet, Magalie Guinard

PEFC anode long-term CO contamination impact on intrinsic catalyst and C-support ageing mechanisms: new advances on durability understanding

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells

Salón de Grados (Floor PA)

Chair: Giuseppe Palleschi, Taek Dong Chung

15:10 to 15:50 *Keynote*

Pankaj Vadgama (IRC in Biomedical Materials, Queen Mary, University of London, London, United Kingdom)

A Fluidics and Filter Strategy to Controlled Biosensing

15:50 to 16:10

Florian Mansfeld (Corrosion and Environmental Effects Laboratory, Mork Family Department of Chemical Engineering and Materials Science, University of Southern California, Los Angeles, USA), Orianna Bretschger, David Harrington, Aswin Karthik Manohar, Kenneth Nealson

The Use of Electrochemical Impedance Spectroscopy (EIS) and other Electrochemical Techniques in the Evaluation of the Performance of Microbial Fuel Cells with Different Anode Designs

16:10 to 16:30 *Invited*

Taek Dong Chung (School of Chemistry, Seoul National University, Seoul, Korea)

Polyelectrolytic Gel Electrodes on Microfluidic Devices for Bioanalytical Applications

16:30 to 16:50

Coffee Break

16:50 to 17:10 *Invited*

Giuseppe Palleschi (Department of Chemistry, University of Rome Tor Vergata, Rome, Italy), Aziz Amine, Fabiana Arduini, Felice Caprio, Danila Moscone, Francesco Ricci, Giulia Volpe

Applications of electrochemical probes in clinical, food and environmental analysis

17:10 to 17:30

Wolfgang Schuhmann (Analytische Chemie, Elektroanalytik & Sensorik; Ruhr-Universität Bochum, Bochum, Germany), Yvonne Ackermann, Nina Dimcheva, Kathrin Eckhard, Lo Gorton, Dmitrii Guschin, Katarzyna Karnicka, Pawel J. Kulesza, Sergey Shleev, Leonard Stoica

Design of electron-transfer pathways and localized visualization of immobilized biocatalytic activities for the development of improved biofuel cells

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

Location: Room 210 (Floor P1)

Chair: Gary Attard

15:10 to 15:50 *Keynote*

Nenad Markovic (Materials Sciences Division, Lawrence Berkeley National Laboratory, University of California, Berkeley, USA)

Surface science of fuel cell reactions: from model systems to real catalysts

15:50 to 16:10

Francisco J. Vidal-Iglesias (Instituto Universitario de Electroquímica, Universidad de Alicante, Alicante, Spain), Antonio Aldaz, Juan M. Feliu, Enrique Herrero, José Solla-Gullón

CO Monolayer Oxidation on Stepped Pt Surfaces

16:10 to 16:30

Gonzalo García (Leiden Institute of Chemistry, Leiden, Netherlands), Marc Koper

Carbon monoxide oxidation on stepped platinum single-crystal electrodes in alkaline solution

16:30 to 16:50

Coffee Break

16:50 to 17:10 *Invited*

Yoshitada Morikawa (The Institute of Scientific and Industrial Research, Osaka University, Ibaraki city, Japan), Ikutaro Hamada, Tamio Ikeshoji, Yasuharu Okamoto, Minoru Otani, Osamu Sugino

First-principles molecular dynamics simulation of H adsorption at the water/Pt(111) interface

17:10 to 17:50 *Keynote*

Matthew Neurock (Departments of Chemical Engineering and Chemistry, University of Virginia, Charlottesville, USA)

First-Principles Insight into the Electrocatalytic Reduction of Oxygen at Electrified Aqueous/Metal Interfaces

Symposium 3: Electroanalytical Chemistry at the Nanoscale

Location: Room 211 (Floor P1)

Chair: Marcin Opallo, Frederique Deiss

15:10 to 15:30 *Invited*

Arkady Karyakin (Chemistry Faculty of M.V. Lomonosov Moscow State University, Moscow, Russian Federation)

Nano-electrode arrays of the advanced electrocatalyst: towards sensor with record performance characteristics

15:30 to 15:50

Gyorgy Inzelt (Department of Physical Chemistry, Eötvös Loránd University, Budapest, Hungary), András Róka

The neglected first reduction-oxidation cycle in solid-state electrochemistry. The example of $RuCl_3$

15:50 to 16:30 *Keynote*

Tomokazu Matsue (Graduate School of Environmental Studies, Tohoku University, Sendai, Japan), Hyun Jung Lee, Hitoshi Shiku, Tomoyuki Yasukawa

Dielectrophoretic Manipulation of Micro/Nanoparticles and Application to Immunoassay

16:30 to 16:50

Coffee Break

16:50 to 17:10

Fabien Miomandre (PPSM / ENS Cachan, Cachan, France), Claude Andrieux, Pierre Audebert, Cedric Boissiere, Laurent Bonneviot, Stephanie Calmettes, Clement Sanchez

Fast scan rate electrochemistry applied to redox functionalized materials : an efficient tool to investigate the structure up to the nanometer scale

17:10 to 17:30

Giorgio Ferrari (Dipartimento di elettronica, Politecnico di Milano, Milano, Italy), Marco Carminati, Marco Sampietro

Potentiostat with attoFarad Resolution for Nanoscale Electrochemical Measurements

17:30 to 17:50

Marcos Pita (Chemistry Department at Clarkson University, Potsdam, USA), Javier Jiménez, Evgeny Katz, Sergiy Minko, Roman Sheparovych

Magneto-Assisted Generation of Nanowires on Electrode Surfaces for Biocatalytic Applications

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers

Location: Room 209 (Floor P1)

Chair: Jim Simpson, Jiri Ludvik

15:10 to 15:30

Dionisio Posadas (INIFTA, Facultad de Ciencias Exactas, Universidad Nacional de La Plata, La Plata, Argentina), María Inés Florit, Waldemar Marmisollé, Gabriel Ybarra

The Coupling Between Electron Transfer, Deformation and Binding during the Redox Switching of Electroactive Macromolecules. A Simple Model

15:30 to 15:50 *Invited*

Anne-Lucie Teillout (Laboratoire d'Electrochimie Moléculaire, Université de Paris, Diderot, Paris cedex 05, France), Cyrille Costentin, Marc Robert, Jean-Michel Savéant

Proton Coupled Electron Transfers in metal Complex. Oxidation Mechanism for [Os II$(bpy)_2py(OH_2)]_2$+ in water

15:50 to 16:30 *Keynote*

Alain Deronzier (Departement de Chimie Moleculaire, CNRS UMR 5250, Université Joseph Fourier, Grenoble, France)

Ru-Mn complexes for modeling Photosystem II. An electrochemical approach

16:30 to 16:50

Coffee Break

16:50 to 17:10

Vitali Grinberg (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russian Federation), Michail Gratchev, Andrey Stepanov

The Electrocarboxylation of Inclusion Complexes of β-Cyclodextrin with α-Halogenalkylaromatic Compounds

17:10 to 17:30 *Invited*

Angela Molina (Departamento de Química-Física, Universidad de Murcia, Murcia, Spain), Joaquin A. Ortuño, Carmen Serna, Encarnacion Torralba

Theory for the application of multipulse voltammetry to the study of ion transfer across liquid membranes

17:30 to 17:50

Ricardo Hernández (Universidad de Los Andes, Facultad de Ciencias, Dpto. de Química, Mérida, Venezuela), Monica Martín, Yris Martínez, Enrique Millán, Carlos Rojas

Studies on the CO_2 reduction in presence of aqueous metal ions and metal-porphyrin, on glassy carbon electrodes

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

Location: Room 007 (Floor PB)

Chair: Salvatore Piazza, Giovanni Zangari

15:10 to 15:50 *Keynote*

Kornelius Nielsch (Institute of Applied Physics, University of Hamburg, Hamburg, Germany)

Electrochemical Growth of Nanostructures in Monoculturesfor Nanomagnetism and Thermoelectrics

15:50 to 16:10

Di Wei (Nokia Research Centrec/o Nanoscience Centre in University of Cambridge, Cambridge, United Kingdom), Jayanta K. Baral, Ari Ivaska, Ronald Oesterbackacka

Electrochemical fabrication of nonvolatile memory device based on conducting polymer and gold particles

16:10 to 16:30

László Péter (Research Institute for Solid State Physics and Optics, Hung. Acd. Sci., Budapest, Hungary), Imre Bakonyi, Attila Csík, Gábor L. Katona, József Pádár, Enikõ Tóth-Kádár, Kálmán Vad

Electrodeposition, composition and depth profile analysis of Co/Cu and Co-Ni/Cu multilayers

16:30 to 16:50

Coffee Break

16:50 to 17:10

Christelle Arnould (Laboratory of Chemistry and Electrochemistry of Surfaces, Namur, Belgium), Joseph Delhalle, Zineb Mekhalif

Structured thin layer of tantalum oxide on titanium plate

17:10 to 17:30

Paula Cojocaru (Politecnico di Milano, Milan, Italy), Pietro Luigi Cavallotti, Luca Magagnin

Effect of benzotriazole and 5-phenil-1H-tetrazole on dissolution of copper

17:30 to 17:50

Robert Dryfe (Chemistry, Manchester, United Kingdom)

Towards and understanding of Interfacial Deposition

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications

Location: Room 212 (Floor P1)

Chair: Kevin Ogle, Kurt Hebert

15:50 to 16:30 *Keynote*

Kurt Hebert (Department of Chemical & Biological Engineering, Iowa State University, Ames, USA), Jerrod Houser

Coupled Electrical Migration and Stress-Driven Transport in Anodic Oxide Films

16:30 to 16:50

Coffee Break

16:50 to 17:10

Idalina V. Aoki (Departamento de Engenharia Química, Escola Politécnica, Universidade de São Paulo, São Paulo, Brazil), Vera R. Capelossi, Patricia H. Suegama

Influence of Cerium (IV) added to a Tetrasulfide Bis-Silane Film on Corrosion Behaviour of Coated Galvannealed Steel.

17:10 to 17:30

Reinhard Stadler (DECHEMA e.V., Karl-Winnacker-Institut, Frankfurt am Main, Germany), Wolfram Fürbeth, Mariel Grooters, Kerstin Harneit, Anne Heyer, Andrzej Kuklinski, Wolfgang Sand

Influence of Extracellular Polymeric Substances on Cell Adhesion and Microbially Influenced Corrosion of Iron and Steel

17:30 to 17:50

Manuel García Rubio (Departmento de Química-Física Aplicada, Madrid, Spain), Ignacio Manuel García, Ángeles Lavía, Pilar Ocón

Optimization of non-chromium containing TSA anodizing bath for Al 2xxx alloys for aerospace application

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes

Location: Room 214 (Floor P1)

Chair: Geoff Kelsall, Masatsugu Morimitsu

15:30 to 15:50

Leticia Ferreira (State University of Campinas (UNICAMP)Mechanical Engineering Faculty,Materials Department , Campinas, Brazil), Rodnei Bertazzoli

Characterization of Carbon/PTFE Gas Diffusion Electrodes for CO_2 Reduction

15:50 to 16:30 *Keynote*

Andrea F. Gullá (De Nora Tech, Fairport Harbor, USA), Robert J. Allen, Lajos Gancs, Sanjeev Mukerjee

Carbon-supported Low-Loading Rhodium Sulfide Electrocatalysts for Oxygen Depolarized Cathode Applications.

16:30 to 16:50

Coffee Break

16:50 to 17:10

Rossano Amadelli (ISOF-CNR, Ferrara, Italy), R. Amadelli, V.A. Knysh, T.V. Luk'ynenko, L. Samiolo, A.B. Velichenko

Composite PbO_2-TiO_2 Materials: Electrosynthesis, and Physico-Chemical Properties

17:10 to 17:30

Babette Innocent (University of Poitiers, Department of Chemistry, LACCO UMR CNRS 6503, Poitiers, France), Françoise Hahn, Boniface Kokoh, Jean-Michel Léger, David Pasquier, François Ropital

Electroreduction of Carbon Dioxide at Lead Electrode

17:30 to 17:50

Petr Krtil (J. Heyrovsky Institute of Physical Chemistry, Academy of Sciences of the Czech Republic, Prague, Czech Republic), Zdenek Bastl, Jakub Jirkovsky, Katerina Macounova, Valery Petrykin

Hetero-statically doped Ru based oxides with rutile structure for selective oxidative electrocatalysis

Symposium 8: Electrochemical Energy Conversion and Storage

Location: Main Theatre (Salón de Actos, Floor PB)

Chair: Radoslav Adzic, Zempachi Ogumi

15:30 to 15:50

Antonino Salvatore Arico (CNR-ITAE, Messina, Italy), V. Antonucci, D. La Rosa, M. Lo Faro, M. Minutoli, M. Monforte, I. Nicotera

Investigation of Composite Ni-Doped Perovskite Anodes for the Direct Oxidation of Propane in Solid Oxide Fuel Cells

15:50 to 16:30 *Keynote*

Mogens Mogensen (Fuel Cells and Solid State Chemistry Deppartment, Roskilde, Denmark)

Recent progress in the development of electrodes and electrolytes for SOFC

16:30 to 16:50

Coffee Break

16:50 to 17:10

Edward Wright (Johnson Matthey Technology Centre, Reading, United Kingdom)

Characterization of the electrochemical response of high performance MEAs to transients in operating conditions

17:10 to 17:30

Hai Yang (GE Global Research, Shangha, China), Wei Cai, Qunjian Huang, Jinghua Liu, Chang Wei, Rihua Xiong, Xianguo Yu

Rechargeable Fuel Cell Technology Development for Hybrids and/or Electric Vehicles

17:30 to 17:50

Alejandro Antonio Franco (CEA-Grenoble (Atomic Energy Commission of France), Departement of Hydrogen Technologies (DTH), Laboratory of PEFC Components (LCPEM), Grenoble, France), Mathias Gerard, Magalie Guinard, Sylvain Passot

Coupling of ageing mechanisms in PEFC environments: new insights from a multi-scale modelling investigation

Symposium 8b: Electrochemical Energy Conversion and Storage

Location: Room 107 (Floor E1)

Chair: Elzbieta Frackowiak, Wataru Sugimoto

15:30 to 15:50 *Invited*

Stephen Lipka (University of Kentucky, Center for Applied Energy Research, Lexington, USA), Illayathambi Kunadian, Christopher Swartz

Recent Progress in the Development of Carbon Nanotubes for Energy Storage Applpications

15:50 to 16:10

Jose M. Rojo (Instituto de Ciencia de Materiales de Madrid CSIC, Madrid, Spain), Jose M. Amarilla, Joaquin Ibañez, M. Angeles Lillo-Rodenas, Angel Linares-Solano, Cesar Merino, Fernando Pico, Rosa M. Rojas

RuO_2.xH_2O/Carbon Nanofibres Composites as Supercapacitor Electrodes

16:10 to 16:30

Marina Mastragostino (Dipartimento di Scienza dei Metalli, Elettrochimica e Tecniche Chimiche, University of Bologna, Bologna, Italy), Catia Arbizzani, Mariachiara Lazzari, Francesca Soavi

Safe, high-energy supercapacitors for transportation

16:30 to 16:50

Coffee Break

16:50 to 17:30 *Keynote*

Kwang Bum Kim (National Research Laboratory of Energy Conversion and Storage Materials, Department of Metallurgical Engineering, Yonsei University, Seoul, Korea), Kwang Heon Kim, Ji Young Kim, Jingo Kim, Sang Bok Ma

Synthesis and Electrochemical Properties of Metal Oxide/Carbon Nanotube Composites for Electrochemical Capacitors Applications

17:30 to 17:50

Soo-Gil Park (Dept. of Industrial Engineering Chemistry/Chungbuk National University, Cheongju, Korea), Hong-Il Kim

Electrochemical Capacitor Based on Activated Carbon Composite Electrode and its Application

Symposium 9: Micropowered Devices: Energy Harvest, Storage and Conversion

Location: Room 213 (Floor P1)

Chair: Debra Rolison

15:30 to 15:50 *Invited*

Luke Milner (Georgia Tech Analog, Power, & Energy Research, Atlanta, USA), Gabriel Rincón-Mora, Erick Torres

Mixing Sourcing Technologies to Extend the Operational Life of Ultra-Portable Micro-Scale Electronics

15:50 to 16:10 *Invited*

Glenn Amatucci (Rutgers, the State University of New Jersey, North Brunswick, USA), Fadwa Badway, Nicholas Hudak, Kimberly Scott, Larry Weinstein, William Yourey

Micropower Systems and the Electrochemically Self Formed Micro Battery

16:10 to 16:30 *Invited*

Yang Shao-Horn (MIT, Cambridge, USA), G.J. la O'

Probing Oxygen Reduction Reaction Kinetics Using Heterostructured Oxide Model Electrodes

16:30 to 16:50

Coffee Break

16:50 to 17:30 *Keynote*

Peter H.L. Notten (Eindhoven University of Technology, Philips Research Laboratories, Eindhoven, Netherlands)

A challenging route towards 3D-integrated all-solid-state batteries

17:30 to 17:50

David Harrington (Chemistry Department, University of Victoria, Victoria, Canada), Ned Djilali, Erik Kjeang, David Sinton

Microfluidic Fuel Cells

17:50 to 18:10

Yoko Kikuchi (Bioengineering Department, Imperial College London, London, United Kingdom), Danny O'Hare

Miniaturized glucose-oxygen biofuel cells

Symposium 10: General Session

Location: Room 215 (Floor P1)

Chair: M. E. Vela, E. Vieil

15:50 to 16:10 *Invited*

Zdenek Samec (J. Heyrovsky Institute of Physical Chemistry of ASCR, Prague 8, Czech Republic), Jan Langmaier, Antonín Trojánek, Stanislav Zališ

Mechanism of Electrocatalysis of Oxygen Reduction at a Polarized Liquid-Liquid Interface by Co(II) Porphyrins

16:10 to 16:30

Xiaodong Wang (LISE- UPR15 du CNRS, Paris, France), Marie-Claude Bernard, Claude Deslouis, Philippe Rousseau

Dynamic Coupling of Electrochemical Impedance Spectroscopy (EIS) with Raman Spectroscopy for Characterization of a Conducting Polymer Film

16:30 to 16:50

Coffee Break

16:50 to 17:10

Maciej Chotkowski (Faculty of Chemistry, University of Warsaw, Warsaw, Poland), Zbigniew Rogulski

In situ **spectroscopic investigations of electrochemical behavior of perrhenate ions in acidic media**

17:10 to 17:30

Francisco Strixino (Universidade de São Paulo, Instituto de Física de São Carlos, São Carlos, Brazil), Francisco Guimarães

Zirconium oxide anodic films: optical and structural properties

Wednesday 10 September 2008

	Posters Set-up										
9:00-10:00	**Plenary lecture: Professor Henry S. White - Main Theatre (Salón de Actos)**										
	S1	**S2**	**S2-B**	**S3**	**S4**	**S5**	**S6**	**S7**	**S8**	**S8-B**	**S10**
	Salón de Grados	**Room 210**	**Room 213**	**Room 211**	**Room 209**	**Room 007**	**Room 212**	**Room 214**	**Salón de Actos**	**Room 107**	**Room 215**
10:10-10:30	F. Armstrong	I. Burgess	M. Cormack	J. Barron	T. Albrecht	S. Ono	R. Nóvoa	H. Deligianni	P. Reale	C. Lamy	
10:30-10:50		H.A. Heering	P.F. Brevet	R. Baron	D.L. Raffa			Q. de Radigués	Y.G. Guo	G. Tremiliosi-Filho	
10:50-11:10	J.M. Artés	J. Lipkowski	I. Valov	L. Niu	L.J. Wan	A, Bittner	M. Sánchez	K. Murase	T. Richardson	J. Solla-Gullon	A. Lasia
11:10-11:30	Coffee Break										
11:30-11:50	G. Wittstock	J. Ulstrup	C. Lebouin	K. Takamura	C. Gabrielli	G. Zangari	M.E. Vela	P.L. Cavallotti	B. Erjavec	J.F. Drillet	J. Kuleshova
11:50-12:10	J.M. Abad		M.Schnippering	A. Costa-García	K. Tammeveski	A.W. Hassel	F.J. Recio		G.F. Ortiz	Z. Jusys	A.I. Mardare
12:10-12:30	D. Murgida	K. Wandelt	E. Pastor	T. McCormac	R. Nichols	H. Habazaki	M. Macedo	P. Guillaume	R. Kostecki	E. Herrero	A. Boika
12:30-12:50	Q. Chi	T. Doneux	C. Munuera	O. Henry		M. Ohtaki	F. Feil	J. Thonstad		E. Gonçalves C.	K. Yliniemi
12:50-13:10	S. Krause	A. Wieckowski		P. Krysinski	C. Fave	S. Yagi	C. Andrade	A. Recéndiz		P. Hernández F.	T. Rahman Khan
13:10-13:30								S. Legeai-Roche			

Lunch

14:30-15:30	Poster session / coffee **Symposiums S6, S7, S8, S9 & S10**
15:30-15:50	Departure to excursions
15:50-16:10	

Wednesday 10 September 2008 - AM

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells

Salón de Grados (Floor PA)
Chair: Wolfgang Schuhmann, Steffi Krause

10:10 to 10:50 *Keynote*
Fraser Armstrong (Department of Chemistry, University of Oxford, Oxford, United Kingdom)
The Electrochemistry of Enzymes that Catalyze Oxidation and Production of Hydrogen

10:50 to 11:10
Juan Manuel Artés (Institute for Bioengineering of Catalonia (IBEC), Barcelona, Spain), Ismael Díez-Pérez, Pau Gorostiza, Jordi Hernández-Borrell, Javier Hoyo, Fausto Sanz
Direct Measurement of the Tunnelling Barrier of Azurin by Electrochemical Tunnelling Spectroscopy

11:10 to 11:30
Coffee Break

11:30 to 11:50 *Invited*
Gunther Wittstock (Carl von Ossietzky University of Oldenburg, CIS, Center of Interface Science, Institute of Pure and Applied Chemistry and Institute of Chemistry and Biology of the Marine Environment, Oldenburg, Germany), M. Burchardt, W. Nogala, M. Opallo, J. Rogalski, Y. Shen, M. Träuble, Gunther Wittstock
SECM investigation of oxygen reduction with enzyme and noble metal catalysts

11:50 to 12:10
Jose M. Abad (Centre for Nanoscale Science, Chemistry Department, University of Liverpool, Liverpool, United Kingdom), David J. Schiffrin
Direct Electron Transfer to Redox Proteins Across Nanoparticles

12:10 to 12:30 *Invited*
Daniel Murgida (Departamento de Química Inorgánica, Analítica y Química Física, INQUIMAE-CONICET, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Buenos Aires, Argentina)
Direct Observation of Protein Dynamics at Biomimetic Electrochemical Interfaces

12:30 to 12:50
Qijin Chi (Department of Chemistry, Technical University of Denmark, Kgs. Lyngby, Denmark)
Approaches to Both Intramolecular and Interfacial Electron Transfer of a Two Redox-centered Protein

12:50 to 13:10 *Invited*
Steffi Krause (School of Engineering and Materials Science, Queen Mary University of London, London, United Kingdom), Jacqueline Stair, Michael Watkinson, Yinglin Zhou
Generic sensor for the detection of proteases

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

Location: Room 210 (Floor P1)
Chair: David Fermin

10:10 to 10:30
Ian Burgess (Department of Chemistry, Saskatoon, Canada), Burke Barlow, Brook Danger, Scott Rosendahl
Acid – Base Chemistry at Electrified Interfaces

10:30 to 10:50 *Invited*

Hendrik A. Heering (Leiden University, Leiden Institute of Chemistry, Leiden, Netherlands), Bernd Ludwig, Oliver Matthias Richter, Frank G. M. Wiertz

Electrocatalytic oxygen reduction by cytochrome c oxidase

10:50 to 11:10 *Invited*

Jacek Lipkowski (Department of Chemistry, University of Guelph, Guelph, Canada), Xiaomin Bin, Christa Brosseau, Ian Burgess, Maohui Chen, Nuria Garcia-Araez, Ming Li, Slawomir Sek, Grzegorz Szymanski, Shimin Xu, Izabella Zawisza

Building a Biomimetic Membrane at an Electrode Surface

11:10 to 11:30

Coffee Break

11:30 to 12:10 *Keynote*

Jens Ulstrup (Department of ChemistryTechnical University of Denmark, Lyngby, Denmark) Alexander M. Kuznetsov, Igor G. Medvedev, Tim Albrecht

Conductivity and multiple electronic transitions of redox molecules and molecular scale gold nanoparticles in electrochemical *in situ* STM

12:10 to 12:30

Klaus Wandelt (University of Bonn, Institue of Physical and Theoretical Chemistry, Bonn, Germany), Peter Broekmann, Nguyen Thi Minh Hai

Porphyrin layers on anion-modified copper surfaces: Structure and reactivity

12:30 to 12:50

Thomas Doneux (Université Libre de Bruxelles, Brussels, Belgium), Claudine Buess-Herman, Richard J. Nichols

Phase Transitions in the Adlayers of Adipic Acid on Au(111)

12:50 to 13:30 *Keynote*

Andrzej Wieckowski (Department of Chemistry, University of Illinois at Urbana-Champaign, Urbana, USA), Rachel Behrens, Dana D. Dlott, Alexei Lagutchev

Update on the Use of BB-SFG in Electrochemical Research

Symposium 2b: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

Location: Room 213 (Floor P1)

Chair: Juergen Behm

10:10 to 10:30

Michael Cormack (Department of Physics, University of Liverpool, Liverpool, United Kingdom), Alexander Brownrigg, Christopher Lucas, Nenad Markovic, Vojislav Stamenkovic, Dusan Strncnik, Paul Thompson

Temperature Effects on the Atomic Structure at the Metal-Electrolyte Interface

10:30 to 10:50

Pierre-Francois Brevet (Laboratoire de Spectrometrie Ionique et Moleculaire, UMR CNRS 5579, Universite Claude Bernard Lyon 1, Villeurbanne, France), Guillaume Bachelier, Emmanuel Benichou, Leonard E.A. Berlouis, Yara El Harfouch, Kirstin Forsyth, Christian Jonin, Isabelle Russier-Antoine

Nonlinear Optical Response from Small Silver Metallic Structures at the Electrochemical Interface

10:50 to 11:10

Ilia Valov (Institute of Physical Chemistry, Justus-Liebig University, Giessen, Germany), Alexej Barinov, Pavel Dudin, Luca Gregoratti, Juergen Janek, Bjoern Luerssen, Eva Mutoro

Electrochemical Activation of Molecular Nitrogen. An *in-situ* XPS Study

11:10 to 11:30

Coffee Break

11:30 to 11:50

Chrystelle Lebouin (LEPMIUMR 5631 - CNRS INPG UJF, Saint Martin d'Heres, France), Maurizio De Santis, Frederic Maillard, Eric SIBERT, Yvonne Soldo-Olivier

H electroinsertion in Pd/Pt(111) nanofilms: *in situ* SXRD

11:50 to 12:10

Mathias Schnippering (University of Warwick, Department of Chemistry, Coventry, United Kingdom), Stuart Mackenzie, Mikhail Mazurenka, Hayley Morley, Patrick Unwin, Meiqin Zhang

Electron Transfer Kinetics at Metal Nanoparticles Monitored by Evanescent Wave Cavity Ringdown Spectroscopy

12:10 to 12:30 *Invited*

Elena Pastor (Dpto. Química Física, Universidad de La Laguna, La Laguna, Spain), Francisco Alcaide, Laura Calvillo, García Gonzalo, María Jesús Lázaro, Jacob Quintana, José Luis Rodríguez

Development of Nanostructured Materials for PEMFC

12:30 to 12:50

Carmen Munuera (Instituto de Ciencia de Materiales de Barcelona, Consejo Superior de Investigaciones Cientificas (CSIC), Barcelona, Spain), Carmen Ocal

Nanoscaled Electrical Properties of SAM-based Molecular Junctions Investigated by Conductive Scanning Force Microscopy

Symposium 3: Electroanalytical Chemistry at the Nanoscale

Location: Room 211 (Floor P1)

Chair: Damian Arrigan, Guy Denuault

10:10 to 10:30 *Invited*

John Barron (Chemistry Department, University of Leicester, Leicester, United Kingdom), Karl Ryder, Emma Smith

A Time-Resolved *in situ* AFM-EQCM Study of the Nucleation and Growth Mechanism of Zinc from a Novel Ionic Liquid

10:30 to 10:50

Ronan Baron (University of Oxford, Oxford, United Kingdom), Fallyn W. Campbell, Richard G. Compton, Ian Streeter

Voltammetry at Nanoparticle and Microparticle Arrays

10:50 to 11:10

Li Niu (State Key Laboratory of Electroanalytical Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, China), Dongxue Han, Yanfei Shen, Zhijuan Wang, Yuanjian Zhang

Polyelectrolyte-functionalized Ionic Liquid Material in Electroanalytical Chemistry

11:10 to 11:30

Coffee Break

11:30 to 11:50

Kiyoko Takamura (School of Pharmacy, Tokyo University of Pharmacy and Life Sciences, Tokyo, Japan), Ikumi Kikuchi, Akira Kotani, Fumiyo Kusu

Performance Characteristics of a Portable Amperometric Acid Sensor for Determining Total Acid of Fruit Juices

11:50 to 12:10

Agustin Costa-Garcia (Departamento de Química Física y Analítica, Universidad de Oviedo, Oviedo, Spain), Laura Garcia-Medina, Maria Begoña Gonzalez-Garcia, David Hernandez-Santos, Graciela Martinez-Paredes

One-step PSA Immunosensor Based on Gold Nanostructured Screen-Printed Carbon Electrodes

12:10 to 12:30

Timothy McCormac (ITT Dublin, Dublin, Ireland), Aidan Fagan Murphy, Monika Goral, Shahzad Imar, Monika Zynek

Surface Manipulation of Polyoxometallates

12:30 to 12:50

Oliver Henry (Department of Chemical Engineering, Universitat Rovira i Virgili, Tarragona, Spain), Olivier Henry, Tesfaye Refera Soreta, Jörg Strutwolf

Selective Reductive Desorption of Self-assembled Monolayers of Alkanethiols from a Mixed Metal Substrate

12:50 to 13:10

Pawel Krysinski (University of Warsaw, Department of Chemistry, Warsaw, Poland), Magdalena Brzozowska, Pawel Majewski

Synthesis, surface modifications and size-sorting of mixed, nickel-zinc ferrite colloidal magnetic nanoparticles

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers

Location: Room 209 (Floor P1)

Chair: Alain Deronzier, Angela Molina

10:10 to 10:30 *Invited*

Tim Albrecht (Imperial College London, London, United Kingdom), Jens Ulstrup

Redox-mediated charge transport and electrochemistry on single molecules

10:30 to 10:50 *Invited*

Diego L. Raffa (Institut für Experimentelle und Angewandte Physik - Christian Albrechts Universität Kiel, Kiel, Germany), Belinda Baisch, Rainer Herges, Ulrich Jung, Jens Kubitschke, Olaf Magnussen

Structure and photoswitching of self-assembled layers of Azo-triazatriangulenium on Au(111) surfaces

10:50 to 11:10

Li-Jun Wan (Institute of Chemistry, Chinese Academy of Sciences (CAS), Beijing, China)

Surface Nanostructures with Ligand and Their Metal-Coordinated Complexes: STM Investigation in Solution

11:10 to 11:30

Coffee Break

11:30 to 11:50

Claude Gabrielli (LISE - CNRS, Paris, France), Hubert Perrot, Loan To Thi Kim

Investigation of Redox Switching of Polyaniline in Acidic Media by ac-Electrogravimetry

11:50 to 12:10

Kaido Tammeveski (Institute of Chemistry, University of Tartu, Tartu, Estonia), Nadezda Alexeyeva, Marko Kullapere, Margus Marandi, Leonard Matisen, Väino Sammelselg

Electrochemical behaviour of aryl-modified Au electrodes

12:10 to 12:50 *Keynote*

Richard Nichols (The Department of Chemistry, Room 140, The University of Liverpool, Liverpool, UK)

In-situ Single Molecule Conductance

12:50 to 13:10

Claire Fave (ITODYS CNRS UMR 7086, University of Paris 7, Paris, France), Vincent Noel, Jalal Ghilane, Jean Christophe Lacroix, Hyacinthe Randriamahazaka, Gaelle Trippé

Tunable electrochemical switchers based on ultra-thin organic films

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

Location: Room 007 (Floor PB)

Chair: John Stickney, Claude Levy-Clement

10:10 to 10:50 *Keynote*

Sachiko Ono (Department of Applied Chemistry, Kogakuin University, Tokyo, Japan), Hidetaka Asoh

Patterning of Silicon by Metal-Assisted Chemical Etching/Electrodeposition Through Self-Organized Micro-Spheres

10:50 to 11:10

Alexander Bittner (MPI Sol. State Res. and nano GUNE, Stuttgart, Germany and Donostia, Spain), Nadja Amsharov, Sinan Balci, Gabriel Baralia, Holger Jeske, Anan Kadri, Klaus Kern, Carl Krill, Chenchen Ma, Anna Mueller, Kei Noda, Christina Wege, Zhenyu Wu

The Tobacco mosaic virus as template for depositions

11:10 to 11:30

Coffee Break

11:30 to 11:50 *Invited*

Giovanni Zangari (University of Virginia, Charlottesville, USA), Hillary Bart-Smith, Matthew Begley, Robert Kelly, Michael Reed, Eric Rouya, Marco Villa

Nanoporous metal structures by electrochemical dealloying

11:50 to 12:10

Achim Walter Hassel (Max-Planck-Institut für Eisenforschung, Düsseldorf, Germany), Srdjan Milenkovic, Andrew Smith

Nanowires and Nanowire Arrays by an Electrochemical Structuring of Directionally Solidified Eutectics

12:10 to 12:30

Hiroki Habazaki (Graduate School of Engineering, Hokkaido University, Sapporo, Japan), Y. Aoki, K. Fushimi, H. Mayama, T. Minami, Y. Oikawa, K. Tsujii

Formation and Wettability of Microcone-Type Porous Anodic Films on Niobium

12:30 to 12:50

Michitaka Ohtaki (Department of Molecular and Material Sciences, Interdisciplinary Graduate School of Engineering Sciences, Kyushu University, Fukuoka, Japan), Hiroshi Ikeda

Molecular Assembly Templated Electrochemical Synthesis of Oxide Nano-Superlattice Thin Films and Their Electronic Properties

12:50 to 13:10

Shunsuke Yagi (Department of Materials Science and Engineering, Kyoto University, Kyoto, Japan), Kazuo Hosoya, Tetsu Ichitsubo, Yorishige Matsuba, Eiichiro Matsubara, Seijiro Matsubara, Hidetaka Nakanishi

Formation of Cu Nanoparticles from Aqueous CuO Suspension by Liquid-Phase Reduction

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications

Location: Room 212 (Floor P1)

Chair: Kemal Nisancioglu, Ramon Novoa

10:10 to 10:50 *Keynote*

X. Ramón Nóvoa (ETSEI/ Universidade de Vigo, Vigo, Spain), B. Díaz, L. Freire, M. C. Pérez

Electrochemical Behaviour of High Strength Steel Wires in Presence of Chlorides

10:50 to 11:10

Mercedes Sanchez (Institute of Construction Science Eduardo Torroja, Madrid, Spain), M. Cruz Alonso, Vicente Francisco, Hisasi Takenouti

Mechanistic Model to Simulate the Passivation Process of Steel Rebars in Alkaline Media

11:10 to 11:30

Coffee Break

11:30 to 11:50

Maria Elena Vela (INIFTA. Depto de Quìmica, La Plata, Argentina), Guillermo Benitez, Luis Dick, Roberto Salvarezza, Cristina Weber

Electrochemical Behavior of Carbon Steel in Alkanethiol Containing Solutions

11:50 to 12:10 *Invited*

F. Javier Recio (IETcc CSIC, Madrid, Spain)

High Strength Stainless Steel Stability in High Alkaline-Chloride Media. Electrochemical Potential Noise Study

12:10 to 12:30

Michelle Macedo (Federal University of Rio de Janeiro, Rio de Janeiro, Brazil), Oswaldo Barcia, Oscar Mattos, Juliana Mendes, Edílson Silva

Inhibitive Effect of Imidazole Derivatives on Iron Corrosion in 0.1M NaCl and 1 M HCl Medium.

12:30 to 12:50

Florian Feil (Karl-Winnacker-Institut, DECHEMA e.V., Frankfurt am Main, Germany), Wolfram Fürbeth

The Influence of Nanoparticulate Inorganic Coatings on the Corrosion Performance of Magnesium Alloys

12:50 to 13:10 *Invited*

C. Andrade (Institute of Construction Sciences- CSIC-Madrid-Spain, Madrid, Spain), M. Castellote, I. Martinez

Advances in the Application of Electrochemistry to Concrete and Polarization of the Reinforcement by a Contactless Method

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes

Location: Room 214 (Floor P1)

Chair: André Savall, Ann Cornell

10:10 to 10:30

Hariklia Deligianni (IBM/T.J. Watson Research Center, Yorktown Heights, USA), Brett Baker-O'Neal, Veeraraghavan Basker, Qiang Huang, James Kelly, Keith Kwietniak, Lubomyr Romankiw, Xiaoyan Shao

Electrodeposition at the Nanoscale

10:30 to 10:50

Quentin de Radiguès (Division of Materials and Process Engineering, Université Catholique de Louvain, Louvain-la-Neuve, Belgium), Joris Proost, Ronny Santoro

Kinetics of metal electro-recovery on reticulated vitreous carbon electrodes in a flow-through type reactor

10:50 to 11:10

Kuniaki Murase (Department of Materials Science and Engineering, Kyoto University, Kyoto, Japan), Takashi Ichii, Akira Ito, Hiroyuki Sugimura

Cu-Sn Metallization of Polymer through Reduction-Diffusion Method Using Ionic Liquid Baths at Medium-Low Temperatures

11:10 to 11:30

Coffee Break

11:30 to 12:10 *Keynote*

Pietro Luigi Cavallotti (Dip. Chimica, Materiali e Ing. Chimica G. Natta, Milano, Italy)

The Future of Nano Electrolytic Deposition

12:10 to 12:30

Pascaline Guillaume (Laboratoire de Chimie du Solide Minéral, Electrochimie des Matériaux, Metz, France), Clotilde Boulanger, François Lapicque

Electrochemical way for zinc recovery from industrial solid waste

12:30 to 12:50

Jomar Thonstad (Dept. Materials Science and Engineering, Norwegian University of Science and Technology, Trondheim, Norway)

Electrowinning of Iron from Sulphate Solutions

12:50 to 13:10

Alejandro Recéndiz (Departamento de Química, Universidad Autónoma Metropolitana-Iztapalapa, México, D.F., Mexico), Ricardo Benavides, Adolfo Fuentes, Ignacio González, José Luis Nava

Formation and Electrochemical Behavior of MnO_2 Anodically Formed During the Zinc Electrowinning Process

13:10 to 13:30

Sophie Legeai-Roche (Laboratoire de Chimie du Solide Minéral, Electrochimie des Matériaux, Nancy Université, Université Paul Verlaine-Metz, CNRS, Metz Cedex 3, France), Clotilde Boulanger, Sébastien Diliberto, Micheline Draye, Julien Estager, Nicolas Stein

Lanthanum Electrodeposition in Air and Water Stable Room-Temperature Ionic Liquids

Symposium 8: Electrochemical Energy Conversion and Storage

Location: Main Theatre (Salón de Actos, Floor PB)

Chair: Hector Abruna, Pascal Maire

10:10 to 10:30

Priscilla Reale (Dept. of Chemistry, Sapienza University, Rome, Italy), Alessandra Fernicola, Bruno Scrosati, Margret Wohlfahrt-Mehrens

Application of Ionic Liquids as Electrolytes for Safe and Sustainable Lithium Ion Batteries

10:30 to 10:50

Yu-Guo Guo (Institute of Chemistry, Chinese Academy of Sciences (CAS), Beijing, China), Li-Jun Wan

Hierarchically Nanostructured Electrode Materials for Lithium-Ion Batteries

10:50 to 11:10

Thomas Richardson (Lawrence Berkeley National Laboratory, Berkeley, USA), Guoying Chen, Ki-Joon Jeon

Li-Mg Alloy Anodes for Lithium Batteries

11:10 to 11:30

Coffee Break

11:30 to 11:50

Bostjan Erjavec (Laboratory for Materials Electrochemistry, National Institute of Chemistry Slovenia, Ljubljana, Slovenia), Robert Dominko, Miran Gaberscek, Janko Jamnik, Stanislav Pejovnik, Saso Sturm, Polona Umek

Tailored composites for high power batteries

11:50 to 12:10

Gregorio F. Ortiz (Laboratoire Chimie Provence UMR 6264, Marseille, France), Thierry Djenizian, Ilie Hanzu, Philippe Knauth, Pedro Lavela, Gregorio F Ortiz, José L Tirado

TiO_2 nanotubes manufactured by anodization of Ti film on Si and Si-free substrates for Li-ion batteries

12:10 to 12:50 *Keynote*

Robert Kostecki (Lawrence Berkeley National Laboratory, Berkeley, USA), Laurence Hardwick, Marek Marcinek

***In situ* Characterization of Electrode Materials in Li-ion Battery Systems**

Symposium 8b: Electrochemical Energy Conversion and Storage

Location: Room 107 (Floor E1)

Chair: Ernesto Rafael Gonzalez, Dr. Andrei Kulikovsky

10:10 to 10:30

Claude Lamy (Laboratory of Electrocatalysis, LACCO, UMR 6503, CNRS-Université de Poitiers, Département Chimie, Poitiers, France), Christophe Coutanceau, Laurent Demarconnay, Jean-Michel Léger

The electrocatalytic oxidation of alcohols in a Solid Alkaline Membrane Fuel Cell (SAMFC)

10:30 to 10:50

Germano Tremiliosi-Filho (Instituto de Quimica de Sao Carlos, Universidade de Sao Paulo, Sao Carlos, SP, Brazil), Adalgisia Rodrigues Andrade, Boniface Kokoh, Jean-Michel Leger, Paulo Olivi, Josimar Ribeiro

Synergetic Effect of Sn and W on Pt-based Catalysts for Ethanol Oxidation

10:50 to 11:10

José Solla-Gullón (Instituto de Electroquímica, Universidad de Alicante, Alicante, Spain), Antonio Aldaz, Juan M. Feliu, Emmanuel Garnier, Ana López-Cudero, Francisco J. Vidal-Iglesias

Methanol and formic acid electrooxidation on shape-controlled Pt nanoparticles

11:10 to 11:30

Coffee Break

11:30 to 11:50

Jean-Francois Drillet (Dechema e. V., Frankfurt a. M., Germany), Ursula Dettlaff, Roland Dittmeyer, Klaus Jüttner, Siegmar Roth

Preparation and Characterisation of Single-Wall Carbon Nanotubes for Catalyst Support in the DMFC Anode

11:50 to 12:10

Zenonas Jusys (Institute of Surface Chemistry and Catalysis, Ulm University, Ulm, Germany), Rolf Jürgen Behm, Malgorzata Chojak

Methanol Oxidation over Pt/C Catalyst at Elevated Temperatures and Pressures: An On-line Electrochemical Mass Spectrometry Study

12:10 to 12:30

Enrique Herrero (Instituto de Electroquímica, Universidad de Alicante, Alicante, Spain), Antonio Berna, Vinicius Del Colle, Juan M. Feliu, Germano Tremiliosi-Filho

Ethanol Electrooxidation onto Stepped Surfaces Decorated by Ru and Sn.

12:30 to 12:50

Eduardo Gonçalves Ciapina (Institute of Chemistry of Sao Carlos, University of Sao Paulo, São Carlos, Brazil), Ernesto Raphael González

Electro-oxidation of a CO monolayer on unsupported Pt agglomerates

12:50 to 13:10

Patricia Hernandez Fernandez (Departamento de Quimica Fisica Aplicada C-II, Madrid, Spain), Hector D Abruña, Jose Luis G Fierro, Patricia Hernandez Fernandez, Manuel Montiel, Pilar Ocon, Sergio Rojas, Hongsei Wang

Catalytic activity and methanol tolerance of PtRuCo/C in the oxygen reduction reaction

Symposium 10: General Session

Location: Room 215 (Floor P1)

Chair: G. Lang, I. Vandendael

10:50 to 11:10 *Invited*

Andrzej Lasia (Departement de Chimie, Universite de Sherbrooke, Canada), Hugues Duncan, Manuel Martin

Properties of Thin Pd Layers Towards Hydrogen Sorption

11:10 to 11:30

Coffee Break

11:30 to 11:50

Jekaterina Kuleshova (School of Chemistry, Southampton, United Kingdom), Joanne Elliott

Hydrodynamic modulated voltammetry using a pulsating jet system

11:50 to 12:10

Andrei Ionut Mardare (Max-Planck Institut fuer Eisenforschung, Duesseldorf, Germany)

Combinatorial microelectrochemistry on binary Fe, Al, Hf and Ti alloys using an automated scanning droplet cell

12:10 to 12:30

Aliaksei Boika (Department of Chemistry, University of Saskatchewan, Saskatoon, Canada), Andrzej S. Baranski

Applications of Hot Microelectrodes

12:30 to 12:50

Kirsi Yliniemi (Helsinki University of Technology, TKK, Finland), Violeta Barranco, Maija Huuppola, Kyösti Kontturi, Marjatta Vahvaselkä

Different Approaches for Surface Modifications: Inhibition of Copper Corrosion and Surfaces with Strongly Adhering Ag Nanoparticles

12:50 to 13:10

Tabrisur Rahman Khan (Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf, Germany)

Electrolytic co-deposition of SiO_2 nanoparticles with zinc for improvement of corrosion protection

Thursday 11 September 2008

9:00-10:00	**Plenary lecture: Professor Richard G. Compton - Main Theatre (Salón de Actos)**										
	S1	**S2**	**S3**	**S4**	**S5**	**S5-B**	**S6**	**S7**	**S8**	**S8-B**	**S10**
	Salón de Grados	**Room 210**	**Room 211**	**Room 209**	**Room 007**	**Room 213**	**Room 212**	**Room 214**	**Salón de Actos**	**Room 107**	**Room 215**
10:10-10:30	J. Rishpon	M. Arenz	C. Kranz	C. Barus	M.J. Ariza		K. Nisancioglu	Y. Dzyazko	H. Abruña	M. Bron	
10:30-10:50	L. Gorton	L. Kibler		T. Dolidze				J. Baron		I. Alonso	
10:50-11:10	C. Léger	N. García-Arenz	G. Rivas	S. Finger	E. Katz	W. Kutner	A.V. Benedetti	P. Millet	P. Novak	L. Zhuang	S.R. Waldvogel
11:10-11:30	Coffee Break										
11:30-11:50	G. Wilson	M. Osawa	G. Nöll	C. Krishnan	H. Randriamahazaka	J. Chamier	N. Fink	T. Chapman	M. Alias	N. Alonso-Vante	E. Petrucci
11:50-12:10			O. Toikkanen		W. Plieth	L. Cabrera	K.-M. Mangold		R. Alcántara	R. Tunold	L. Trnkova
12:10-13:10	**General Assembly**										

Lunch

14:10-15:10	Poster session / coffee **Symposiums S6, S7, S8, S9 & S10**										
15:10-15:30	A. Merkoci	R.W. Fawcett	A. Kycia	S.K. Palathedath	M. Vorotynsev	C. Fournier	I. Serebrennikova	G. Schiller	D. Tonti	U. Stimming	D. Centonze
15:30-15:50	J. Labuda		A.G. Crevillén	R. Hillman	K. Uosaki	R.M. Torresi		V. Minsier	Sang Bok Ma	N. Toshima	Z.M. Redha
15:50-16:10	E. Palecek	T. Pajkossy	F. Deiss	C. Combellas	S. Piazza	V. Tsakova	V. Zamlynny	A. Scaffidi	Z. Wronski	I. Radev	G. Snook
16:10-16:30	M. Fojta	J. Mostany	G. Marrazza		J.M. Montero	C. Debiemme-C.	J.B. Jorcin		P. Maire	O. Khazova	
16:30-16:50	Coffee Break										
16:50-17:10	M. Adachi	W. Schmickler	A. Downard	J. Chen	H. Tsuchiya	K. Wessels	T. Breugelmans	A.M. Polcaro	K. Naoi	C. Argirusis	E. Vieil
17:10-17:30	J. Iniesta	A. Hubin	P. Baker	F. Montilla		J.Y. Kim	A. Castela	K. Groenen S.		A. Maljusch	J, Márquez
17:30-17:50		M. Hromadová		C. Visy	J. Kunze				J.F. Martin	S. Pronkin	T. Takamura

17:50-18:50	Poster session **Symposiums S6, S7, S8, S9 & S10**

21:00	GALA DINNER

Thursday 11 September 2008 - AM

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells

Salón de Grados (Floor PA)

Chair: Lo Gorton, Judith Rishpon

10:10 to 10:30 *Invited*

Judith Rishpon (Molecular Microbiology and Biotechnology, Tel-Aviv, Israel)

Highly Sensitive Nanoparticles Modified Electrodes for Fast Diagnostics

10:30 to 10:50

Lo Gorton (Department of Biochemistry, Lund University, Lund, Sweden)

Wiring of Living Bacterial Cells with Different Electron Transport Mediators

10:50 to 11:10 *Invited*

Christophe Léger (Laboratory of Bioenergetics and Engineering of Proteins, Marseille Cedex 20, France), Patrick Bertrand, Bénédicte Burlat, Sébastien Dementin, Juan Fontecilla-Camps, Bruno Guigliarelli, Fanny Leroux, Marc Rousset, Anne Volbeda

Inhibition of Hydrogenases by Oxygen: Electrochemical Studies of Mutants Designed to Increase the Enzyme's Resistance by Blocking Oxygen Access to the Active Site

11:10 to 11:30

Coffee Break

11:30 to 12:10 *Keynote*

George Wilson (Department of Chemistry, Lawrence, USA), Daniel Aillon, David Johnson, Erik Naylor

Probing Energy Utilization in the Rat Brain Using Biosensors

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

Location: Room 210 (Floor P1)

Chair: Antonio Rodes

10:10 to 10:30 *Invited*

Matthias Arenz (Physical Chemistry, Technical University Munich, Garching, Germany), Sean Ashton, Karl J. J. Mayrhofer, Josef Meier, Gustav Wiberg

Durability investigations of high surface area catalysts for polymer electrolyte fuel cells

10:30 to 10:50

Ludwig Kibler (Institut für Elektrochemie, Universität Ulm, Ulm, Germany), Yvonne Pluntke

Hydrogen evolution at PdAu(111) surface alloys

10:50 to 11:10

Nuria Garcia-Araez (Instituto de Electroquímica, Universidad de Alicante, Alicante, Spain), Victor Climent, Juan Feliu

Water reorientation on adatom-modified Pt(111) from nanosecond laser pulsed experiments

11:10 to 11:30

Coffee Break

10:30 to 12:10 *Keynote*

Masatoshi Osawa (Catalysi Research Center, Hokkaido University, Sapporo, Japan), Kazuhiro Mogami, Gabor Samjeske, Minoru Tshushima

Structure of Water at the Pt/acid Interface: An Infrared Study

Symposium 3: Electroanalytical Chemistry at the Nanoscale

Location: Room 211 (Floor P1)

Chair: Tomokazu Matsue, Ligia Maria Moretto

10:10 to 10:50 *Keynote*

Christine Kranz (School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, USA)

Electrochemical Imaging at the Nanoscale – Challenges and Opportunities

10:50 to 11:10 *Invited*

Gustavo Rivas (Departamento de Ciencias Químicas de Fisicoquímica, Facultad, Córdoba, Argentina), Esperanza Bermejo, Soledad Bollo, Manuel Chicharro, Nancy Ferreyra, Yamile Jalit, Guillermina Luque, Marcela Rodríguez, María Rubianes, Alberto Sánchez, Antonio Zapardiel

Glassy carbon electrodes modified with carbon nanotubes dispersed in polyethylenimine and polylysine: Analytical applications

11:10 to 11:30

Coffee Break

11:30 to 11:50 *Invited*

Gilbert Nöll (Analytical Chemistry, Lund, Sweden), Bernhard Dick, Martin Grininger, Dieter Oesterhelt, Eva-Kathrin Sinner, Sibylle Trawöger, Madlene von Sanden-Flohe

Electrochemical and Photochemical Switching of the Flavopotein Dodecin and Applications in Nanotechnology

11:50 to 12:10

Outi Toikkanen (Laboratory of Physical Chemistry and Electrochemistry, Helsinki University of Technology, Espoo, Finland), Sanna Carlsson, Bernadette Quinn

Synthesis and Stability of Monolayer Protected Au38 Clusters

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers

Location: Room 209 (Floor P1)

Chair: Francisco Montilla, Richard Nichols

10:10 to 10:30

Carole Barus (Laboratoire de Génie Chimique, Toulouse Cedex 9, France), Maurice Comtat, Pierre Gros, Laure Latapie

Use of cyclic voltammetry to investigate chemical reaction between antioxidant molecules

10:30 to 10:50 *Invited*

Tina Dolidze (Institute of Molecular Biology and Biophysics, Tbilisi, Georgia), Dimitri Khoshtariya, Sandra Rondinini, Rudi Vaneldik, David Waldeck

Dynamic Effect of "Protein Friction" as Revealed by High Pressure and Mixed-SAM Bioelectrochemical Strategies

10:50 to 11:10

Sebastian Finger (Bioelectrochemistry Laboratory, Chemical and Pharmaceutical Sci. Faculty, University of Chile, Santiago, Chile)

Chiral Modified Gold Electrodes

11:10 to 11:30

Coffee Break

11:30 to 12:10 *Keynote*

Chirakkal Krishnan (Science Department, Bohemia, USA), Benjamin Chu, Merrill Garnett

Spatio-temporal oscillations in biological molecules: 5. N-acetyl-L-cysteine-molybdate

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

Location: Room 007 (Floor PB)

Chair: Sachiko Ono, Kohei Uosaki

10:10 to 10:50 *Keynote*

Maria J. Ariza (Applied Physics Department, University of Almeria, Almeria, Spain)

Conducting Polymers Applied to Develop Membranes with Controllable Ionic Selectivity

10:50 to 11:10

Evgeny Katz (Department of Chemistry & Biomolecular Science, Clarkson University, Potsdam, USA), Venkateshwarlu Gopishetty, Zhou Jean, Tam Tsz Kin, Sergiy Minko, Maryna Ornatska, Marcos Pita

"Smart" Switchable Electrodes and Membranes for Bioelectrochemical Applications

11:10 to 11:30

Coffee Break

11:30 to 11:50

Hyacinthe Randriamahazaka (ITODYS, CNRS UMR 7086, Université Paris, Denis Diderot, Paris 7, Paris, France), Vincent Noel

Nucleation and growth mechanism during the redox switching dynamics of poly(3,4-ethylenedioxythiophene)

11:50 to 12:10

Waldfried Plieth (Technische Universitaet Dresden, Dresden, Germany), Xuan-Dung Dang, Salim Ok, Ulrich Scheler

New materials by copolymerization of conducting polymers

Symposium 5b: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

Location: Room 213 (Floor P1)

Chair: Mikheil Vorontyntsev, Hiroki Habazaki

10:50 to 11:10

Wlodzimierz Kutner (Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, Poland), Francis D' Souza, Emilia Grodzka, Piotr Pieta, Andrzej Sadkowski, Ganesh M. Venukadasula, Magdalena Warczak, Krzysztof Winkler

Electrochemical preparation of a composite of the C60-based conducting polymer and single-wall carbon nanotubes, and its selected properties

11:10 to 11:30

Coffee Break

11:30 to 11:50

Jessica Chamier (Department of Chemistry and Polymer Sciences, University of Stellenbosch, Council for Science and Industrial Research, Natural Resources and the Environment, Stellenbosch, South Africa), Andrew M. Crouch, Joy Leaner

Immobilised fluorescent chemosensor on TiO_2 for on-site determination of mercury (II) in aqueous solutions

11:50 to 12:10

Lourdes Cabrera (Química-Física Aplicada; Universidad Autónoma de Madrid, Madrid, Spain), Lourdes Cabrera, Silvia Gutierrez, Pilar Herrasti, Nieves Menendez, María del Puerto Morales

Electrochemical Generation of Magnetite and Synthesis of Magnetite-Polypyrrole composites

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications

Location: Room 212 (Floor P1)

Chair: Ramon Novoa, Kemal Nisancioglu

10:10 to 10:50 *Keynote*

Kemal Nisancioglu (Norwegian University of Science and Technology, Trondheim, Norway)
Effect of Low Melting Point Trace Element Segregation on Electrochemistry and Corrosion of Aluminum Alloys

10:50 to 11:10

Assis Vicente Benedetti (Instituto de Química da Universidade Estadual Paulista, Araraquara, Brazil), Sergi Dosta, José M. Guilemany, Marina Magnani, Patricia H. Suegama
Investigation of the corrosion behavior of cermet coatings thermally sprayed on aluminum alloy.

11:10 to 11:30

Coffee Break

11:30 to 11:50

Nicole Fink (Max-Planck-Institut fuer Eisenforschung, Duesseldorf, Germany), Guido Grundmeier, Galina Klimow, Markus Valtiner
Investigation of Forming Behaviour of Ultra-Thin Hybrid Conversion Layers on Zinc Coated Steel

11:50 to 12:10

Klaus-Michael Mangold (Karl-Winnacker-Institut, DECHEMA e.V., Frankfurt am Main, Germany), Dietmar Ende, Stefanie Hild
Electrochemically Prepared Magnesium Particles for Local Corrosion Protection

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes

Location: Room 214 (Floor P1)

Chair: Christos Comninellis, Sandra Rondinini

10:10 to 10:30

Yuliya Dzyazko (V.I. Vernadskii Institute of General & Inorganic Chemistry, Kiev, Ukraine)
Ion Transport Through Macroporous Membrane Modified With Nanoparticles of Inorganic

10:30 to 10:50

Janet Baron (Department of Chemistry, University of Guelph, Guelph, Canada), Anna Frydrychewicz, Jacek Lipkowski, Slawomir Sek, Grzegorz Szymanski
Kinetic studies of the thiosulfate leaching of gold in the presence of organic additives

10:50 to 11:10

Pierre Millet (Université Paris Sud 11, Orsay, France), Claude Etiévant, Claude Etiévant, Vladimir Fateev, Vladimir Fateev, Serguey Grigoriev, Serguey Grigoriev, Christophe Puyenchet, Christophe Puyenchet
GenHyPEM : a research program on PEM water electrolysis supported by the European Commission

11:10 to 11:30

Coffee Break

11:30 to 12:10 *Keynote*

Thomas Chapman (Chemical Engineering Department, University of Wisconsin-Madison, Washington, USA)
Calculation of Ionic Transport to Electrodes

Symposium 8: Electrochemical Energy Conversion and Storage

Location: Main Theatre (Salón de Actos, Floor PB)

Chair: Robert Kostecki

10:10 to 10:50 *Keynote*

Hector Abruna (Department of Chemistry and Chemical Biology, Cornell University, Ithaca, USA)
Electrical Energy Generation and Storage: Fuel Cells, Lithium Ion Batteries and SuperCaps

10:50 to 11:10

Petr Novak (Paul Scherrer Institute, Villigen PSI, Switzerland), Dietrich Goers, Matthias Hahn, Rüdiger Kötz, Patrick W. Ruch, Michael E. Spahr, Joachim Ufheil
In Situ Electrochemical Dilatometry: Lithium Intercalation into Carbon Electrodes

11:10 to 11:30

Coffee Break

11:30 to 11:50

Melanie Alias (CEA/DRT/LITEN/DTNM/LCE, Grenoble, France), Mickaël Boinet, Thierry Brousse, Frédéric Le Cras
In situ monitoring of silicon negative electrode for lithium ion batteries by an acoustic emission technique

11:50 to 12:10

Ricardo Alcántara (Lab. Química Inorgánica, Córdoba, Spain), Gregorio Ortiz, Radostina Stoyanova, José Luis Tirado, Meglena Yoncheva, Ekaterina Zhecheva
Effect of the precursors on the structure, local cationic distribution and electrochemistry of $LiNi_{1/2}Mn_{1/2}O_2$ electrodes

Symposium 8b: Electrochemical Energy Conversion and Storage

Location: Room 107 (Floor E1)

Chair: Elton Cairns, Prof. Andrea Russell

10:10 to 10:30

Michael Bron (Ruhr-Universität Bochum, Analytische Chemie, Elektroanalytik & Sensorik, Nachwuchsgruppe Brennstoffzellen, Bochum, Germany), Xingxing Chen, Christian Kulp, Tharamani Chikka Nagaiah, Wolfgang Schuhmann
Strategies in catalyst development for PEM fuel cells

10:30 to 10:50

Ivone Alonso (Centro de Investigacion en Materiales Avanzados S.C., Chihuahua, Mexico), Lorena Álvarez- Contreras, Ysmael Verde
Synthesis and Characterization of Pt/MCM41 for Use in Anode PEM Fuel Cells

10:50 to 11:10

Lin Zhuang (Department of Chemistry, Wuhan University, Wuhan, China), Hector Abruna, Juntao Lu, Li Xiao
Activating Pd by Morphology Tailoring for ORR

11:10 to 11:30

Coffee Break

11:30 to 11:50

Nicolas Alonso-Vante (Laboratory of Electrocatalysis, CNRS UMR-CNRS 6503, University of Poitiers, Poitiers, France), Laure Timperman
Oxide Substrate Effect and Tolerance Enhancement of Platinum Nanocatalysts

11:50 to 12:10

Reidar Tunold (Department of Materials Science and Engineering, Norwegian University of Science and Technology (NTNU), Trondheim, Norway), Rune Halseid

Hydrogen Oxidation on Pt-Ru PEM Anodes, Mechanism, Effective Mass Transfer and Effect of CO_2 and inert gases

Symposium 10: General Session

Location: Room 215 (Floor P1)

Chair: G. Snook, Z. Samec

10:50 to 11:10 *Invited*

Siegfried R. Waldvogel (Kekulé-Institute for Organic Chemistry and Biochemistry, University of Bonn, Bonn, Germany), Andreas Fischer, Ulrich Griesbach, Axel Kirste, Itamar M. Malkowsky, Hermann Pütter

Novel Anodic Concepts for the Ortho-selective Phenol Coupling Reaction

11:10 to 11:30

Coffee Break

11:30 to 11:50

Elisabetta Petrucci (Department of Chemical Engineering Materials and Environment, Roma, Italy), Carlo Merli, Daniele Montanaro

Electrochemical Synthesis of Trimetaphosphate on a Boron-Doped Diamond Electrode

11:50 to 12:10

Libuse Trnkova (Department of Chemistry, Faculty of Science, Masaryk University Brno, Brno, Czech Republic), Oldrich Dracka

Elimination Voltammetry of an Irreversible Electrode Process with the Preceding Chemical Reaction for a Totally Adsorbed Electroactive Substance

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells

Salón de Grados (Floor PA)

Chair: Jan Labuda, Miroslav Fojta

15:10 to 15:30 *Invited*

Arben Merkoci (UAB & ICN, Bellaterra, Spain), Adriano Ambrosi

Sensing DNA and proteins via tagging with nanoparticles

15:30 to 15:50

Jan Labuda (Institute of Analytical Chemistry, Faculty of Chemical and Food Technology, Slovak University of Technology in Bratislava, Bratislava, Slovakia), J. Galandova

DNA biosensors based on screen-printed carbon electrodes with carbon nanotubes and chitosan interface

15:50 to 16:10 *Invited*

Emil Palecek (Institute of Biophysics ASCR, v.v.i., Brno, Czech Republic)

Trends in protein and nucleic acid electroanalysis

16:10 to 16:30

Miroslav Fojta (Institute of Biophysics ASCR, v.v.i., Brno, Czech Republic), Hana Cahova, Ludek Havran, Michal Hocek, Petra Horakova, Pavel Kostecka, Hana Pivonkova, Jan Vacek, Milan Vrabel

Introducing Electrochemically Active Labels into DNA: Applications in Analysis of DNA Sequences and Sensing of DNA Damage

16:30 to 16:50

Coffee Break

16:50 to 17:10

Masanori Adachi (EBARA Resarch CO., LTD., Fujisawa, Japan)

High Performance MFCs with a Mediator-Polymer Modified Anode and Metal Reducing Bacteria

17:10 to 17:30

Jesus Iniesta (Physical Chemistry and Institute of Electrochemistry, University of Alicante, San Vicente, Alicante, Spain), Luis A. Alcaraz, Helen J. Cooper, Maria Deseada Esclapez-Vicente, John Heptinstall, Victor Mikhailo, Mario Piccioli, David J. Walton

Selectively electrochemical modification of proteins on platinum and boron-doped diamond (BDD) electrodes: nitration of lysozyme and myoglobin.

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

Session dedicated to Profs. Jan Sluyters and Margaretha Sluyters-Rehbach in recognition of their significant contributions to physical and interfacial electrochemistry

Location: Room 210 (Floor P1)

Chair: Rafael Andreu, Marc Koper

15:10 to 15:50 *Keynote*

Ronald W. Fawcett (Department of Chemistry, University of California at Davis, Davis, USA)

Monte Carlo Studies of Ion Size Effects in the Diffuse Double Layer

15:50 to 16:10

Tamás Pajkossy (Institute of Materials and Environmental Chemistry Chemical Research Center, Hungarian Academy of Sciences, Budapest, Hungary), Dieter Kolb

Interfacial capacitance of the platinum-group metals in aqueous solutions

16:10 to 16:30

Jorge Mostany (Departamento de Química, Universidad Simón Bolívar, Caracas, Venezuela), Carlos Borras, David Mazaira, Benjamin Scharifker

Hierarchical overlap of diffusion zones: a Monte Carlo study for a new model of multiple nucleation with diffusion controlled three-dimensional growth

16:30 to 16:50 **Coffee Break**

16:50 to 17:10

Wolfgang Schmickler (Institue of Theoretical Chemistry, Ulm, Germany), Renat Nazmutdinov, Eckard Spohr, Florian Wilhelm

Proton Transfer to Metal Electrodes from the Kinetic and Mechanistic Viewpoint

17:10 to 17:30

Annick Hubin (Vrije Universiteit Brussel, Dept. Metallurgy, Electrochemistry and Materials Science, Brussels, Belgium), Kitty Baert, Orlin Blajiev, Herman Terryn

Electrochemical, spectroscopic and computational study of molecular adsorption on Ag.

17:30 to 17:50

Magdaléna Hromadová (J. Heyrovský Institute of Physical Chemistry of ASCR, v.v.i., Praha, Czech Republic), Jana Bulická, Lubomír Pospíšil, Romana Sokolová

Cationic Catalysis and Current Oscillations in the Reduction of Aromatic Nitrocompounds.

Symposium 3: Electroanalytical Chemistry at the Nanoscale

Location: Room 211 (Floor P1)

Chair: Maria Encarnacion Lorenzo, Chee-Seng Toh

15:10 to 15:30

Annia Kycia (Department of Chemistry, University of Guelph, Guelph, Canada), Jacek Lipkowski, Slawomir Sek

Electrochemical and STM studies of the adsorption of 1-thio-ß-D-glucose on Au(111): Foundation for the design of a tethered-lipid bilayer membrane

15:30 to 15:50

Agustín González Crevillén (Química Analítica, Alcalá de Henares, Spain), Alberto Escarpa, Cristina González, Martin Pumera

Analytical evaluation of carbon nanotubes as electrochemical detectors in Ce microchips using water-soluble vitamins

15:50 to 16:10

Frederique Deiss (Université de Bordeaux 1, Pessac, France), Patrick Garrigue, Sébastien Laurent, Thierry Livache

Ordered microarrays of opto-electrochemical nanosensors with electropolymerized thin film for DNA detection

16:10 to 16:30

Giovanna Marrazza (Department of Chemistry, Sesto Fiorentino (Firenze), Italy), Francesca Berti, Guido Faglia, Luca Lozzi, Marco Mascini, Ilaria Palchetti, Sandro Santucci, Giorgio Sberveglieri

New nanostructured materials for genosensor sensing

16:30 to 16:50 **Coffee Break**

16:50 to 17:10 *Invited*

Alison Downard (Department of Chemistry, University of Canterbury, Christchurch, New Zealand), David Garrett, Joshua Lehr

Spontaneous Grafting of Aryldiazonium Salts: A New Approach to Microcontact Printing

17:10 to 17:30

Priscilla Baker (Chemistry, Bellville, South Africa), Amir Al-Ahmed, Emmanuel Iwuoha, David Key, Zelo Mangombo, Tesfaye Waryo

Electrochemcical Impedance Analysis of L-phenylalanine Biosensor Constructed on a Conductive Polymer Modified Boron Doped Diamond Platform

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers

Location: Room 209 (Floor P1)

Chair: Ladislav Kavan, Gérard Bidan

15:10 to 15:30

Suresh Kumar Palathedath (Soft Condensed Matter Laboratory, Raman Research Institute, Bangalore, India), Lakshminarayanan Vedagiri

Electrochemical Studies of Redox Probes in Self-Organized Lyotropic Liquid Crystalline Systems

15:30 to 15:50 *Invited*

Robert Hillman (University of Leicester, Leicester, United Kingdom), Robert Cubitt, Robert Dalgliesh, Andrew Glidle, Phil Pearson, Karl Ryder, Emma Smith

Influence of solvation on structure and dynamics of functionalized polypyrrole films

15:50 to 16:30 *Keynote*

Catherine Combellas (Environnement et Chimie Analytique, Paris, France)

Electrografting of Insulating Surfaces

16:30 to 16:50

Coffee Break

16:50 to 17:10

Jingyuan Chen (Department of Applied Physics, University of Fukui, Fukui, Japan), Koichi Aoki

Size-dependent efficiency of electron transfer at suspended redox latex

17:10 to 17:30 *Invited*

Francisco Montilla (Inst. Universit. de Materiales de Alicante, Universidad de Alicante, Alicante, Spain)

Electrochemical Fluorescence Spectroscopy: A Powerful Tool for the Characterization of Conjugated Polymers.

17:30 to 17:50

Csaba Visy (Institute of Physical Chemistry, University of Szeged, Szeged, Hungary), Gábor Bencsik, Csaba Janáky, Emese Kriván

Conducting polymer-based composite catalysts for photo-, magneto- and bio-electrochemistry

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

Location: Room 007 (Floor PB)

Chair: Waldfried Plieth, Wlodzimierz Kutner

15:10 to 15:30 *Invited*

Mikhail Vorotyntsev (ICMUB - UMR 5260, Universite de Bourgogne, Dijon Cedex, France), Magdalena Graczyk, Anna Lisowska-Oleksiak, Aleksandra Rajchowska, Magdalena Skompska

Synthesis and Characterization of Hybrids Materials: Conducting Polymer/Incorporated Ag Nanoparticles

15:30 to 15:50

Kohei Uosaki (Division of Chemistry, Graduate School of Science, Hokkaido University, Sapporo, Japan), Ken Kitamura, Satoru Takakusagi

***In situ* Real-time Monitoring of Electrochemical Ag Deposition on a Reconstructed Au(111) Surface Studied by Scanning Tunneling Microscopy**

15:50 to 16:10

Salvatore Piazza (Dipartimento di Ingegneria Chimica dei Processi e dei Materiali, Università di Palermo, Palermo, Italy), Rosalinda Inguanta, Carmelo Sunseri

Growth and photo-electrochemical behaviour of Cu_2O nanowires

16:10 to 16:30

J.M. Montero (Electrodep, Dept. Química Física, Universitat de Barcelona, Barcelona, Spain), M. Belenguer, C. Müller, M. Sarret

Electrochemical nucleation of silver on Ni nanoelectrodes

16:30 to 16:50

Coffee Break

16:50 to 17:30 *Keynote*

Hiroaki Tsuchiya (Division of Materials and Manufacturing Science, Graduate School of Engineering, Osaka University, Osaka, Japan)

Metallurgical aspects on the formation of self-organized anodic oxide nanotube layers

17:30 to 17:50

Julia Kunze (University of Erlangen-Nürnberg, Department of Materials Science, Erlangen, Germany), Steffen Berger, Darren LeClere, Patrik Schmuki, Peter Skeldon, George E. Thompson, Anna Valota

High efficiency TiO_2 nanotubes – Tracer investigation of pore formation

Symposium 5b: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

Location: Room 213 (Floor P1)

Chair: Ivan Krastev, Achim Walter Hassel

15:10 to 15:30

Claire Fournier (Institut Charles Gerhardt, A.I.M.E., Montpellier, France)

Silver-Palladium mesowires for the extended detection of H_2

15:30 to 15:50

Roberto M. Torresi (Instituto de Química, Universidade de São Paulo, São Paulo, Brazil), Fernanda F. C . Bazito, Marcelo J. Monteiro

Ether-chain-based Ionic Liquids for Improving Li^+ conductivity

15:50 to 16:10

Vessela Tsakova (Institute of Physical Chemistry,Bulgarian Academy of Sciences, Sofia, Bulgaria), Svetlozar Ivanov, Vladimir Lyutov, Vladimir Mirsky

Characteristics of Polyaniline Layers Electrochemically Synthesized in the Presence of a Sulfonic and the Corresponding Poly-sulfonic Acid

16:10 to 16:30

Catherine Debiemme-Chouvy (LISE UPR15 du CNRS, Université P. et M. Curie, Paris, France)

Template-free electrosynthesis of polypyrrole nanowire arrays.

16:30 to 16:50

Coffee Break

16:50 to 17:10

Katrin Wessels (Institute of Physical Chemistry and Electrochemistry, Leibniz University Hannover, Hannover, Germany), Torsten Oekermann

Electrodeposition of highly porous TiO_2 films for dye-sensitized solar cells

17:10 to 17:30

Ji-Young Kim (Department of Materials Science and Engineering, Yonsei University, Seoul, Korea), Kwang Heon Kim

Fabrication of Carbon Nanotube Films with Honey Comb-Like Structure

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications

Location: Room 212 (Floor P1)

Chair: Fatima Montemor, Irina Serebrennikova

15:10 to 15:50 *Keynote*

Irina Serebrennikova (Energizer, Westlake, USA), Jan Macak, Patrik Schmuki
Steel corrosion in alkaline battery environment

15:50 to 16:10

Vlad Zamlynny (Chemistry Depertment, Acadia University, Wolfville, Canada), Suzanne Blatt, Robyn Jackson, Stuart Read
***In situ* Investigation of Adsorption of Benzotriazole (BTA) on Au(111) using Polarization Modulation Infrared Reflection Absorption Spectroscopy (PM IRRAS)**

16:10 to 16:30

Jean-Baptiste Jorcin (Vrije Universiteit Brussels, Dept. Metallurgy, Electrochemistry and Materials Science (META), Brussels, Belgium), Emmanuel Aragon, Annick Hubin, Rik Pintelon
Modeling of the behavior of an organic coating using odd random phase multisine EIS.

16:30 to 16:50

Coffee Break

16:50 to 17:10

Tom Breugelmans (Vrije Universiteit Brussels, Dept. Metallurgy, Electrochemistry & Materials Science, Materials and Chemistry Group, Brussels, Belgium), Tom Hauffman, Rene Hausbrand, Annick Hubin, Herman Terryn, Els Tourwé, Jan Wielant
Odd random phase multisine EIS as a tool for coating optimization

17:10 to 17:30

António Castela (Escola Sup. de Tecnologia do Barreiro, Lavradio, Portugal), João Fernandes, João Torres
Statistical Analysis on SVET Results

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes

Location: Room 214 (Floor P1)

Chair: Claude Levy-Clement, Yoshio Takasu

15:10 to 15:30

Guenter Schiller (Deutsches Zentrum für Luft- und Raumfahrt (DLR), Institut für Technische Thermodynamik, Stuttgart, Germany), Asif Ansar, Michael Lang, Olaf Patz
Electrochemical Performance of Metal Supported Solid Oxide Cells Used for High Temperature Water Electrolysis

15:30 to 15:50

Vincent Minsier (Division of Materials and Process Engineering (IMAP), Université catholique de Louvain, Louvain-La-Neuve, Belgium), Juray De Wilde, Joris Proost
Influence of bubble dynamics on ultrasound assisted electrochemical processes

15:50 to 16:10 *Invited*

Adriana Scaffidi (Acta Spa, Crespina, Italy), Dele Ajala, Hubert Gasteiger, Michele Piana, Serena Santiccioli
Alkaline water electrolyzer technology: electrode catalysts development

16:10 to 16:50 **Coffee Break**

16:50 to 17:10

Annalisa Vacca (Dipartimento di Ingegneria Chimica e Materiali, Cagliari, Italy)
Electrochemical treatment of natural waters: formation of products and by-products.

17:10 to 17:30

Karine Groenen Serrano (Laboratoire de Génie Chimique, CNRS, Toulouse, France), André Savall, Pierre Spitéri, Elsa Weiss

Role of hydroxyl radicals during electrooxidation of organic compounds

Symposium 8: Electrochemical Energy Conversion and Storage

Location: Main Theatre (Salón de Actos, Floor PB)

Chair: Petr Novak

15:10 to 15:30

Dino Tonti (Instituto de Ciencia de Materiales de Madrid, Consejo Superior de Investigaciones Científicas (CSIC), Madrid, Spain), Eduardo Enciso, Jesus Sanz, Isabel Sobrados, Maria Jose Torralvo

Ordered Macroporous Lithium Manganese Oxide Spinels as Cathodes for Lithium Batteries

15:30 to 15:50

Sang Bok Ma (Department of Materials Science and Engineering, Yonsei University, Seoul, Korea), Kwang Bum Kim, Kyung Wan Nam, Sung Min Park

Lithium Manganese Oxide/Carbon Nanotube Nanocomposite with High Rate Capability

15:50 to 16:10

Zbigniew Wronski (CANMET Energy Technology Centre, Ottawa, Canada)

Electro-dilatometric Study of Hydrogen Ion Insertion into Materials for Electrochemical Energy Storage and Conversion: Ni hydroxides and NiAl LDHs

16:10 to 16:30

Pascal Maire (Paul Scherrer Institut, Electrochemistry Laboratory, Batteries, Villigen, Switzerland), Anna Evans, Hermann Kaiser, Petr Novák, Werner Scheifele

***In situ* colorimetric determination of lithium content in graphite anodes of lithium-ion batteries**

16:30 to 16:50

Coffee Break

16:50 to 17:30 *Keynote*

Katsuhiko Naoi (Tokyo University of Agriculture & Technology, Tokyo, Japan)

Recent Advances in Supercapacitors and Hybid Power Sources

17:30 to 17:50

Jean Frédéric Martin (Institut des Matériaux Jean Rouxel (IMN), CNRS UMR 6502, Université de Nantes, France, Nantes, France), Nicolas Dupré, Dominique Guyomard, Ryoji Kanno, Atsuo Yamada

$LiFePO_4$ powders: Synthesis and interface phenomena upon storage and cycling.

Symposium 8b: Electrochemical Energy Conversion and Storage

Location: Room 107 (Floor E1)

Chair: Claude Lamy, Masahiro Watanabe

15:10 to 15:30

Ulrich Stimming (Department of Physics E19, Technical University of Munich, Munich, Germany), Liqun Chen, Kelong Huang, Haibo Wang

Solid state protonic conductor $(NH_4)_2SnP_4O_{13}$ for intermediate temperature fuel cells

15:30 to 15:50

Naoki Toshima (Department of Materials Science and Environmental Engineering, Tokyo University of Science, Yamaguchi, SanyoOnoda, Japan), Takahiro Yoshimoto

Preparation and Electrocatalytic Activity of Nafion®-Protected Au-Pt Bimetallic Nanoparticles

15:50 to 16:10

Ivan Radev (Electrochemistry of Solid State Electrolytes, Institute of Electrochemistry and Energy Systems, Bulgarian Academy of Sciences, 1113 Sofia, Bulgaria), Georgi Georgiev, Vesselin Sinigersky

Electrochemical Investigation and Optimization of Proton Exchange Membranes for Electrochemical Hydrogen Energy Conversion

16:10 to 16:30

Olga Khazova (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry of the RAS, Moscow, Russian Federation), Alla Mikhailova, Vitalii Grinberg, Lyudmila Krasko, Natalia Maiorova, Alexander Smolkov

Membrane Composites of Nafion and Ion Track-Etched Polyethylenterephtalate Matrix for DMFC

16:30 to 16:50 **Coffee Break**

16:50 to 17:10

Christos Argirusis (TU CLausthal, Ins. f. Metallurgy, Clausthal-Zellerfeld, Germany), Galina Alikina, Lubsan Batuyev, Jorge Frade, Tamara Kharlamova, Tamara Kriger, Svetlana Pavlova, Vladislav Sadykov

Fe- and Al-doped Apatite Type Lanthanum Silicates as Electrolyte Materials for SOFCs

17:10 to 17:30

Artjom Maljusch (Anal. Chem., Elektroanalytik & Sensorik; Ruhr-Universität Bochum, Bochum, Germany), Michael Bron, Kathrin Eckhard, Wolfgang Schuhmann, Stefanie Schwamborn

Visualization of local catalyst activity towards oxygen reduction in hydrochloric acid solution with RC-SECM

17:30 to 17:50

Sergey Pronkin (Laboratoire des Materiaux, Surfaces et Procedes pour la Catalyse, Ecole de Chimie, Polymeres et Materiaux, UMR 7515, Strasbourg, France), Antoine Bonnefont, Fernando Godinez, Elena Savinova

Well-defined Pt electrocatalysts supported by novel TiO_2 substrates for fuel cell processes

Symposium 10: General Session

Location: Room 215 (Floor P1)

Chair: K. Mayrhofer, J. Marquez

15:10 to 15:30

Diego Centonze (DiSACD, Dipartimento di Scienze Agro-ambientali, Chimica e Difesa Vegetale, and BIOAGROMED, Università degli Studi di Foggia, Foggia, Italy), Daniela dell'Oro, Valeria Nardelli, Carmen Palermo, Manuela Petroianni

Pulsed amperometric detection for the determination of β-agonists in reverse-phase high performance liquid chromatography

15:30 to 15:50

Zainab Mohammed Redha (Chemical Engineering and Analytical Science, Manchester, United Kingdom)

Electrochemiluminescence Analysis in Miniaturised Disposable Polymer Microdevices

15:50 to 16:10

Graeme Snook (Division of Minerals, CSIRO, Clayton South, Australia), Mark Cooksey, Katherine McGregor, Andrew Urban

Fast Fourier Transform Method for Converting Resistometer (Current Pulse) Data to AC Impedance Data

16:30 to 16:50 **Coffee Break**

16:50 to 17:10

Eric Vieil (LEPMI (CNRS + Grenoble-INP + UJF), Saint Martin d'Hères, France)

Is Nernst Law universal?

17:10 to 17:30

Jairo Márquez (Universidad de Los Andes - Facultad de Ciencias - Departamento de Química, Mérida, Venezuela), Burguera Griceyd, Márquez Olga, Sindoni Yira, Martínez Yris

Carbon paste modified with copper and copper macrocycles for Electrochemical reduction of oxygen

17:30 to 17:50

Tsutomu Takamura (Department of Applied Chemistry, Harbin Institute of Technology, Harbin, China), Junji Suzuki

Comparison of the Rate of Diffusion of Lithium in Single-crystal and Poly-crystal Aluminum

Friday 12 September 2008

9:00-10:00	**Plenary lecture: Professor Zhong-Qun Tian - Main Theatre (Salón de Actos)**										
	S1	**S2**	**S2-B**	**S3**	**S4**	**S5**	**S5-B**	**S6**	**S7**	**S8**	**S10**
	Salón de Grados	**Room 210**	**Room 213**	**Room 211**	**Room 209**	**Room 007**	**Room 107**	**Room 212**	**Room 214**	**Salón de Actos**	**Room 215**
10:10-10:30	A. Vaskevich	T. Jacob	N. Hoshi	V. Gonçales	L. Kavan	I. Krastev		A. Gergely	C. Vayenas	A. Nyman	
10:30-10:50	P. Millner		G. Beltramo	D. O Hare				P. Bressers	V. Roche	S. Deki	
10:50-11:10	H.W. Yu	D.J. Fermin	C.M. Sánchez	K. Ozoemena	E. Maisonhaute	A. Möbius		M. Lekka	J.M Peralta-Hdez	Ling Huang	G. Weyns
11:10-11:30						K. Ichinose					
11:30-12:10	Coffee Break / Poster session **Symposiums S6, S7, S8, S9 & S10**										
12:10-12:30	A. Hill	E.J. Calvo	O. Magnussen	A.M. C. Paquim	P. Cea	F. Caballero-B.	M. Skompska	F. Montemor	E. Ruiz	J. Moskon	S. Van Damme
12:30-12:50		G.A. Tsirlina	G. Jerkiewicz	M. Skunik	G. Bidan	P. Bocchetta	J. Langmaier		A. Vertova	F.C. Walsh	G.G. Lang
12:50-13:10	I. Van de Keere	J. F. Sanz	P. Rodriguez	J.O. Holguín	B. Fabre	M. Rohwerder	W. Vonau	H. Vezlaff		J.M. Amarilla	
13:10-13:30	**Closing ceremony**										

Friday 12 September 2008

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells

Salón de Grados (Floor PA)

Chair: Paul Millner, Phillip Bartlett

10:10 to 10:30 *Invited*

Alexander Vaskevich (Department of Materials and Interfaces, Weizmann Institute of Science, Rehovot, Israel), Tatyana A. Bendikov, Tanya Karakouz, Israel Rubinstein, Alexander Tesler

Localized Surface Plasmon Resonance (LSPR) Spectroscopy in Biosensing

10:30 to 10:50

Paul Millner (IMSB/FBS, Leeds, United Kingdom), Morsaline Billah, Frank Davis, Tim Gibson, Henry Hays, Seamus Higson, Mark Rodgers, Alex Vakurov

Affinity directed construction of amperometic biosensors and impedimetric reagentless immunosensors - letting the sensor construct itself

10:50 to 11:10

Hye-Weon Yu (Department of Environmental Science and Engineering, Gwangju Institute of Science and Technology (GIST), Gwangju, Korea), Nguyen Huong Giang, Sung-Min Kim, Jinwook Lee

Optimization and Characterization of Quantum Dot-Antibody Conjugation for Efficient Electrochemical Bio-Label as a Biosensing Tool

11:10 to 12:10

Coffee Break / Poster Session

12:10 to 12:50 *Keynote*

Allen Hill (Oxford Biosensors Ltd, Yarnton, United Kingdom), Julie Deacon, Stuart Evans, Alex Harris

The MultiSense Electrode: a Platform Technology

12:50 to 13:10

Isabel Van De Keere (Department of Metallurgy, Electrochemistry and Materials Sciences,Vrije Universiteit Brussels, Brussels, Belgium), Annick Hubin, Jean Vereecken

Electrochemical Study of the Adsorption Behaviour of Human Plasma Fibrinogen and Hen Egg White Lysozyme on Ti Combined With *in situ* Ellipsometry, and *in situ* AFM

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

Location: Room 210 (Floor P1)

Chair: Ezequiel Leiva

10:10 to 10:50 *Keynote*

Timo Jacob (Institut für Elektrochemie, Universität Ulm, Ulm, Germany)

Theoretical Studies on Adsorbate-Induced Faceting of Ir and Re Surfaces

10:50 to 11:10

David J. Fermin (School of Chemistry, University of Bristol, Bristol, United Kingdom), Christopher R. Bradbury, Jianjun Zhao

Distance Independent Charge Transfer Resistance across Nanoscale Metal-Insulator-Metal Junctions

11:10 to 12:10

Coffee Break / Poster Session

12:10 to 12:30

Ernesto Julio Calvo (INQUIMAE. Fac. Ciencias Exactas, Universidad de Buenos Aires, Buenos Aires, Argentina), Mario Tagliazucchi, Miguel Angel Vago, Federico Williams

Palladium Nanocatalyst Electrodeposited from Polyelectrolyte Nanoreactor

12:30 to 12:50

Galina A. Tsirlina (Faculty of Chemistry, Moscow State University, Moscow, Russian Federation), Nina V. Titova, Pavel A. Zagrebin

Corrected Plots in Electrochemical Kinetics: Beyond Tafel

12:50 to 13:10

Javier Fdez. Sanz (Dept. Physical Chemistry, University of Seville, Seville, Spain)

First Principles Simulations of Metal/Water Interfaces

Symposium 2b: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

Location: Room 213 (Floor P1)

Chair: Enrique Herrero

10:10 to 10:30

Nagahiro Hoshi (Department of Applied Chemistry and Biotechnology, Graduate School of Engineering, Chiba Univerisity, Chiba, Japan), Akira Nakahara, Masashi Nakamura, Osami Sakata, Kazushi Sumitani

Determination of Real Structures of High Index Planes of Platinum with *in situ* Surface X-ray Scattering

10:30 to 10:50

Guillermo Beltramo (Institut für Bio- und Nanosysteme, IBN4, Forschungszentrum Jülich, Jülich, Germany), Harald Ibach, Giesen Margret

Properties of vicinal surfaces in contact with an electrolyte

10:50 to 11:10

Carlos M. Sánchez-Sánchez (Dept. Chemistry and Biochemistry, The University of Texas at Austin, Austin, USA), Allen J. Bard, Joaquín Rodríguez-López

Study of the Oxygen Reduction Mechanism at Different Electrocatalysts by Quantification of their Product Selectivity Using Scanning Electrochemical Microscopy

11:10 to 12:10

Coffee Break / Poster Session

12:10 to 12:30 *Invited*

Olaf Magnussen (Institut für Experimentelle und Angewandte Physik, Christian-Albrechts-Universität Kiel, Kiel, Germany)

Transmission Surface X-ray Diffraction Studies of Electrochemical Interfaces

12:30 to 12:50

Gregory Jerkiewicz (Department of Chemistry, Queen's University, Kingston, Canada), Jean Lessard, Shin-ichi Tanaka, Gholamreza Vatankhah

Discovery of the Potential of Minimum Mass and Analysis of Its Importance to Interfacial Electrochemistry

12:50 to 13:10

Paramaconi Rodriguez (Leiden Institute of Chemistry, University of Leiden, Leiden, Netherlands), Juan M. Feliu, Marc Koper

Electrochemical and spectroscopic study of CO oxidation on gold single-crystal electrodes in alkaline media

Symposium 3: Electroanalytical Chemistry at the Nanoscale

Location: Room 211 (Floor P1)

Chair: Virginia Ruiz, José M. Pingarron

10:10 to 10:30

Vinicius Gonçales (Instituto de Química, Universidade de São Paulo, São Paulo, Brazil), Susana Córdoba de Torresi, Elaine Matsubara, José Maurício Rosolen

Carbon nanotube/felt composite electrode modified with Prussian Blue hybrid analogue. Application in biosensors

10:30 to 10:50 *Invited*

Danny O'Hare (Dept. of Bioengineering, London, United Kingdom), Eleni Bitziou, Bhavik Patel

Electroanalytical methods for real-time measurement of neurotransmitters

10:50 to 11:10

Kenneth Ozoemena (Department of Chemistry, Pretoria, South Africa)

Electron Transfer Dynamics of Novel C60-Metallophthalocyanine Conjugates

11:10 to 12:10

Coffee Break / Poster Session

12:10 to 12:30

Ana Maria Chiorcea Paquim (Departamento de Química, Universidade de Coimbra, Coimbra, Portugal), Oana Corduneanu, Victor Constantin Diculescu, Ana Maria Oliveira Brett

Palladium Nanoparticles and Nanowires Electrodeposited onto Carbon Electrodes: AFM and Electrochemical Studies

12:30 to 12:50

Magdalena Skunik (Department of Chemistry, University of Warsaw, Warsaw, Poland), Magda Chudek, Pawel J. Kulesza, Iwona Rutkowska

Electroanalytical Applications of Network Films of Carbon Nanotubes Modified with Ultra-Thin Films of Polyoxometallates and Conducting Polymers

12:50 to 13:10

Jahir Orozco Holguín (Micro and Nanosystems Deparment, Instituto de Microelectrónica de Barcelona, CNM-IMB, CSIC, Barcelona, Spain), César Fernández-Sánchez, Cecilia Jiménez-Jorquera

Gold nanoparticle-modified ultramicroelectrode arrays for copper detection in soil extract samples

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers

Location: Room 209 (Floor P1)

Chair: Catherine Combellas, Bernd Speiser

10:10 to 10:50 *Keynote*

Ladislav Kavan (J. Heyrovsky Institute of Physical Chemistry, Prague 8, Czech Republic), Ivan Exnar, Michael Graetzel

Nanotube-wiring: Enhancement of electrochemical activity of $LiFePO_4$ (olivine) by amphiphilic Ru-bipyridine complex anchored to a single walled carbon nanotube

10:50 to 11:10 *Invited*

Emmanuel Maisonhaute (Ecole Normale Supérieure, Paris, France), Christian Amatore, Bernd Schöllhorn

Charge transport through molecules: From ultrafast commutation to control of ionic movements.

11:10 to 12:10

Coffee Break / Poster Session

12:10 to 12:30

Pilar Cea (Departamento de Química Orgánica y Química Física e Instituto de Nanociencia de Aragón, Zaragoza, Spain), Ignacio Giner, Beatriz Giner, Marta Haro, Santiago Martín, Gorka Pera, Ana Villares

Fabrication of Langmuir – Blodgett films Containing a "Molecular Wire" Candidate

12:30 to 12:50 *Invited*

Gérard Bidan (Institute Nanosciences & Cryogeny, Grenoble cedex 09, France), Martial Billon, Julien Buckley, Guillaume Delapierre, Lionel Dubois, Florence Duclairoir, Benoit Fleury, Pierre Gouzerh, Nicoleta Joo, Anna Proust, René Thouvenot

Electrochemistry of new polyoxometallates, POMs, for molecular memory devices

12:50 to 13:10

Bruno Fabre (UMR 6226 Sciences Chimiques de Rennes, CNRS, Université de Rennes 1, Rennes, France), Soraya Ababou-Girard, Stephane Cordier, Christian Godet, Yann Molard, Christiane Perrin, Hussein Sabbah

Assembly of Metallic Clusters onto Silicon Surfaces

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

Location: Room 007 (Floor PB)

Chair: Thierry Pauporte, Estibalitz Ochoteco

10:10 to 10:50 *Keynote*

Ivan Krastev (Institute of Physical Chemistry, Bulgarian Academy of Sciences, 1113 Sofia, Bulgaria)

Electrodeposition of Self-Structured Silver Alloy Coatings

10:50 to 11:10 *Invited*

A. Möbius (Enthone GmbH, Langenfeld, Germany), F. Endres, A. Koenig, R. Pittner, C. Werner, G. Zeng

Ionic Liquids - a new challenge to plate in combination with reactor technology

11:10 to 11:30

Keigo Ichinose (Gifu University, Gifu, Japan), Tsukasa Yoshida

Epitaxial Electrodeposition of ZnO Thin Films on GaN Bulk Single Crystals

11:30 to 12:10

Coffee Break / Poster Session

12:10 to 12:30

Felipe Caballero-Briones (Department of Physical-Chemistry, Universitat de Barcelona, Barcelona, Spain), Juan Manuel Artés, Ismael Díez Pérez, Pau Gorostiza, Anna Palacios Padrós, Fausto Sanz

Photoelectrochemical and electronic characterization of Cu_2O layers prepared by Cu anodization in alkaline media

12:30 to 12:50

Patrizia Bocchetta (Dipartimento di Ingegneria Chimica, Università di Palermo, Palermo, Italy), Di Quarto Francesco, Monica Santamaria

Template-assisted electrodeposition of cerium oxy-hydroxide nanostructures in aqueous and organic electrolytes

12:50 to 13:10

Michael Rohwerder (Max-Planck-Institut für Eisenforschung, Düsseldorf, Germany), Adam Michalik

Long-range ion transport properties of conducting-polymers

Symposium 5b: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

Location: Room 107 (Floor E1)

Chair: Robert Dryfe, Hiroaki Tsuchiya

12:10 to 12:30

Magdalena Skompska (Department of Chemistry, Warsaw University, Warsaw, Poland), Monika Refczynska

Polymer/CdS Hybrid Electrodes for Photovoltaic Cells - Synthesis and Characterization

12:30 to 12:50

Jan Langmaier (J. Heyrovský Institute of Physical Chemistry of the ASCR, v.v.i., Prague 8, Czech Republic), Zdenek Samec

Voltammetric study of ion-transfer across a polarized RTIL membrane supported by a microporous filter

12:50 to 13:10

Winfried Vonau (Kurt-Schwabe-Institut für Mess- und Sensortechnik e.V. Meinsberg, Ziegra Knobelsdorf, Germany), Torsten Bachmann, Ute Enseleit, Frank Gerlach

Zinc oxide as functional component in electrochemical sensors with glasses as constructional elements

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications

Location: Room 212 (Floor P1)

Chair: Irina Serebrennikova, Fatima Montemor

10:10 to 10:30

András Gergely (Chemical Research Center of the Hungarian Academy of Sciences, Budapest, Hungary), Erika Kálmán, Ágnes Stahl

A Highly Conducting Nanocomposites for Corrosion Protecting Coatings based on Carbon Nanotubes

10:30 to 10:50

Peter Bressers (TNO Netherlands Organisation for Applied Scientific Research, Business Unit Materials Technology, Eindhoven, Netherlands), Roel Bisselink, Robert Gouwen, Peter Willemsen, John Zevenbergen

Corrosion of casing steel during CO_2 underground storage

10:50 to 11:10

Maria Lekka (Department of Materials Engineering and Industrial Technologies, University of Trento, Trento, Italy), Pier Luigi Bonora, Caterina Zanella, Gabriel Zendron

Evaluation of the pitting corrosion resistance of copper matrix electrodeposits containing micro/nano particles of SiC using E.I.S.

11:10 to 12:10

Coffee Break / Poster Session

12:10 to 12:50 *Keynote*

Fatima Montemor (ICEMS Instituto Superior Tecnico, Technical University of Lisbon, Lisboa, Portugal), Alexandre Bastos, Mario Ferreira, Sviatlana Lamaka, Mikhail Zheludkevich

Hybrid Silane Coatings Modified with Nano Additives Impregnated with Corrosion Inhibitors: A Synergistic Combination to Hinder Electrochemical Activity of Metallic Substrates Exposed Chloride-Containi

12:50 to 13:10

Hendrik Venzlaff (Max-Planck-Institut für Eisenforschung, Düsseldorf, Germany), Denis Enning, Achim Walter Hassel, Martin Stratmann, Friedrich Widdel

Microbial corrosion induced by a new highly aggressive SRB strain

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes

Location: Room 214 (Floor P1)

Chair: Emilia Morallon, Marco Musiani

10:10 to 10:30

Constantinos Vayenas (Department of Chemical Engineering, University of Patras, Patras, Greece), Achmed Hammad, Constantinos Koutsodontis, Evangelios Papaioannou, Stamatios Souentie

Electrochemical promotion of catalytic reactions with sputtered metal catalyst-electrode films in a monolithic electropromoted reactor

10:30 to 10:50

Virginie Roche (IRCELYON, Villeurbanne, France), Elodie Comte, Arnold Lambert, Thierry Pagnier, Renaud Revel, Laure Rodriguez-Perez, Philippe Vernoux

YSZ monolith for the electrochemical promotion of the deep oxidation of methane on Pd

10:50 to 11:10

J.M. Peralta-Hernández (Facultad de Ciencias Químicas, Universidad Autónoma de Nuevo León, México, Mexico), M. A. Quiróz Alfaro, E. Bandala González, Hernández Ramírez, Villanueva Rodríguez

Electrochemical generation of ferrate ion [Fe(VI)] in acidic media for dye organic compounds degradation in aqueous solution

11:10 to 12:10

Coffee Break / Poster Session

12:10 to 12:30

Edgar Ruiz (Centro de Investigación y Desarrollo Tecnológico en Electroquímica, CIDETEQ S.C. Departamento de Electroquímica, Sanfandila, Pedro Escobedo, Mexico), José L. Jurado, Yunny Meas, Raúl Ortega

Simultaneous Anodic and Cathodic Production of Sodium Percarbonate in Aqueous Solution

12:30 to 12:50

Alberto Vertova (Department of Physical Chemistry and Electrochemistry, The University of Milan, Milano, Italy), Gabriele Aricci, Giorgio Fiori, Cristina Locatelli, Alessandro Minguzzi, Sandra Rondinini

Electrochemical reduction of polychloromethanes from the gas phase

Symposium 8: Electrochemical Energy Conversion and Storage

Main Theatre (Salón de Actos, Floor PB)

Chair: Katsuhiko Naoi

10:10 to 10:30

Andreas Nyman (Applied Electrochemistry, School of Chemical Science and Engineering, Royal Institute of Technology, KTH, Stockholm, Sweden), Mårten Behm, Göran Lindbergh

Characterisation and Modelling of the Mass Transport Phenomena in Li-ion Battery Electrolytes

10:30 to 10:50

Shigehito Deki (Department of Chemical Science and Engineering, Graduate School of Engineering, Kobe University, Kobe, Japan), Yusuke Hayashi, Minoru Mizuhata

Effect of Solid Surface Properties on Transport Properties of Non-aqueous Lithium Electrolyte Solution

10:50 to 11:10

Ling Huang (Department of Chemistry, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen, China), Jin-Shu Cai, Ling Huang, Fu-Sheng Ke, Shi-Gang Sun, Hong-Bing Wei

Electrodeposition and electrochemical properties of Fe_3O_4 nanowall electrodes for Lithium ion batteries

11:10 to 12:10

Coffee Break / Poster Session

12:10 to 12:30

Joze Moskon (Laboratory for Materials Electrochemistry, National Institute of Chemistry Slovenia, Ljubljana, Slovenia), Robert Dominko, Miran Gaberscek, Janko Jamnik

The importance of inter-phase contacting in mass and charge transport in Li ion cathodes

12:30 to 12:50

Frank C. Walsh (University of Southampton, Southampton, United Kingdom)

Developments and Challenges in Redox Flow Batteries: The All Vanadium, Cerium-Zinc and Soluble Lead Acid Systems

12:50 to 13:10

Jose M. Amarilla (Instituto de Ciencia de Materiales de Madrid (C.S.I.C.), Madrid, Spain), Mohamed Aklalouch, Fernando Pico, Rosa M. Rojas, Jose M. Rojo, Ismael Saadoune

Electrochemical Properties at r.t. and at 55ºC of Cr-doped $LiNi_{0.5}Mn_{1.5}O_4$ Spinels as 5V-Positive Electrodes

Symposium 10: General Session

Location: Room 215 (Floor P1)

Chair: A. Cuesta, C. Deslouis

10:50 to 11:10 *Invited*

Gert Weyns (Vakgroep elektrotechniek, Vrije Universiteit Brussel, Brussels, Belgium), Daan De Wilde, Johan Deconinck, Herman Deconinck, Pedro Maciel, Nico Smets

Study of the Discretisation of the Ionic Mass Transport Equations with the "Inverse Scharfetter-Gummel" Method

11:10 to 12:10

Coffee Break / Poster Session

12:10 to 12:30

Steven Van Damme (ETEC Department, Vrije Universiteit Brussel, Brussels, Belgium), Johan Deconinck

A comparative study of mass transport models for computational electrochemistry

12:30 to 12:50

Gyozo G. Lang (Institute of Chemistry, Eotvos Lorand University Budapest, Budapest, Hungary)

Investigation of the Electrochemical Reduction of Perchlorate Ions on Rh by Impedance Spectroscopy

Poster presentation program

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells

s01-P-001

Masahiro Akiya (**Musashi Institute of Technology, Tokyo, Japan)**
Mixed taste discrimination for LB film taste sensor

s01-P-002

Wendel Alves (Universidade Federal do ABC, Santo André, Brazil), André Polo, Camila Sousa
Enzyme Immobilization on Nanocrystalline Titanium Dioxide Films.

s01-P-003

Danielle Aubry (Université catholique de Louvain, Division of Materials and Process Engineering, Louvain-la-Neuve, Belgium), Antonio Codina, Patrice Soumillion
On the origin of the inter**action of filamentous phages with anodic oxide surfaces**

s01-P-004

Lucía Avalle (Facultad de Matemática Astronomía y Física, Córdoba, Argentina), Osvaldo Cámara, Fabiana Oliva
Adsorption of HSA on Ti/TiO_2 electrochemical oxide electrodes. Quantitative interaction effects of protein-oxide surface functional groups

s01-P-005

Yusuke Ayato (Measurment Solution Research Center, National Institute of Advanced Industrial Science and Technology (AIST), Tosu, Japan)
Direct electrochemical response of hemoglobin adsorbed on bare ITO electrode surfaces

s01-P-006

Camelia Bala (University of Bucharest, Dept. of Analytical Chemistry, Labor Q, Bucharest-3, Romania), Adina Arvinte, Ana-Maria Gurban, Lucian Rotariu
Electrochemical System based on Nanocomposite Material used for Detection of some Biological Important Analytes

s01-P-007

Rui Barbosa (Faculty of Pharmacy, University of Coimbra, Coimbra, Portugal), Greg Gerhardt, Peter Huettl, João Laranjinha, Cátia Lourenço, Francois Pomerleau, Ricardo Santos
***In vivo* Real Time Measurement of Nitric Oxide in Anesthetized Rat Brain**

s01-P-008

Assis Vicente Benedetti (Fisico-Quimica, Instituto de Quimica-UNESP, Araraquara, Brazil), Antonio Aparecido Pupim Ferreira, Cecilio Sadao Fugivara, Patricia Hatsue Suegama
Electrochemical and spectroscopic characterization of the SAMs on screen-printed electrodes

s01-P-009

Valerio Beni (Department of Chemical EngineeringUniversitat Rovira i Virgili, Tarragona, Spain), Hany Nasef
Cystic Fibrosis: development of an Electrochemical Impedance Spectroscopy based screening tool.

s01-P-010

Morsaline Billah (Institute of Membrane and Systems Biology, Faculty of Biological Sciences, Leeds, United Kingdom), H. C. W. Hays, P. A. Millner
Development of Impedimetric Immunosensors for Biomarkers of Cardiac Pathology

s01-P-011

Soledad Bollo (Laboratorio de Bioelectroquímica, Facultad de Ciencias Químicas y Farmacéuticas, Universidad de Chile, Santiago, Chile), Elizabeth de la Fuente, Marcelo Kogan
Electrochemical assay to search for inhibitors of Aβ(1-42) fibril formation based on carbon nanotubes modified glassy carbon electrodes

s01-P-012

Alessandra Bonanni (Department of Chemistry, Universitat Autonoma de Barcelona, Barcelona, Spain), Manel Del Valle, Maria Jose Esplandiu

Impedimetric Detection of DNA Hybridization using Carbon Nanotubes as Sensing Platform

s01-P-013

Sabine Borgmann (ISAS, Institute for Analytical Sciences & Technische Universität Dortmund, Dortmund, Germany)

Evaluating Different Methods for Electrodepositing Polyeugenol as Interference Elimination Membrane for Nitric Oxide Microsensors

s01-P-014

Hans Buschop (Ghent University, Department of Analytical Chemistry, Ghent, Belgium), Annemie Adriaens, Lina De Smet, Karolien De Wael

Immobilization of cytochrome c on cysteamine modified gold electrodes with EDC as coupling agent

s01-P-015

José Miguel Campiña (Departamento de Química, Faculdade de Ciências, Universidade do Porto, Porto, Portugal), Ana Maria Martins, Fernando Silva

A New Strategy for the Immobilization of β-CDs on Au Surfaces

s01-P-016

Donatella Carelli (DiSACD - Dipartimento di Scienze Agro-ambientali, Chimica e Difesa Vegetale, and BIOAGROMED, Università degli Studi di Foggia, Foggia, Italy), Diego Centonze, Manuela Petroianni, Maurizio Quinto

Development of an aperometric biosensor based on L-amino acid oxidase used as an electrochemical detector in anion-exchange chromatography for foods and supplement dietary monitoring

s01-P-017

Rebecca L. Caygill (Institute of Systems and Membrane Biology, Faculty of Biological Sciences, Leeds, United Kingdom), G. Eric Blair, Paul A. Millner

Developing an Electrochemical Assay to Detect Virus Particles

s01-P-018

Mi-Jin Choi (Department of Environmental Science and Engineering, Gwangju Institute of Science and Technology (GIST), Gwangju, Korea), Folusho Francis Ajayi, Kyu-Jung Chae, Kyoung-Yeol Kim, In S. Kim, Jaeyoung Lee

Effects of Catholyte pH and Membrane Type on the Performances of Microbial Fuel Cells

s01-P-019

Oana Corduneanu (Departamento de Quimica, Universidade de Coimbra, Coimbra, Portugal), Ana Maria Chiorcea Paquim, Merrill Garnett, Ana Maria Oliveira Brett

Lipoic Acid – Palladium Complexes Adsorbed on Carbon Electrode Surfaces: Voltammetric and AFM Study

s01-P-020

Cicero Costa (Instituto de Química e Biotecnologia, Maceio, Brazil), Erivaldo Costa, Cenira de Carvalho, Marilia Goulat, Estelita Lima, Paulo Miranda, Maria Teresa Molina, Waldomiro Pinho Junior, Jose Rui Reys, Karlos Ribeiro, Antônio Euzébio Santana

Electrochemical Behaviour, Larvicidal and Molluscicidal Activities of Natural and Synthetic Naphtoquinones

s01-P-021

Carmen CREANGA (CNRS, University of Nantes, Nantes, France), Nabil El Murr

Redox-Flexible Biosensors: Tools for Accurate Detection of Very Low Substrate Concentrations in Complex Matrices.

s01-P-022

Vaz-Dominguez Cristina (Instituto de Catálisis, CSIC, Madrid, Spain)

Laccase electrode for direct electrocatalytic reduction of O_2 to H_2O with high operational stability and resistance to chloride inhibition

s01-P-023

Antonella Curulli (Consiglio Nazionale delle Ricerche (CNR) Istituto Materiali Nanostutturati (ISMN), Roma, Italy), Giovan Battista Appetecchi, Stefano Passerini, Daniela Zane

Amperometric biosensors based on poly(o-phenylendiamine) electrosynthesized in a room temperature ionic liquid.

s01-P-024

María Antonieta Daza Millone (INIFTA-UNLP, La Plata, Argentina), Guillermo A. Benitez, Tania Beatriz Creczynski-Pasa, André A. Pasa, Roberto Carlos Salvarezza, María Elena Vela

Electrochemical detection of biomolecules incorporated in a supported lipid bilayer

s01-P-025

Antonio De Lacey (Instituto de Catalisis/CSIC, Madrid, Spain), Asunción Alonso-Lomillo, Victor Fernandez, Olaf Rüdiger

Hydrogenase-coated Carbon Nanotubes for electroenzymatic oxidation of Hydrogen

s01-P-026

Ioana Demetrescu (University Politehnica Bucharest, Bucharest, Romania)

Electrochemical procedures in obtaining and characterization of TiO_2 nanotubes structure on Ti and Ti alloys

s01-P-027

Victor Constantin Diculescu (Departamento de Química, Faculdade de Ciência e Tecnologia, Universidade de Coimbra, Coimbra, Portugal), Teodor Adrian Enache, Paulo Oliveira, Ana Maria Oliveira Brett

Electrochemical Oxidation of Some Isoquinoline Alkaloids

s01-P-028

Adrian Teodor Enache (Departamentos de Quimica, Faculdade de Ciencias e Tecnologia, Universidade de Coimbra, Coimbra, Portugal), Oliveira-Brett Ana Maria, Victor C. Diculescu

Electrochemical oxidation of anti-arrhythmia drug disopyramide at a glassy carbon electrode

s01-P-029

Vanessa Escamilla-Gómez (Dto. Química Analítica, Facultad de Cc. Químicas, Universidad Complutense de Madrid, Madrid, Spain), Susana Campuzano, María Pedrero, José M. Pingarrón

Disposable Immunosensors Based on Self-Assembled Monolayer-Modified Screen Printed Gold Electrodes for the Determination of Staphylococcus Aureus in Milk Samples

s01-P-030

Callie Fairman (School of Chemistry, The University of New South Wales, Sydney, Australia), J. Justin Gooding, D. Brynn Hibbert

The Fabrication and Modification of Carbon Electrodes for Biosensing

s01-P-031

Gabriele Favero (Dipartimento di Studi di Chimica e Tecnologia delle Sostanze Biologicamente Attive, Roma, Italy)

Study of the electron transfer mechanism of Laccases by means of electrochemical techniques

s01-P-032

Elena E. Ferapontova (Danish National Research Foundation: Centre for DNA Nanotechnology (CDNA), Department of Chemistry and iNANO, The Faculty of Science, Aarhus University, Aarhus, Denmark), Kurt V. Gothelf, Mikkel F. Jacobsen

Effect of Hyridization on Electron Transfer Properties of Redox-Labeled DNAs

s01-P-033

Olivier Frey (Institute of Microtechnology, University of Neuchâtel, Neuchâtel, Switzerland), Nico de Rooij, Milena Koudelka-Hep, Peter van der Wal

Silicon Microprobe Arrays for the Amperometric Detection of Choline in Brain Tissue

s01-P-034

Yusuke Fuchiwaki (Department of bioinformatics, Faculty of Engineering, Soka University, Hachioji, Japan), Izumi Kubo, Naoki Sasaki, Junji Takeshita

Electrochemical sensing system for determination of simazine in tap water utilizing molecularly imprinted artificial receptor

s01-P-035

María Gamella (Department of Analitycal Chemistry, Faculty of Chemistry, Complutense University of Madrid, Madrid, Spain), Susana Campuzano, José M Pingarrón, Angel Julio Reviejo

Integrated Multienzyme Electrochemical Biosensors for the Determination of Glycerol in Wines.

s01-P-036

M. Pilar García Armada (E.T.S.I.I. Universidad politécnica de Madrid, Madrid, Spain), Beatriz Alonso, Carmen M. Casado, Holger Frey, Francisco J. López-Villanueva, José Losada

Electrochemical and bioelectrocatalytical properties of novel block-copolymers containing interacting ferrocenyl units

s01-P-037

Magdalena Gebala (Analytische Chemie - Elektroanalytik & Sensorik; Ruhr-Universität Bochum, Bochum, Germany), Sebastian Neugebauer, Wolfgang Schuhmann, Leonard Stoica

Amplification impedimetric signal of hybridization events via intercalation of the suitable compounds into dsDNA

s01-P-038

Silvia Generelli (Institute of Microtechnology, University of Neuchâtel, Neuchâtel, Switzerland), Nicolaas F. de Rooij, Olivier T Guenat, Mario Jolicoeur, Milena Koudelka - Hep, Peter D. van der Wal

A Platform for *In vitro* Cell Necrosis Quantification by Induced K^+ Efflux

s01-P-039

Mariana Emilia Ghica (Universidade de Coimbra, Coimbra, Portugal), Christopher M. A. Brett

An Enzymatic Inhibition Approach for Determination of Heavy Metals at Carbon Film-Poly(Neutral Red)-Glucose Oxidase Biosensor

s01-P-040

Maria Gomez-Mingot (Dept. of Physical Chemistry and Institute of Electrochemistry, University of Alicante, San Vicente, Alicante, Spain), John Heptinstall, Jesus Iniesta, Vicente Montiel, David J. Walton

Direct electrochemical oxidation of methionine and its sulfoxide derivative on boron doped diamond (BDD) electrode: Application to selectively protein modification at methionine residues.

s01-P-041

Elisa González-Romero (Química Analítica y Alimentaria, Universidad de Vigo, Vigo, Spain)

An Overview on the Electrochemistry of Arendiazonium Ions and its (Bio)Analytical Applications

s01-P-042

Luiz Goulart Filho (Institute of Genetics and Biochemistry/Federal University of Uberlândia, Uberlândia, Brazil), Ana Brito-Madurro, Diego Franco, João Madurro, Adriana Neves, Letícia Souza

Electrochemical Detection of Prostate Cancer Using Ethidium Bromide as Intercalator

s01-P-043

Rui Gusmão (Instituto de Ciência Aplicada e Tecnologia, Faculdade de Ciências da Universidade de Lisboa, Lisboa, Portugal), António Cascalheira

Electrodeposition of Polyluminol Films Designed for Electrochemiluminescence Studies

s01-P-044

Rolf Hempelmann (Physical Chemistry, Saarland University, Saarbruecken, Germany), Janine Gajdzik, Friedrich Giffhorn, Gerd W. Kohring, Dieter M. Kolb, Mila Manolova, Harald Natter

A new method for enzyme immobilization on nanostructured electrode surfaces

s01-P-045

Hays Henry (Institute of Membranes and Systems Biology, Leeds, United Kingdom), Tim Gibson, Paul Millner

Construction of organophosphate sensors based on disposable screen printed carbon electrodes.

s01-P-046

Juan Pablo Hervás (Sección Departamenta L de Química Analitica, Facultad de Farmacia U.C.M., Madrid, Spain), Enrique López-Cabarcos, Beatriz López-Ruiz

Encapsulation of Glucose Oxidase within Biocompatible DMAEM Microgels for developing an Amperometric Glucose Biosensor

s01-P-047

Sun-Joo Hwang (Chemistry/Sogang Univ., Seoul, Korea)

Electrochemical Detection of Ferrocenemethanol by Chemical Amplification

s01-P-048

Patricia Janeiro (Departamento de Química, Faculdade de Ciências E Tecnologia, Universidade de Coimbra, Coimbra, Portugal), Ivana Novak, Ana Maria Oliveira Brett, Marijan Seruga

Determination of flavonoids by RP-HPLC-ED in different varieties of Portuguese grapes

s01-P-049

Frantisek Jelen (Institute of Biophysics, Academy of Sciences of the Czech Republic, v.v.i., Brno, Czech Republic)

Analysis of Aminopurines at Carbon Paste Electrodes in the Presence of Copper Ions

s01-P-050

Lars Jeuken (Institute of Membrane and Systems Biology, University of Leeds, Leeds, United Kingdom), Richard Bushby, Stephen Evans, Sophie Weiss

Impedance spectroscopy of bacterial membranes: Quinol/Quinone diffusion in a finite diffusion layer

s01-P-051

Yan-Xia Jiang (Department of Chemistry, School of Chemistry and Chemical Engineering, Xiamen University, Fujian, China), Sheng-Pei Chen, Yan-Xia Jiang, Jin Qiu, Shi-Gang Sun, Dong-Mei Zeng, Chun-Hua Zhen

Adsorption and Oxidation of L-Lysine on Au Film Electrodes in Alkaline solutions

s01-P-052

Yan-Xia Jiang (Department of Chemistry, School of Chemistry and Chemical Engineering, Xiamen University, Xiamen, China), Yan-Xia Jiang, Jin Qiu, Shi-Gang Sun, Li Tian, You-Chen Zhou

Preparation and electrochemical-SPR study of glucose oxidase (GOx) biosensor

s01-P-053

Katarzyna Karnicka (Dept. of Chemistry, University of Warsaw, Warsaw, Poland), Pawel J. Kulesza, Krzysztof Miecznikowski

Multi-walled carbon nanotube based mediating system for bioelectrocatalytic oxygen reduction

s01-P-054

Arkady Karyakin (Chemistry Faculty of M.V. Lomonosov, Moscow State University, Moscow, Russian Federation), Fedor Fedotenkov, Elena Karyakina, Oleg Voronin

Hydrogen electrodes based on limiting characteristics of enzymes in bioelectrocatalysis

s01-P-055

Barbara Kowalewska (Dept. of Chemistry, University of Warsaw, Warsaw, Poland), Pawel J. Kulesza

Application of Tetrathiafulvalene Modified Carbon Nanotubes as Mediating System for Glucose Oxidation

s01-P-056

Olivier Laczka (Microsistemas, Centro Nacional de Microelectrónica (IMB-CNM_CSIC), Bellaterra, Spain), F. Javier del Campo, Rosa María Ferraz, Neus Ferrer-Miralles, Francesc Xavier Muñoz, Antonio Villaverde

Detection of anti-HIV antibodies using microdisc electrode arrays and allosteric enzymes.

s01-P-057

Won-Yong Lee (Department of Chemistry, Yonsei University, Seoul, Korea), Lee Choi, Byung-Kun Kim

Electrochemical Biosensors of Carbohydrate-Binding Proteins Based on Carbohydrate-Modified Gold Electrode

s01-P-058

Chong-Yong Lee (School of Chemistry, Monash University, Clayton, Melbourne, Australia), Alan M. Bond, Darrell M. Elton, Barry D. Fleming, Si-Xuan Guo, Jie Zhang

The Application of Large Amplitude Fourier Transform ac Voltammetry in the Protein Films Studies

s01-P-059

Fernández Lenys (Universidad Simón Bolívar, Caracas, Venezuela), María Hernández, Carlos Borrás, Jorge Mostany

Characterization of surfactant/hydrotalcite-like clay /glassy carbon modified electrodes: oxidation of phenol

s01-P-060

Fred Lisdat (University of Applied Sciences Wildau, Wildau, Germany), Thomas Balkenhohl

Oxygen-reducing electrodes based on layer-by-layer assemblies of cytochrome c and laccasse

s01-P-061

Fred Lisdat (Wildau University of Applied Sciences, Biosystems Technology, Wildau, Germany), Jacqueline Friedmann, Dirk Kurth, Helmuth Mohwald, Dietmar Pum, Frieder Scheller, Uwe Sleytr

Surface Study of Electroactive Polyelectrolyte Multilayers with Cytochrome c

s01-P-062

William Lizcano-Valbuena (Departamento de Química / Universidad del Valle, Santiago de Cali, Colombia), Rodrigo Abonia, Julio Arce, Paola Cuervo, Cesar Mujica Martinez, John Ortiz-Restrepo, Magdaly Tascon-Ramos

Contributions to the electrooxidation mechanism of some chalcones and its derivatives on smooth platinum

s01-P-063

Pablo Lozano-Sanchez (Bioelectrochemistry and Bioengineering Group. Universitat Rovira i Virgili, Tarragona, Spain), Ioanis Katakis

Displacement Electrochemical Immunosensors: The case of 2,4,6, trichloroanisole

s01-P-064

Ana Madurro (Institute of Chemistry, Federal University of Uberlândia, Uberlândia, Brazil), André Afonso, Luiz Goulart Filho, João Madurro, Márcia Moura, Letícia Souza

Development of Electrochemical Genosensor Based on Matrix of Poly (4-aminophenol) for Mycobacterium leprae

s01-P-065

João Madurro (Institute of Chemistry/Federal University of Uberlândia, Uberlândia, Brazil), Luiz Goulart Filho, Ana Madurro, Tatiana Silva, Letícia Souza

Use of Modified Electrodes to Detection of Dengue Virus

s01-P-066

Moustafa Malki Kasri (Instituto de Catálisis y Petroleoquímica, Madrid, Spain)

A microbial electrode for fuel cells that beats oxygen

s01-P-067

Gregory March (ITODYS, CNRS UMR 7086, Paris Denis Diderot, Paris, France), Vincent Noel, Minh-Chau Pham, Benoit Piro, Steeve Reisberg

Electrochemical Sensor Based on Electroactive SAM : Direct and Selective Detection

s01-P-068

Giovanna Marrazza (Department of Chemistry, University of Florence, Sesto Fiorentino (Firenze), Italy), Francesca Berti, Serena Laschi, Marco Mascini, Ilaria Palchetti

Development of rapid affinity tests using an innovative micro-analytical flow system based on electrochemical detection

s01-P-069

Mari Luz Mena (Dept. de Química Analítica, Madrid, Spain), Jose L. Avila, Manuel Cano, Manuel Mayen, Jose Pingarron, Rafael Rodriguez-Amaro

A PVC/TTF-TCNQ composite electrode as amperometric biosensor for glucose determination.

s01-P-070

Sabino Menolasina (Universidad de Los Andes, Facultad de Farmacia y Bioanálisis, Departamento de Análisis y Control, Mérida, Venezuela), Beatriz López, Sabino Menolasina

Determination of Dopamine with an amperometric biosensor based on tyrosinase- laponita modified glassy carbon electrode

s01-P-071

Grzegorz Milczarek (Institute of Chemistry and Technical Electrochemistry, Poznan, Poland)

Electrocatalysis of NADH Oxidation Using Lignin-Modified Electrodes

s01-P-072

Ruzniza Mohd Zawawi (University of Durham, Durham, United Kingdom)

Chiral Glucose Biosensor Based on Ferrocene-Modified Carbon Nanotubes with Collagen and Collagen-Silica Hybrids Complexes

s01-P-073

Maria Aline Moura (Instituto de Química e Biotecnologia, Universidade Federal de Alagoas, Maceio, Brazil), Marilia Oliveira Fonseca Goulart, Eufrânio da Silva Jr., Fabiane de Abreu, Manoel Odorico de Moraes, Leticia Lotufo, Raquel Montenegro, Claudia Pessoa, Antonio Pinto, Antônio Euzébio Santana, Marne Vasconcellos

Comparative Study between Pharmacological and Electrochemical (DNA-biosensor) Methods for Understanding the Mechanism of Cytotoxic Action of a Nitro-ortho-quinone

s01-P-074

Mir Fazlollah Mousavi (Chemistry/TMU, Tehran, Iran (Islamic Republic of)), S. Zahra Bathaie

Electrochemical studies of DNA immobilization on the self-assembled monolayers and its interaction with spermidine

s01-P-075

F. Xavier Muñoz (BioMEMs Group, Dept. Micro-Nanosystems, Bellaterra, Spain), Eva Baldrich, Fco Javier del Campo, Cristina Garcia, Roser Mas, Xavier Muñoz-Berbel

On-Chip Fabrication of Microbial Biosensors for Food Applications

s01-P-076

Laura Muresan (Department of Physical Chemistry/ Babes-Bolyai University, Cluj-Napoca, Romania), Elisabeth Csoregi, Mihaela Nistor, Ionel Catalin Popescu, Stefania Taormina

Polyamine Oxidase-Based Amperometric Biosensors for Biogenic Amines Determination in Biomedical Applications

s01-P-077

Liana Maria Muresan ("Babes-Bolyai" University, Department of Physical Chemistry, Cluj-Napoca, Romania), Sorin Dorneanu, Delia Gligor, Ionel Catalin Popescu, Codruta Varodi

Amperometric determination of ascorbic acid in fruit juices with carbon paste electrodes incorporating synthetic zeolites and Methylene Blue

s01-P-078

Monika Naumowicz (Institute of Chemistry, University of Bialystok, Bialystok, Poland), Zbigniew Artur Figaszewski

Impedance Spectroscopy Measurements of the Lipid Membranes formed from Phosphatidylserine-Ceramide Mixture

s01-P-079

Inmaculada Navarro (Departamento de Químca Física, Universidad de Sevilla, Seville, Spain), Consuelo Cerrillos, Francisco Prieto

Mixed Langmuir- Blodgett Films of Gramicidin A and Phospholipids

s01-P-080

Ewa Nazaruk (Chemistry Department, Warsaw University, Warsaw, Poland), Renata Bilewicz, Grazyna Ginalska, Jerzy Rogalski

Electrodes modified with carbon nanotubes and lipidic cubic phase for biofuel cell applications

s01-P-081

Frances Neville (Institute of Membrane and Systems Biology, University of Leeds, Leeds, United Kingdom), Michael Broderick, Tim Gibson, Paul Millner

Novel nanosilicate-based biosensor surfaces

s01-P-082

Gilbert Nöll (Analytical Chemistry, Lund, Sweden), Lo Gorton, Dietmar Haltrich, Wolfgang Harreither, Roland Ludwig, Federico Tasca

Direct and Mediated Electron Transfer at Cellobiose Dehydrogenase Modified Anodes for Biofuel Cells

s01-P-083

Reza Ojani (Mazandaran University, Babolsar, Iran (Islamic Republic of)), Banafsheh Norouzi, Jahan-Bakhsh Raoof

A New Electrocatalytic Sensor for Hydrogen Peroxide Prepared by Cobalt Oxide Forming from Cobalt Hexacyanoferrate

s01-P-084

Severino Carlos Oliveira (Departamento de Química, Faculdade de Ciências e Tecnologia, Universidade de Coimbra, Coimbra, Portugal), Ana Maria Oliveira Brett, Marilene Vivan

Electrochemical Oxidation of N-phthalyglutamic Acid Imide at a Glassy Carbon Electrode

s01-P-085

Marina Osina (Moscow Power Engineering Institute, Moscow, Russian Federation)

Electrocatalytic properties and structure of composite bipolymer peroxidase-Nafion material

s01-P-086

Veronika Ostatna (Institute of Biophysics ASCR, v.v.i., Brno, Czech Republic), Emil Palecek

Aggregation of proteins in Parkinson's disease. Changes in alpha-synuclein interfacial properties *in vitro*

s01-P-087

Merce Pacios (Departamento de Quimica, Universidad Autonoma de Barcelona, Bellaterra, Spain), Jordi Bartroli, Lukas Cyganek, Manel del Valle

Amperometric biosensors employing functionalized carbon nanotubes

s01-P-088

Ilaria Palchetti (Dipartimento di Chimica, Università di Firenze, Sesto Fiorentino, Italy), Serena Laschi, Giovanna Marrazza, Marco Mascini

Electrochemical Imaging of localized sandwich DNA hybridization using Scanning Electrochemical Microscopy

s01-P-089

Diego Pallarola (INQUIMAE, FCEyN, Universidad de Buenos Aires, Ciudad Autónoma de Buenos Aires, Argentina), Graciela González, Graciela Priano

An Electrochemical Competitive Assay for the Detection of Endotoxins Using a Single Addressable Electrode Array System

s01-P-090

Marco Panizza (Department of Chemical and Process Engineering, University of Genoa, Genoa, Italy), Giacomo Cerisola, Marina Delucchi, Rico Ricotti, Ignasi Sires

Effect of different self-assembled monolayers for MP-11 funzionalized electrodes

s01-P-091

Felix Pariente (Quimica Analitica, Madrid, Spain), Concepcion Alonso, Tania Garcia, Lorenzo Maria Encarnacion, Monica Revenga-Parra

Electrochemical detection of DNA cleavage induced by Hydroxy-Salophen-copper complex

s01-P-092

Luciana Peixoto (Department of Biological Engeneering, Braga, Portugal), Antonio Brito, Pablo Kroff, Regina Nogueira, Pier Parpot

Geobacter sulfurreducens as mediator for redox reactions: cyclic voltammetric study

s01-P-093

Katarzyna Piekielska (Analytische Chemie, Elektroanalytik & Sensorik; Ruhr-Universität Bochum, Bochum, Germany), Sabine Müller, Wolfgang Schuhmann

Impedimetric detection of hairpin ribozyme activity

s01-P-094

A. Dora R. Pontinha (Departamento de Química, Faculdade de Ciências e Tecnologia, Universidade de Coimbra, Coimbra, Portugal), Ana Maria Brett, S. Carlos B. Oliveira

Electrochemical oxidation of metolazone at a glassy carbon electrode

s01-P-095

Ionel Catalin Popescu (Department of Physical Chemistry, University Babes Bolyai, Cluj Napoca, Romania), Liana Maria Muresan, Lidia Varvari

Determination of antioxidant capacity in wines and fruit juices using an amperometric biosensor

s01-P-096

Julija Razumiene (Department of Bioanalysis of Institute of Biochemistry, Vilnius, Lithuania), Irina Bachmatova, Valdas Laurinavicius, Liucija Marcinkeviciene, Ieva Tolusyte, Edita Voitechovic

Investigations of PQQ-ADH Inhibition by CO. Suggestion for Amperometric CO Detection Method

s01-P-097

Julija Razumiene (Department of Bioanalysis of Institute of Biochemistry, Vilnius, Lithuania), Vidute Gureviciene, Laimonas Karvelis

Application of Nicotinic Acid 6-Hydroxylase from Sinorhizobium Sp. L-1 for Amperometric Determination of Nicotinic acid and Nicotinamide

s01-P-098

Mark Rodgers (University of Leeds, Leeds, United Kingdom), John Findlay, Paul Millner

Developing affinity sensors for low molecular weight hydrophobic molecules using lipocalins and other binding proteins

s01-P-099

Amit Ron (Department of Physical Electronics Tel Aviv University, Tel Aviv, Israel), Dafna Benayahu, Nick Fishelson, Ragini Raj Singh, Yosi Shacham-Diamand, Irena Shur, Rina Socher

Dielectric Spectroscopy for Cell-based screening analysis

s01-P-100

Eva Samcova (Institute of Biochemistry, Cell and Molecular Biology, Charles University in Prague, Prague 10, Czech Republic), František Duška, Petr Tùma

Determination of Ammonia, Creatinine and Inorganic Cations in Urine using CE

s01-P-101

Marta Sánchez-Paniagua (Sección Departamental de Química Analítica, Facultad de Farmacia U.C.M., Madrid, Spain), Enrique López-Cabarcos, Beatriz López-Ruiz, Faleh Tamimi

Organic Phase Amperometric Biosensors based on Brushite

s01-P-102

Robert Valentin Sandulescu (Analytical Chemistry Dept., "Iuliu Hatieganu" University of Medicine and Pharmacy, Cluj-Napoca, Romania), Ede Bodoki, Cecilia Cristea, Ioan Lazar, Iuliu Marian

The design and electroanalytical properties of new screen printed electrodes

s01-P-103

Woonsup Shin (Department of Chemistry, Interdisciplinary Program of Integrated Biotechnology and Inorganic and Biological Materials Center of BK21, Sogang University, Seoul, Korea), Harishchandra D. Jirimali, Jung Ok Lee, Rajaram K. Nagarale, Durai Saravanakumar, Jieun Song

Synthesis of Enzyme Incorporated Viologen Polymer Composite for the Platform of Electrochemical Reductions Catalyzed by Enzymes

s01-P-104

Halyna Shkil (Analytische Chemie - Elektroanalytik & Sensorik, Ruhr-Universität Bochum, Bochum, Germany), Konstyantyn Dmytruk, Mykhailo Gonchar, Dmitrii Guschin, Wolfgang Schuhmann, Andriy Sibirny, Oleh Smutok, Leonard Stoica

Mediatorless biosensors for L-lactate detection based on genetically modified yeast cells of Hansenula polymorpha

s01-P-105

Anna-Maria Spehar-Délèze (Biomedical Diagnostic Institute, Dublin City University, Dublin, Ireland), Tia E. Keyes, Yann Pellegrin

Electrochemiluminescent dual metal centre ruthenium polymer

s01-P-106

Gabriella Stefania Szabo (Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University, Cluj-Napoca, Romania), Adrian Nicoara, Lidia Varvari

Kinetic investigation of reaction between DPPH• and Trolox employed on amperometric determination of antioxidant activity

s01-P-107

Raphaël Trouillon (Department of Bioengineering, Imperial College, London, United Kingdom), Christine Cheung, Danny O'Hare, Bhavik A. Patel

Comparative Study of Poly(styrene-sulfonate)/poly(L-lysine) and fibronectin as Biofouling-Preventing Layers in Dissolved Oxygen Electrochemical Measurements

s01-P-108

Graziella Liana Turdean (Physical Chemistry Department, "Babes-Bolyai" University, Cluj-Napoca, Romania), Ionel Catalin Popescu

Nanostructured Assemblies for Glucose and Phenol Detection

s01-P-109

Vladimír Vetterl (Center for Dental and Craniofacial Research, Faculty of Medicine, Masaryk University, Brno, Czech Republic), Sonia Bartáková, Lukáš Fojt, Stanislav Hason, Ema Jancarová, Patrik Prachár, Raimo Silvennoinen, Ludik Strašák, Jiri Vanik, Jana Šoukalová

Electrochemical and optical approaches in dentistry

s01-P-110

Vetterl Vladimír (Institute of Biohysics, v.v.i, Academy of Sciences of the Czech Republic, Brno, Czech Republic), Lukáš Fojt, Miroslav Fojta, Stanislav Hason

Two-dimensional condensation of nucleic acid components and oligonucleotides

s01-P-111

Xiaoju Wang (Laboratory of Inorganic Chemistry, Process Chemistry Centre, Åbo Akademi University, Turku, Finland)

Exploration of utilisation of reticulated vitreous carbon foam in the construction of a biofuel cell cathode

s01-P-112

Franziska Wegerich (University of Potsdam, Analytical Biochemistry, Golm, Germany)

Engineered cytochrome c mutants for application on superoxide sensing electrodes

s01-P-113

Benjamin Wilson (Laboratory of Physical Chemistry and Electrochemistry, Helsinki University of Technology, Espoo, Finland), Kyosti Kontturi, Markus B. Linder

Characterisation and Effect of Mediators on a Hydrophobin–Laccase Hybrid Adhered to a Graphite Electrode Surface

s01-P-114

Franco Mazzei (Dipartimento di Studi di Chimica e Tecnologia delle Sostanze Biologicamente Attive, Roma, Italy)

Scleroglucan/borax gel based immobilization: a new tool for protein electron transfer characterization

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

s02-P-001

Rafael Andreu (Department of Physical Chemistry, University of Sevilla, Seville, Spain), Juan Jose Calvente, Angel Cuesta, Adrian Granero, Willem H. Mulder, Pablo Ramirez

Potential of zero charge of Au(111) modified with [omega]-mercaptoalkanoic acid monolayers.

s02-P-002

Genesis Ngwa Ankah (Max-Planck-Institut für Eisenforschung, Duesseldorf, Germany), Frank U. Renner, Michael Rohwerder

Fundamental Investigations of the Corrosion of Binary Alloys

s02-P-003

Lucía Avalle (Facultad de Matematica, Astronomia y Fisica, Universidad Nacional de Cordoba, Cordoba, Argentina), Jones Harold, Elizabeth Santos, M. Lorena Valle

Riboflavin and Flavin-Mononucleotide Adsorption on Ag(111) and Au(111) Single Crystal Electrodes

s02-P-004

Lucía Avalle (Facultad de Matemática, Astronomía y Física, Córdoba, Argentina), Hutaf M. Baker, M. Abdel-Halim Hamzeh, Harold Jones, Elizabeth Santos

Comparative Studies of the Adsorption of Cysteamine, Mercaptopropionic Acid and L-Cysteine on Ag(111)

s02-P-005

Lucía Avalle (Facultad de Matematica, Astronomia y Fisica, Universidad Nacional de Córdoba, Córdoba, Argentina), Harold Jones, Elizabeth Santos, M. Lorena Valle

Interaction of Riboflavin and Flavin-Mononucleotide with Derivatized Surfaces of Ag(111)

s02-P-006

Helmut Baltruschat (Institute for Physical and Theoretical Chemistry, University of Bonn, Bonn, Germany), F. Hausen, M. Nielinger, N. Podghainiy

Influence of Adsorbates and Potential on Friction Forces Studied by AFM

s02-P-007

Ipek Becerik (Chemistry Department, Istanbul Technical University, Istanbul, Turkey)

Artificial Neural Network Application on an Electrochemical Process

s02-P-008

Dezso Boda (Department of Physical Chemistry, University of Pannonia, Veszprem, Hungary), Dirk Gillespie, Attila Malasics

Iterative grand canonical Monte Carlo algorithms to compute chemical potentials for prescribed densities

s02-P-009

Nicky Bogolowski (Institut für Physikalische und Theoretische Chemie, Bonn, Germany), Gary Attard, Helmut Baltruschat, Siegfried Ernst, Sharon Huxter, Tina Nagel

The surface activity of selenium modified Ru-electrodes for the ORR and the examination of Ru quasi single crystal electrodes with Cu-UPD

s02-P-010

José Miguel Campiña (Departamento de Química, Faculdade de Ciências, Universidade do Porto, Porto, Portugal), Ana Maria Martins, Fernando Silva

Effective Desorption of Long Chain n-Alkanethiol SAMs on Au by a New Electrochemical Procedure

s02-P-011

Pilar Carro (Departamento de Química Física, Universidad de La Laguna, La Laguna, Spain), Francesc Illas, Roberto C Salvarezza, Daniel Torres

Are the Ag(111) and Au(111) Surfaces Reconstructed upon Thiol Adsorption? A Density Functional Study

s02-P-012

José Manuel Delgado (Departamento de Química Física e Instituto Universitario de Electroquímica, Universidad de Alicante, Alicante, Spain), Raquel Blanco, José Manuel Orts, Juan Manuel Pérez, Antonio Rodes

An ATR-SEIRAS and SERS Study of the Adsorption of Anions from Glycolic and Glyoxylic Acids on Gold Thin-Film Electrodes

s02-P-013

Matteo Duca (Leiden Institute of Chemistry, Leiden University, Leiden, Netherlands), Marc Koper

Electrocatalytic reduction of nitrite on various metals. A preliminary mechanistic study.

s02-P-014

Yara El Harfouch (Laboratoire de Spectrometrie Ionique et Moleculaire, LASIM UMR CNRS 5579, Univeriste Claude Bernard Lyon1, Villeurbanne, France), Guillaume Bachelier, Emmanuel Benichou, Pierre-Francois Brevet, Leonard E. A. Berlouis, Christian Jonin, Lin Pu, Isabelle Russier-Antoine

A Polarization study using Second Harmonic Generation response of silver nanoparticles at the liquid/ liquid interface: From particles to continuous film

s02-P-015

María Escudero (Instituto de Química Física "Rocasolano", CSIC, Madrid, Spain), Angel Cuesta

Electrodeposition of copper and palladium on cyanide-modified Pt(111) electrodes

s02-P-016

Jonathan Florez (Dpto. Química Física, Universidad de La Laguna, La Laguna, Spain), Gonzalo García, Elena Pastor, Gabriel Planes, José Luis Rodríguez

Methanol and CO Electrooxidation at Bimetallic PtX Mesoporous Electrodes

s02-P-017

Stefan Frank (Leiden Institute of Chemistry, Leiden University, Leiden, Netherlands), Christoph Hartnig, Wolfgang Schmickler

Spiral Adsorbate Structures on Monoatomic Nanowire Electrodes

s02-P-018

Daniel Garcia-Raya (Química Física y Termodinámica Aplicada, Córdoba, Spain), Manuel Blázquez, Rafael Madueño, Teresa Pineda, José Manuel Sevilla

Self-assembled monolayers of octanedithiol (ODT) on Au(111) using a lyotropic crystalline medium

s02-P-019

Emmanuel Garnier (Equipe d'Electrocatalyse, Laboratoire de Catalyse en Chimie OrganiqueUMR CNRS 6503 - Université de Poitiers, Poitiers CEDEX, France), Antonio Aldaz, Sylvain Brimaud, Christophe Coutanceau, Juan M. Feliu, Jean-Michel Léger, José Solla-Gullon

Surface controlled Pt nanocrystals

s02-P-020

Vitali Grozovski (Instituto de Electroquímica - Universidad de Alicante, Alicante, Spain), Víctor Climent, Juan M. Feliu, Enrique Herrero

Formic acid oxidation on stepped surfaces studied by pulsed voltammetry

s02-P-021

Guido Grundmeier (Technical and Macromolecular Chemistry, Department of Chemistry, University of Paderborn, Paderborn, Germany), Markus Valtiner

Nanoscopic Understanding of the Surface Chemistry and Stability of Polar ZnO(0001)-Zn Surfaces in Aqueous Solutions

s02-P-022

Ikutaro Hamada (The Institute of Scientific and Industrial Research (ISIR), Osaka University, Osaka, Japan), Yoshitada Morikawa

Density-Functional Theoretical Study of Hydrogen on Pt(111) in an Electrochemical Environment

s02-P-023

Sandrine Jakab (CEA Marcoule, Bagnols sur Ceze, France), Claude Gabrielli, Hubert Perrot, Sebastien Picart, Bernard Tribollet

Study of the precipitation of hydroxide/oxide of lanthanide and their nucleation/growth kinetic by using the quartz crystal microbalance

s02-P-024

Palle Jensen (Department of Chemistry, Lyngby, Denmark), Qijin Chi, Jens Ulstrup

Enhancement of Long-range Protein Interfacial Electron Transfer by the Incorporation of Metallic Nanoparticles into Surface Molecular Assemblies

s02-P-025

Vladislava Jovanovic (University of Belgrade, ICTM Institute of electrochemistry, Belgrade, Serbia)

The Role of Carbon Functional Groups in Methanol Oxidation at Supported Pt Catalysts

s02-P-026

khurram Saleem Joya (Catalysis, Surfaces and Materials (CASC), Leiden Institute of Chemistry (LIC), Gorlaeus Laboratory, Leiden University, Leiden, Netherlands), H.J.M. de Groot, M.T.M. Koper

Molecular Catalyst for Dioxygen Generation by Electrocatalytic Water Splitting

s02-P-027

Takashi Kakiuchi (Department of Energy and Hydrocarbon Chemistry, Kyoto University, Kyoto, Japan), Yuko Hirohata, Ryoichi Ishimatsu, Yuki Kitazumi, Naoya Nishi

Role of Ion-pairing in Determining the Electrochemical Properties of the Interface between a Hydrophobic Ionic Liquid and an Aqueous Electrolyte Solution

s02-P-028

Wolfgang Kautek (University of Vienna, Department of Physical Chemistry, Vienna, Austria), Wolfgang Kautek, Dietmar Pum, Michael Schrems, Uwe B. Sleytr, Guenter Trettenhahn, Christian Zafiu

***In-situ* Infrared Spectroscopy and Electrochemical Quartz Microbalance Investigations of Buffer and S-Layer Protein Adsorption Processes**

s02-P-029

Intissar Kherbach (Instituto de Electroquímica, Universidad de Alicante, Alicante, Spain), Victor Climent, Juan M. Feliu

The Influence of CO_2 Reduction on Hydrogen Adsorption and Evolution on Pt Single Crystal Electrodes

s02-P-030

Gabriela Kissling (School of Chemistry, University of Bristol, Bristol, United Kingdom), David J. Fermin

Self-Assembled Monolayers at n-CdS Single Crystal Electrodes

s02-P-031

Marc Koper (Leiden Institute of Chemistry, Leiden University, Leiden, Netherlands), Otto Berg, Isja Dominicus, Ludo Juurlink, Janneke van der Niet

Does water dissociate at stepped platinum surfaces? A combined UHV and electrochemical study

s02-P-032

Andrey Koverga (Leiden Institute of Chemistry, Leiden University, Leiden, Netherlands), Stefan Frank, Marc T. M. Koper

Water Adsorption and Dissociation on Stepped Platinum Surfaces: a DFT Study

s02-P-033

Stanley Lai (Leiden Institute of Chemistry, Leiden University, Leiden, Netherlands), Marc Koper

Electrocatalytic oxidation of ethanol and acetaldehyde on platinum single crystal surfaces

s02-P-034

Valentina Lazarescu (Institute of Physical Chemistry Ilie Murgulescu, Bucharest, Romania), Guenther Goetz, Elizabeth Santos, Rares Scurtu, Ana Maria Toader, Elena Volanschi

Potential-induced conformational changes in α-CN-terthiophene thiolate film on GaAs(110)

s02-P-035

Jay Leitch (Department of Chemistry, University of Guelph, Guelph, ON, Canada), John Dutcher, Robert Faragher, Julia Kunze, Jacek Lipkowski, Renate Naumann, Adrian Schwan, Knoll Wolfgang

PM-IRRAS studies of a novel tether molecule for constructing tethered bilayer lipid membranes (t-BLMs) on gold electrode surfaces

s02-P-036

Zelin Li (Department of Chemistry, Hunan Normal University, Changsha, China), Shu Chen, Youping Chu, Jufang Zheng

Elimination of Oxidation and Decomposition by Sn(II) in the SERS Study of Reactive Biomolecules

s02-P-037

German Lopez-Perez (Department of Physical Chemistry, Faculty of Chemistry, University of Sevilla, Seville, Spain), Rafael Andreu, Juan Jose Calvente, Domingo Gonzalez-Arjona

Estimation of the Activation Parameters on Electrode Reactions: Temperature Effect for the Electroreduction of the Ion Cr(III)

s02-P-038

Chun'an Ma (State Key Laboratory Breeding Base of Green Chemistry-Synthesis Technology, College of Chemical Engineering and Materials Science, Hangzhou, China), Litao Chen, Ting Liu

Density Functional Theory Study of CO Adsorption on WC(001)and Pt/WC(001)

s02-P-039

Roman Manzhos (Institute of problems of chemical physics, Russian Academy of Sciences, Chernogolovka, Moscow region, Russian Federation), Alexander Krivenko, Boris Podlovchenko

A Study of Oxygen Adsorption on Polycrystalline Platinum Electrode by Laser-Induced Thermal Jump of Potential

s02-P-040

Igor Medved (Department of Physics, Constantine the Philosopher University, Nitra, Slovakia), Dale A. Huckaby

A microscopic theory of voltammogram spikes due to phase transitions at electrode-electrolyte interfaces

s02-P-041

Fabrice Micoud (Laboratoire d'Electrochimie et de Physico-chimie des Matériaux et des Interfaces, Saint Martin d'Hères, France), Antoine Bonnefont, Marian Chatenet, Katharina Krischer, Frédéric Maillard

CO electrooxidation on Pt-W surfaces

s02-P-042

Maria Montes de Oca (Physical and Theoretical Chemistry, University of Bristol, Bristol, United Kingdom), David Fermín

Surface reactivity of bi-metallic Au-Pd nanostructures

s02-P-043

Komarova Natalya (Institute of problems of chemical physics, Russian Academy of Sciences, Chernogolovka, Russian Federation), Alexander Krivenko

Adsorption of Camphor and Sodium Kryptate at Carbon Nanostructured Electrodes

s02-P-044

Eslam Nouri (Centre of Pharmacy, University of Groningen, Groningen, Netherlands), Rainer Bischoff, Andries Bruins, Hjalmar Permentier

Immobilized hemin as a suitable electrocatalyst in the mimicry of Cytochrome P450

s02-P-045

Maja Obradovic (Institute of Chemistry, Technology and Metallurgy, University of Belgrade, Belgrade, Serbia), Gregory Jerkiewicz, Jean Lessard

Adsorption of Toluene, Ethylbenzene and Styrene on Pt(111) in Aqueous $HClO_4$ Electrolyte

s02-P-046

Narumi Ohta (Polymer Electrolyte Fuel Cell Cutting-Edge Research Center (FC-Cubic), National Institute of Advanced Industrial Science and Technology (AIST), Tokyo, Japan), Ichizo Yagi

Surface-Enhanced Raman Scattering (SERS) at Gold Electrode Surfaces Comprised of Plasmonic Crystal Structure

s02-P-047

Cristiane Oliveira (Universidade Federal de São Carlos, São Carlos, Brazil), M.C. Lopes, E.C. Pereira

Insights on Metal Electrodeposition inside the Porous Anodic Alumina from a Computational Approach

s02-P-048

José Manuel Orts (Departamento de Química Física e Instituto Universitario de Electroquímica, Universidad de Alicante, Alicante, Spain), Raquel Blanco

B3LYP/LANL2DZ,6-311++G(d,p) Study of Water Adsorption on Pt(111), Pt(100) and Pt(110) Surfaces. Effect of Applied Electric Field.

s02-P-049

José Manuel Orts (Departamento de Química Física e Instituto Universitario de Electroquímica, Universidad de Alicante, Alicante, Spain), Raquel Blanco, José Manuel Delgado, Juan Manuel Pérez, Antonio Rodes

Anion Adsorption from Fluoroacetic Acids on Gold Thin-Film Electrodes: a B3LYP and *in-situ* Vibrational Spectroscopy Study.

s02-P-050

Minoru Otani (Institute for Solid State Physics, The University of Tokyo, Kashiwa, Japan), Ikutaro Hamda, Tamio Ikeshoji, Yoshitada Morikawa, Yasuharu Okamoto, Osamu Sugino

First Principles Simulations on Structure of the Water/Pt Interface under Negative Potential

s02-P-051

Carlos Pereira (CIQ-UP Departamento de Química, Faculdade de Ciências da Universidade do Porto, Porto, Portugal), João Borges, Cátia Carreira, Elisa Pereira, Fernando Silva

Study of DNA and gold nanoparticles interaction at gold surfaces

s02-P-052

Kay Pötting (Institut für Theoretische Chemie, Ulm, Germany), Renat Nazmutdinov, Kay Pötting, Elisabeth Santos, Patricio Velez

Theoretical investigations of the electronic properties of L-Cysteine overlayers on Ag(111)

s02-P-053

Ksenija Popovic (ICTM-Institute of Electrochemistry, University of Belgrade, Belgrade, Serbia), Jelena Lovic, Amalija Tripkovic

Activity of Carbon Supported Pt_3Ru_2 Nanocatalystin CO Oxidation

s02-P-054

Franciso Prieto (Departamento de Química Física, Universidad de Sevilla, Sevilla, Spain), Antonio Aldaz, Juan M Feliu, César Prado, Antonio Rodes

In-situ Infrared Spectroscopy Study of Adenine Adsorption at Gold Electrodes

s02-P-055

Paola Quaino (Programa de Electroquimica Aplicada e Ingenieria Electroquimica (PRELINE), Facultad de Ingenieria Quimica, Universidad Nacional del Litoral, Santa Fe, Argentina), Harald Ibach, Kay Pötting, Wolfgang Schmickler

Kinetic Monte Carlo Simulations: Step Fluctuations on Silver Electrodes

s02-P-056

Bin Ren (Department of Chemistry, Xiamen University, Xiamen, China), Ping-Ping Fang, Qun-Ping Lai, Jian-Feng Li, Xiao-Bing Lian, Zhong-Qun Tian

Spectroelectrochemical Flow Cell with Temperature Control for Studying the Electrocatalytic Systems with Surface-enhanced Raman Spectroscopy

s02-P-057

Encarnación Reyes (Química Física y Termodinámica Aplicada, Cordoba, Spain), Manuel Blázquez, Daniel García-Raya, Rafael Madueño, Teresa Pineda, José Manuel Sevilla

Formation of a self-assembled monolayer of Benzenedimethanedithiol on Au(111)

s02-P-058

José Luis Rodríguez (Departamento de Química Física, Universidad de La Laguna, La Laguna, Spain), César Barbero, Mariano Bruno, Gonzalo García, Elena Pastor, Gabriel Planes

Probe Beam Deflection Studies of Catalyst Materials for Fuel Cells

s02-P-059

Tavo Romann (Institute of Chemistry, University of Tartu, Tartu, Estonia), Enn Lust, Mart Väärtnõu

***In Situ* Infrared Spectroscopic Studies of Water and Ethanol on Bismuth Single Crystal Surfaces**

s02-P-060

Victor Safonov (Faculty of Chemistry, Moscow State University, Moscow, Russian Federation), Maria Choba, Aleksandr Krivenko, Roman Manzhos

The effect of oxygen chemisorption on the EDL structure and adsorption of adamantanol-1 on a silver electrode (according to the data of potential shifts induced by laser heating and traditional electrochemical methods

s02-P-061

Ave Sarapuu (Institute of Chemistry, University of Tartu, Tartu, Estonia), Aarne Kasikov, Leonard Matisen, Kaido Tammeveski

Electrochemical reduction of oxygen on gold-supported thin Pt films in acid solutions

s02-P-062

A.K. Satpati (Bhabha Atomic Research Centre, Mumbai, India), T. Mukherjee, P. V. Ravindran, S. Sahoo, G. Venkteswaran

Electrochemical Behaviour of Quercetin in Various Media on HMDE, Glassy Carbon and Carbon Paste Electrode

s02-P-063

Elena Stenina (Department of Chemistry, Moscow State University, Moscow, Russian Federation), Liana Sviridova

Adsorption of cation complexes of La^{3+} and Th^{4+} with cryptand [2.2.2.] at the electrode/solution interface

s02-P-064

Germano Tremiliosi-Filho (Instituto de Química de Sao Carlos/Universidade de Sao Paulo, Sao Carlos, SP, Brazil), Manuel de Jesus Santiago Farias

Anomalous effects on the intensity of vibrational bands in the electrochemical interface Pt(111)–CO followed by in situ FTIR spectroscopy

s02-P-065

Amalija Tripkovic (ICTM-Institute of Electrochemistry, University of Belgrade, Belgrade, Serbia), Jelena Lovic, Ksenija Popovic

Formic Acid Oxidation on Pt_2Ru_3 Nanocatalyst Modified by Bi

s02-P-066

Dusan Tripkovic (ICTM/Department of Electrochemistry, Belgrade, Serbia), Nenad Markovic, Vojislav Stamenkovic, Dusan Strmcnik, Dennis van der Vliet

Active sites in the CO oxidation on Pt(hkl)

s02-P-067

Yoshiharu Uchimoto (Kyoto University, Graduate School of Human and Environmental Studies, Kyoto, Japan), Tomokazu Fukutsuka, Zempachi Ogumi, Hiroaki Yoshida

X-ray absorption spectroscopic Study for Oxygen Reduction Reaction and Degradation Mechanism of PT/C Catalyst

s02-P-068

Lidija Valek (Depertment of Electrochemistry, Faculty of Chemical Engineering and Technology, Zagreb, Croatia), Ana Belščak, Nikolina Bukovac, Sanja Martinez, Jasenka Piljac-Žegarac

Electrochemical detection of antioxidants in fruit teas

s02-P-069

Monika Valisko (Department of Physical Chemistry, University of Pannonia, Veszprem, Hungary), Dezso Boda, Douglas Henderson, Timea Nagy

The behavior of 2:1 and 3:1 electrolytes at polarizable interfaces

s02-P-070

Klaus Wandelt (University of Bonn, Institute of Physical and Theoretical Chemistry, Bonn, Germany), Peter Broekmann, Christian Schlaup

Ultrathin copper sulfide films on Au(100): An ECSTM study

s02-P-071

Klaus Wandelt (University of Bonn, Institue of Physical and Theoretical Chemistry, Bonn, Germany), Peter Broekmann, Pham Duc Thanh

Molecular order and stability of viologen layers under non-equilibrium conditions

s02-P-072

Hanchun Wang (Institute for Physical and Theoretical Chemistry, Universität Bonn, Bonn, Germany)

Determination of rate determining step and activation volume for CO oxidation

s02-P-073

Ichizo Yagi (FC-Cubic, AIST, Tokyo, Japan), Masaki Chiba, Kohei Uosaki

Nonlinear Chiroptical Spectroscopy at Naturally Chiral and Chiral Molecule-modified Metal Surfaces

s02-P-074

Fethi Bedioui (UMR CNRS 8151 / U INSERM 640, Pharmacologie Chimique et Génétique, Paris, France), José Zagal, Tebello Nyokong, Evelyn Villagra, Carlos Canales, Mamie Sancy, Maritza Paez, Juan Costamagna

Tuning the Redox Properties of Metal Macrocyclics for Maximum Electrocatalytic Activity: Oxidation of Glucose

Symposium 3: Electroanalytical Chemistry at the Nanoscale

s03-P-001

Lourdes Agüí (Department of Analytical ChemistryFaculty of Chemistry University Complutense of Madrid, Madrid, Spain), José M. Pingarrón, Paloma Yáñez-Sedeño

Electrochemical detection of nitromusk fragances

s03-P-002

Francisco Aguiar (Chemistry Dept., University of Durham, Durham, United Kingdom), Martin Bryce, Ritu Kataky

Characterization of charge transfer on Au surfaces modified with molecular wires using potentiodynamic impedance spectroscopy and electrochemistry

s03-P-003

Marta Barbadillo Perez de Ayala (Quimica Analitica, Madrid, Spain), Elena Casero, Maria Encarnacion Lorenzo, Felix Pariente, Dolores Petit-Dominguez, Luis Vazquez

Design of a new organic-inorganic hybrid composite material based on gold nanoparticles for electrochemical sensing

s03-P-004

Keith Baronian (School of Applied Sciences,Christchurch Polytechnic Institute of Technology, Christchurch, New Zealand), Alison Downard, Benjamin Flavel, David Garrett, Joseph Shapter

Chemically assembled vertically aligned carbon nanotubes on a planar carbon substrate

s03-P-005

Madalina Maria Barsan (Departamento de Química, Universidade de Coimbra, Coimbra, Portugal), Christopher M. A. Brett, Monica Florescu

Development and Characterization of a New Conducting Carbon Composite Electrode

s03-P-006

Fethi Bedioui (UMR CNRS 8151, U INSERM 640, Pharmacologie Chimique et Génétique, Paris, France), Guy Chabot, Sophie Griveau, Daniel Scherman, Johanne Seguin

In Vivo Electrochemical Detection of Nitroglycerin-Derived NO in Tumor-Bearing Mice

s03-P-007

Veronica Bueno (Department of Chemistry, Materials and Chemical Engineering. Politecnico di Milano, Milano, Italy), Luciano Lazzari, Marco Ormellese, Paolo Spinelli

Characterization of metal nano-surfaces through the study of the fundamental electrochemistry of the double layer

s03-P-008

Hermes Carrero (Departamento de Química, Universidad Simón Bolívar, Caracas, Venezuela), Oscar Díaz, Lennys Fernández, Jorge Saturno, Danny Valera

Nanoparticles for Stripping Voltammetry in Flow Systems

s03-P-009

Mario Castaño-Álvarez (Departamento de Química Física y Analítica. Universidad de Oviedo, Oviedo, Spain), Agustín Costa-García, M. Teresa Fernández-Abedul, Ana Fernández-la-Villa, Diego F. Pozo-Ayuso

Single- and dual-channel PDMS microchip performance with electrochemical detection

s03-P-010

Alvaro Colina (Departamento de Química/Universidad de Burgos, Burgos, Spain), Patrick R. Unwin

Electrosynthesis and characterization of ultrathin nanostructured films of Polyaniline on Highly Oriented Pyrolytic Graphite

s03-P-011

Martin M Davila (Universidad Autonoma de Puebla, Puebla, Mexico), Maria Elizalde, Socorro Flores

Study of Flavonoids on Multi-Walled Carbon Nanotubes

s03-P-012

Yuliya Dzyazko (V.I. Vernadskii Institute of General & Inorganic Chemistry, Kiev, Ukraine), Marina Chaikina

Admittance spectra of nanosized mechanically activated mixtures of apatite composition

s03-P-013

Aidan Fagan Murphy (ITT Dublin, Dublin, Ireland)

Electrochemical Properties of Krebs Type Heteropolyanions in Solution and in the Immobilised State

s03-P-014

Luigi Falciola (Department of Physical Chemistry and Electrochemistry, University of Milano, Milano, Italy), Francesca Oberperfler, Stefano Trasatti

Electroanalytical determination of carboxylic acids

s03-P-015

Luigi Falciola (Department of Physical Chemistry and Electrochemistry, University of Milano, Milano, Italy), Francesca Delfino, Patrizia Mussini, Manuela Rossi, Mirko Viana

Ferricinium/ferrocene couple as a reference redox system for aqueous-organic mixed solvents

s03-P-016

Claire Fave (ITODYS CNRS UMR 7086 University of Paris 7, Paris, France), Jean Christophe Lacroix, Yann Leroux, Gaelle Trippé, Dodzi Zigah

Atomic contacts via Electrochemistry in water/cyclodextrin media: a step toward protected atomic contacts.

s03-P-017

Ana Fernández-la-Villa (Departamento de Química Física y Analítica, Universidad de Oviedo, Oviedo, Spain), Mario Castaño-Álvarez, Agustín Costa-García, M. Teresa Fernández-Abedul, Diego F. Pozo-Ayuso

CNT-modified gold wire electrode to enhance the sensitivity on microchip electrophoresis

s03-P-018

Raquel García-González (Departamento de Química Física y Analítica, Universidad de Oviedo, Oviedo, Spain), M. Teresa Fernández-Abedul

Amine-Functionalised CNTs for Sensitivity Enhancement of DNA-Analysis with Gold Screen-Printed Plectrodes

s03-P-019

Delia Gligor (Department of Physical Chemistry, "Babes-Bolyai" University, Cluj-Napoca, Romania), Yusuf Dilgin, Lo Gorton, Ionel Catalin Popescu

Electrocatalytic Detection of NADH Using Glassy Carbon Electrodes Modified With a New Poly-Phenothiazine Derivative

s03-P-020

Agustin Gonzalez Crevillén (Química Analítica, Facultad de Química, Universidad de Alcalá, Alcalá de Henares, Spain), Alberto Escarpa, Cristina González, Martin Pumera

carbon nanotubes: new electrochemical detectors in the natural antioxidants determination on microfluidic platforms

s03-P-021

Laura Gonzalez-Macia (Sensor and Separations Group, National Centre for Sensor Research, School of Chemical Science, Dublin City University, Dublin, Ireland), Anthony J. Killard, Aoife Morrin, Malcolm R. Smyth

Polyaniline Nanoparticles for Hydrogen Peroxide Sensing

s03-P-022

Carla Gouveia-Caridade (Departamento de Química/Universidade de Coimbra, Coimbra, Portugal), Hans-Dieter Liess, Christopher M. A. Brett

Carbon Film Resistor Electrodes: Electrochemical and Surface Morphological Characterization

s03-P-023

Sophie Griveau (Chemical and Genetical Pharmacology Laboratory, INSERM, U640, CNRS, UMR 8151, Paris, France), Fethi Bedioui

Investigation of the Spontaneous Adsorption of Diazonium Salts on Gold by Scanning Electrochemical Microscopy

s03-P-024

Jee-Hoon Han (Department of Chemistry/Yonsei University, Seoul, Korea)

HPLC Determination of Sugars with Inhibited Electrogenerated Chemiluminescence Based on Mesoporous Platinum Electrode

s03-P-025

Olivier Henry (Department of Chemical EngineeringUniversitat Rovira i Virgili, Tarragona, Spain), Malisweska Agnieska, Ciara K. O' Sullivan, Jörg Strutwolf

Controlled surface nanostructuring of electrochemical DNA sensors by selective electrodesorption of sacrificial alkanethiols at polycrystalline gold electrodes

s03-P-026

Lucas Hernandez (Analytical Chemistry, Madrid, Spain), Elias Blanco, Pedro Hernandez, Jose Vicente

Selective detection of molecules with different size by gold electrode modified with di-n-octadecyl-disulphide. Application to vitamin B_2 determination

s03-P-027

Lucas Hernandez (Analytical Chemistry, Madrid, Spain), Pedro Hernandez, Jose Vicente, Carmen Vilaseca

Determination of 2-methoxy-5-nitroaniline by adsorptive voltammetry

s03-P-028

Shahzad Imar (ITT Dublin, Dublin, Ireland), Timothy McCormac

Employment of the Layer by Layer Technique for the Immobilisation of Dawson Type Heteropolyanions

s03-P-029

Shin-ya Kishioka (Department of Chemistry, Nagaoka University of Technology, Nagaoka, Niigata, Japan), Yoshio Nosaka

Electrochemistry on flat gold film electrodes prepared by template-stripped methods

s03-P-030

Chrystelle Lebouin (Laboratoire d'Électrochimie et de Physicochimie des Matériaux et des Interfaces, Saint Martin d'Hères, France), René Faure, Pierre Millet, Yvonne Soldo Olivier

A study of two palladium - hydrogen nanosystems: epitaxial nanofilms on Pt(111) and nanoparticles

s03-P-031

Christine Lefrou (Grenoble INP, Saint Martin d'Hères, France), Renaud Cornut, Mathieu Etienne

New and precise way to extract Irreversible Substrate Kinetics parameter with SECM

s03-P-032

Kyung-Rae Lim (Department of Chemistry/Yonsei University, Seoul, Korea), Byung-Kun Kim

Electrochemical and Colorimetric Detection of Cholera Toxin Based on Galactose-Modified Electrode and Galactose-Stabilized Gold Nanoparticles

s03-P-033

Edilson M. Pinto (Faculdade de Ciências, Universidade de Coimbra, Coimbra, Portugal), Carla Gouveia-Caridade, Christopher M. A. Brett, David M. Soares

Electrochemical characterization of carbon films on piezoelectric quartz crystals

s03-P-034

Christine Malmgren (Mid Sweden UniversityEngineering Physics, Sundsvall, Sweden)

Behavioral effects of production parameters on DSA®

s03-P-035

Graciela Martinez-Paredes (Departamento de Química Física y Analítica, Universidad de Oviedo, Oviedo, Spain), Maria Begoña Gonzalez-Garcia

***In-situ* Electrochemical Generation of Gold Nanostructured SPCEs as Transducers of Genosensors**

s03-P-036

Mariko Matsunaga (Consolidated Research Institute for Advanced Science and Medical Care, Waseda University, Tokyo, Japan), Takuya Nakanishi, Tetsuya Osaka, Daisuke Yamamoto

Field Effect Transistor with SiO_2 Gate Modified with Au through Thiol-Terminated Self-Assembled Monolayer

s03-P-037

Mir Fazlollah Mousavi (Chemistry/TMU, Tehran, Iran (Islamic Republic of))

SECM Studies of Ion transport at nanostructured polyaniline film

s03-P-038

Patrizia Romana Mussini (Department of Physical Chemistry and Electrochemistry, University of Milano, Milano, Italy), Lucrezia L. Dieni, Torquato Mussini, Manuela Rossi

Voltammetric and Potentiometric Characterization of Model Redox Couples for Intercomparing Scales of Potentials and pH in Mixed Aqueous-Organic Solvents

s03-P-039

Patrizia Romana Mussini (Department of Physical Chemistry and Electrochemistry, University of Milano, Milano, Italy), Armando Gennaro, Abdirisak Ahmed Isse, Manuela Rossi

Potentialities and Peculiarities of Polycrystalline Silver as an Electrocatalytic Material for Organic Halide Detection

s03-P-040

Vincent Noel (ITODYS, CNRS UMR 7086, Paris Denis Diderot, Paris, France), Gregory March, Minh-Chau Pham, Benoit Piro, Steeve Reisberg

Naphtoquinone derivatives grafted at carbon electrode surface by diazonium electroreduction

s03-P-041

Alain Pailleret (CNRS-UPR 15 LISE, Université Pierre et Marie Curie, Paris, France)

Surface electrical behaviour of amorphous carbon nitride based electrode materials at the nanometric scale

s03-P-042

José M. Pingarrón (Department of Analytical Chemistry, Faculty of Chemistry University Complutense of Madrid, Madrid, Spain), Javier Manso, M. Luz Mena, Paloma Yáñez, Sedeño

Bienzyme amperometric biosensor using a gold nanoparticle-carbon nanotubes composite electrode for the determination of glucosinolates in foods

s03-P-043

Mamantos Prodromidis (Department of Chemistry, University of Ioannina, Ioannina, Greece), Dimitrios Gournis, Kyriaki Kardimi

PtRu Nanoparticles Supported on Multi-wall Carbon Nanotubes as Electrocatalysts of Hydrogen Peoroxide

s03-P-044

Hyacinthe Randriamahazaka (ITODYS, CNRS UMR 7086, Université Denis Diderot Paris 7, Paris, France), Claire Fave, Olivier Fontaine, Jalal Ghilane, Jean-Christophe Lacroix, Pascal Martin

Unusual behaviour of electroactive room temperature ionic liquid

s03-P-045

Monika Refczynska (Department of Chemistry, Warsaw University, Warsaw, Poland), Magdalena Skompska

Photoelectrochemical and spectroscopic studies of CdS obtained electrochemically on Au/poly(3,4-dioctyloxythiophene)

s03-P-046

Reka Repanszki (Materials Department, Atomic Energy Research Institute, Budapest, Hungary), Zsolt Kerner, Gabor Nagy

Adsorption of Fission Products on Structural Materials from the Primary Circuit

s03-P-047

Gustavo Rivas (Departamento de Fisicoquímica, Facultad de Ciencias Químicas, Universidad Nacional de Córdoba, Córdoba, Argentina), Laura Galicia, Alejandro Gutiérrez, Silvia Gutiérrez, Marcela Rodríguez, José Sandoval

Electrochemical sensors for the quantification of uric acid and dopamine based on the use of glassy carbon electrodes modified with multi-walled carbon nanotubes

s03-P-048

Marco Sampietro (Dipartimento di elettronica - Politecnico di Milano, Milano, Italy), Marco Carminati, Giorgio Ferrari, Fabio Gozzini

Integrated Current Probe for Electrochemical Measurements on Nanosamples

s03-P-049

Ricardo Santos (Center for Neuroscience and Cell Biology, University of Coimbra, Coimbra, Portugal), Rodney Andrews, Rui Barbosa, Greg Gerhardt, Peter Huettl, João Laranjinha, Cátia Lourenço, Ana Piedade, Francois Pomerleau

A Comparative Study of Carbon Fiber-Based Microelectrodes for the Measurement of Nitric Oxide in Brain Tissues

s03-P-050

Ali Osman Solak (Ankara University, Chemistry Dept., Ankara, Turkey), Seda Soyulmaz, Zafer Ustundag

EDTA modified glassy carbon electrode: preparation and characterization

s03-P-051

Sotirios Sotiropoulos (Chemistry Department, Aristotle University of Thessaloniki, Greece, Thessaloniki, Greece), Panagiota Agrafiotou, Lucie Baldrianova, Ivan Svancara, Karel Vytras

Cathodic Stripping Voltammetry of Cysteine at Bi-powder and Bi-film Carbon Paste Electrodes

s03-P-052

Sonia Tomie Tanimoto (Instituto de Química de São Carlos, Universidade de São Paulo, São Carlos, Brazil), Sérgio Antonio Spínola Machado

Characterization of Au nano-structures modified with self-assembled alcanothiol monolayer on glassy carbon surface

s03-P-053

Els Tourwé (Vrije Universiteit Brussel, Dept. Metallurgy, Electrochemistry and Materials Science, Brussels, Belgium), Iris De Graeve, Tom Hauffman, Annick Hubin, Jean-Baptiste Jorcin, Herman Terryn

Electroanalytical study of the self assembling of nanolayers of n-octylphosphonic acid upon aluminium oxide

s03-P-054

Edgar Ventosa (Departamento de Química, Universidad de Burgos, Burgos, Spain), Jesús López-Palacios, Virginia Ruiz, Patrick R. Unwin

Electrosynthesis of ultrathin poly(3,4-ethylendioxythiophene): control of the polymer morphology

s03-P-055

Claudia Yanez (Departamento de Quimica Organica y Fisicoquimica, Facultad de Ciencias Quimicas y Farmaceuticas, Universidad de Chile, Santiago, Chile)

Electrochemical behavior of steroids on cyclodextrin modified carbon paste electrode

s03-P-056

Do-Hyeon Yang (Environmental Parts R & D Center / Korea Automotive Technology Institute, Chonan, Korea), Ji Hye Min, Mee-Hye Oh, Jae Sup Shin, Do-Hyeon Yang, Yeo Seong Yoon

Immobilization and Electrochemical Redox of Cytochorme c on Fullerene Nanohybrid TiO_2-Gel Layer

s03-P-057

Carmen Andrade (IETcc-CSIC, Madrid, Spain), Jose Fullea, Juan J Gaitero, Antonio Porro, Javier Sanchez

Corrosion rate of a high strength steel by AFM

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers

s04-P-001

Joaquin Barjau (Kekulé-Institute for Organic Chemistry and Biochemistry, University of Bonn, Bonn, Germany), Siegfried R. Waldvogel

Structural Elucidation for the Oxidative Coupled Dehydrotrimers of 2,4-Dimethyl phenol

s04-P-002

Axel Kirste (Kekulé-Institute for Organic Chemistry and Biochemistry, University of Bonn, Bonn, Germany), Siegfried R. Waldvogel

Anodic Preparation of Biphenols on BDD electrodes

s04-P-003

Jörn Kulisch (Kekulé-Institute for Organic Chemistry and Biochemistry, University of Bonn, Bonn, Germany), Siegfried R. Waldvogel

Electrochemical Synthesis of Menthylamines

s04-P-004

Laura Alvarez-Griera (Departament de Química, Universitat Autònoma de Barcelona, Bellaterra, Spain), Iluminada Gallardo, Gonzalo Guirado

Estimation of p-Nitrobenzyl Radical Standard Potential by Spectro-Electrochemical Techniques

s04-P-005

Nargis Anwar (ITT Dublin, Dublin, Ireland), Ulrich Kortz, Timothy McCormac

Employment of Conducting Polymer films for the Immobilisation of Polyoxometallates

s04-P-006

Joaquín Arias-Pardilla (Departamento de Química Física and Instituto Universitario de Materiales, Universidad de Alicante, Alicante, Spain), Emilia Morallón, José Luis Vázquez

Electrogravimetric study of aminophenols and aniline polymerization on platinum electrode in acid medium

s04-P-007

Fátima Bento (Departamento de Química, Universidade do Minho, Braga, Portugal), Ana Paula Bettencourt, M. Dulce Geraldo, Raquel Oliveira

Electrochemical wine browning by potentiostatic and galvanostatic methods

s04-P-008

Ana Paula Bettencourt (Dept. Chemistry, University of Minho, Braga, Portugal)

Evaluation of the antioxidant activity of new compounds by cyclic voltammetry

s04-P-009

Renata Bilewicz (Faculty of Chemistry, University of Warsaw, Warsaw, Poland), Urszula Wawrzyniak, Agnieszka Wieckowska, Krzysztof Wozniak, Mateusz Wozny

Molecular Machines in Solution and on Electrode Surfaces

s04-P-010

Jana Bulickova (J.Heyrovský Institute of Physical Chemistry of ASCR, v.v.i., Prague - 8, Czech Republic), Miroslav Gál, Magdaléna Hromadová, Lubomír Pospíšil, Romana Sokolová

Fullerene in aqueous medium: good redox mediator

s04-P-011

José Miguel Campiña (Departamento de Química, Faculdade de Ciências, Universidade do Porto, Porto, Portugal), Ana Maria Martins, Fernando Silva

Effect of the Temperature on the Permeation of an 11-Amino-1-Undecanethiol (AUT) SAM by Electroactive Probes

s04-P-012

Pilar Cea (Departamento de Química Orgánica y Química Física e Instituto de Nanociencia de Aragón, Zaragoza, Spain), Héctor Artigas, Isabel Bandrés, Ignacio Gascón, Carlos Lafuente, M. Carmen López, Diego Montano, Félix M. Royo

Isolation of Molecular Wires into a non-conducting Matrix by the Langmuir – Blodgett Technique

s04-P-013

Susana Cordoba de Torresi (Instituto de Química, Universidade de São Paulo, São Paulo, Brazil), Fernanda F.C. Bazito, Leonardo Silveira, Roberto M. Torresi

Stabilization of pernigraniline conductive properties in hydrophobic room temperature ionic liquids

s04-P-014

Hugo Cruz (Departament de QuímicaUniversitat Autònoma de Barcelona, Bellaterra, Spain), Iluminada Gallardo, Gonzalo Guirado

Electrochemistry in Ionic Liquids: "Green" Approach to the Nucleophilic Aromatic Substitution Reaction

s04-P-015

Fernando Raul Diaz Alzamora (Quimica Organica, Facultad de Quimica, Pontificia Universidad Catolica de Chile, Santiago de Chile, Chile)

Electrosynthesis of Polyterthgiophenes, 3', Alquil aryl substiotuted, for development of Photovoltaic devices

s04-P-016

Christian Durante (Dept. Chemical Sciences, Padova, Italy), Abdirisak Ahmed Isse, Durante Christian, Sandonà Giancarlo

Electrocatalytic hydrodehalogenation of polychloromethanes at silver cathodes

s04-P-017

Virgínia Ferreira (CQB, Departamento de Química e Bioquímica, Faculdade de Ciências da Universidade de Lisboa, Lisboa, Portugal), Luisa Abrantes, Virgínia Ferreira, António Silva

Electrochemical and Morphological characterization of α,Ω-alkanedithiols and Au-NPs self-assembled on gold

s04-P-018

María Inés Florit (INIFTA, Facultad de Ciencias Exactas, Universidad Nacional de La Plata, La Plata, Argentina), Waldemar Marmisollé, Dionisio Posadas

Electrochemical Ageing of Poly(aniline) and its Ring Substituted Derivatives Films

s04-P-019

María Inés Florit (INIFTA, Facultad de Ciencias Exactas, Universidad Nacional de La Plata, La Plata, Argentina), Waldemar Marmisollé, Dionisio Posadas

The Electrochemical Ageing of Poly(o-Toluidine) Studied by Fluorescence Spectroscoy

s04-P-020

Miroslav Gal (J. Heyrovsky Institute of Physical Chemistry of ASCR, v.v.i., Prague, Czech Republic)

Polarographic and EIS Study of the Selected Cyclooxygenase-2 Inhibitors and their Basic Structural Units in Supramolecular Nanocavities

s04-P-021

Natalie Geinik (Chemistry, Beer Sheva, Israel), James Y. Becker, Armand Bettelheim

Spectroscopic and Electrochemical Characterization of Metalloporphyrins in RT Ionic Liquids

s04-P-022

Yurima Gimeno (Departamento de Química Física, Universidad de La Laguna, La Laguna, Spain), G. Benitez, L. Giovanetti, A. González Orive, D. Grumelli, J.M. Ramallo López, F.G. Requejo, R.C. Salvarezza, Y.S. Shon, C. Vericat

Electrochemical Modification of Nanoparticles: Melanin-iron Covered Gold Nanoparticles

s04-P-023

Anna Gitkis (Department of Chemistry, Ben-Gurion University of the Negev, Beer Sheva, Israel), James Y. Becker

Anodic Thiocyanation of Disubstituted Aromatic Compounds

s04-P-024

Lorenzo Gomez (Departamento. de Química Física y T. A., Univ. de Córdoba, Córdoba, Spain), Rafael Rodriguez-Amaro

Kinetics of thin film of $TCNQ^{0/-}$ Couple on a Glassy Carbon Electrode in the presence of Cesium ion

s04-P-025

Lorenzo Gomez (Departamento. de Química Física y T. A., Univ. de Córdoba, Córdoba, Spain), Rafael Rodriguez-Amaro

Spectroelectrochemistry and kinetics of the $TTF^{0/*}$ Couple over a Glassy Carbon Electrode in halide media

s04-P-026

Joaquin Gonzalez (Departamento de Química Física, Universidad de Murcia, Murcia, Spain), Nuria Abenza, Angela Molina

Study of supported molecular catalysis of electrochemical reactions with Reciprocal Derivative Chronopotentiometry

s04-P-027

Alejandro González Orive (Departamento de Química FísicaUniversidad de La Laguna, La Laguna, Tenerife, Spain), G. Benítez, Y. Gimeno, D. Grumelli, A. Hernández Creus, R.C. Salvarezza, C. Vericat

Electrochemical Preparation of Melanin Modified Graphite Surfaces

s04-P-028

M. Carmen Goya (Departamento de Química Física, Universidad de La Laguna, La Laguna, Spain), M. Jesús Aguirre, J. Francisco Armijo, Yurima Gimeno, Alejandro González-Orive, Alberto Hernández-Creus, Mauricio Lucero, América Marín

Modified Electrodes by Electropolimeritation of FeTAPP. Surfaces Modification after Electrocatalytical Processes

s04-P-029

Oxana Gribkova (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry RAS, Moscow, Russian Federation), Viktor Ivanov, Alexander Nekrasov, Vladimir Tverskoj, Anatoly Vannikov

Spectroelectrochemical properties of polyaniline films electrosynthesized in the presence of polyamidosulfonic acids with irregular distribution of sulfoacid groups

s04-P-030

Ester Guaus (Department of Chemical Engineering, Universitat Politècnica de Catalunya, Terrassa, Spain), Adhelhamid Errachid, Joan Torrent-Burgues, Nadia Zine

Glassy Carbon electrode modified with a Ionophore Langmuir-Blodgett film for Cu(II) recognition

s04-P-031

Ester Guaus (Department of Chemical Engineering, Universitat Politècnica de Catalunya, Terrassa, Spain), Joan Torrent-Burgues

Surface Electrochemistry of substituted Zn(II) phthalocyanines on solid electrodes

s04-P-032

Gonzalo Guirado (Departament de QuímicaUniversitat Autònoma de Barcelona, Bellaterra, Spain), Iluminada Gallardo, Gemma Prats, Michinori Takeshita

Electron-triggered motions for 1,2-dicyano[2.2]metacyclophan-1-enes Molecular Switches

s04-P-033

Irena Hoskovcova (Department of Inorganic Chemistry, Institute of Chemical Technology, Prague 6, Czech Republic)

Iron(0) Aminocarbene Complexes Bearing Heterocyclic Substituent on Carbene Carbon Atom: Electrochemistry and Reactivity

s04-P-034

Elzbieta Jablonowska (Faculty of Chemistry, University of Warsaw, Warsaw, Poland), Jan Biernat, Krzysztof Biesiada, Andrzej Olszyna, Kamila Sadowska

Langmuir - Blodgett layers of nanotubes modified with azocompounds

s04-P-035

Kumar Kendrekar (Chemistry Department, Beer Sheva, Israel), James Y. Becker

Electrochemical Properties of Stable Silylenes

s04-P-036

Takeshi Kondo (Department of Industrial Chemistry, Faculty of Engineering, Tokyo University of Science, Tokyo, Japan), Akira Fujishima, Takeshi Kawai, Akira Tamura

Surface Modification of Boron-Doped Diamond Electrode with Covalent Functional Monolayers

s04-P-037

Elene Kvaratskhelia (R. Agladze Institute of Inorganic and Electrochemistry, Tbilisi, Georgia)

The Regularities of Electrolytic Dissociation of the Homologues of Oxalic Acid

s04-P-038

Eduardo Laborda (Departamento de Química Física, Universidad de Murcia, Espinardo, Murcia, Spain), Richard Compton, Francisco Martinez-Ortiz, Angela Molina, Juan L. Petersen, Neil Rees, Carmen Serna

Reverse pulse voltammetry in spherical electrodes for measuring diffusion coefficients of both species of the electroactive couple

s04-P-039

Alexander Laguna (Laboratorio de Electroquímica, Universidad de Los Andes., Mérida, Venezuela), Yris Martínez, Elkis Weinhold

SNIFTIRS studies of the electrochemical oxidation of 1,2-didecahexoxybenzene on platinum in dichloromethane/ tetrabutylammonium tetrafluoroborate electrolyte.

s04-P-040

Adrian Lariño (Departament de Química, Universitat Autònoma de Barcelona, Bellaterra, Spain), Iluminada Gallardo, Gonzalo Guirado, Neus Vila

Stereoselective Formation of Cis- and Trans- dinitrostilbenes by Chemical or Electrochemical Methods

s04-P-041

Rose-Marie Latonen (Process Chemistry Centre, Åbo Akademi University, c/o Laboratory of Analytical Chemistry, Turku, Åbo, Finland), Ari Ivaska, Carita Kvarnström

Electrochemical Preparation and Characterization of a Nanoporous Poly(azulene)-TiO_2 Composite Layer

s04-P-042

Ezequiel Pedro Marcos Leiva (Unidad de Matemática y Física - INFIQC, Facultad de Ciencias Químicas, Univerisidad Nacional de Córdoba, Córdoba, Argentina), Patricio Vélez, Martin Eduardo Zoloff Michoff

Mechanical stability of N-Au nanojunctions. A DFT study.

s04-P-043

Zelin Li (Department of Chemistry, Hunan Normal University, Changsha, China), Wei Huang, Jufang Zheng

Oscillatory Electrocatalytic Oxidation of Small Biomolecules on a Nanoporous Electrode of $Ni(OH)_2$

s04-P-044

Rafael Madueño (Química Física y Termodinámcia Aplicada, Córdoba, Spain), Manuel Blázquez, Teresa Pineda, José Manuel Sevilla, Alfonso Javier Viudez

Synthesis and characterization of 6-mercaptopurine monolayer protected gold clusters (6MP-MPCs)

s04-P-045

Reyes Malavé Osuna (Department of Physical Chemistry, Málaga, Spain), Peter Bäuerle, Víctor Hernández, Juan T. López Navarrete, Barbara Vercelli, Gianni Zotti

In Situ UV-Vis-NIR Spectroelectrochemical Study of a Series of Dicyanovinyl End-Capped Oligothiophenes

s04-P-046

Ana Marquez (Química Física y Termodinámica Aplicada, Córdoba, Spain), Manuel Blázquez, Daniel García-Raya, Rafael Madueño, Teresa Pineda, José Manuel Sevilla

Solvent effect on the electrochemistry of Au38 nanoparticles protected by hexanethiolate

s04-P-047

Olga P. Márquez (Universidad de Los Andes - Facultad de Ciencias - Departamento de Química, Mérida, Venezuela), Jairo Márquez

Electropolymerization of veratrole in the presence of water

s04-P-048

Mónica Martín (Universidad de los Andes, Facultad de Ciencias, Departamento de Química, Mérida, Venezuela)

Electrochemical studies of CO_2 electroreduction in aqueous Zn(II) and Zn(II)-porphyrin solutions on glassy carbon electrodes

s04-P-049

Angela Molina (Departamento de Química-Física, Universidad de Murcia, Murcia, Spain), Joaquin A. Ortuño, Carmen Serna, Encarnacion Torralba

A general mathematical model for the study of amperometric ion-sensors

s04-P-050

Zekra Mousavi (Laboratory of Analytical Chemistry/Åbo Akademi University, Turku, Finland), Johan Bobacka, Ari Ivaska, Andrzej Lewenstam

Response Mechanism of Potentiometric Ag^+ Sensor Based on Conducting Polymer

s04-P-051

Patrizia Romana Mussini (Dept of Physical Chemistry and Electrochemistry, University of Milano, Milano, Italy), Giacomo Berzi, Luigi Falciola, Armando Gennaro, Abdirisak Ahmed Isse, Manuela Rossi

Dissociative Electron Ttransfer in Electrocatalytic Conditions: the Case of Aryl Bromides and Chlorides on Silver

s04-P-052

Patrizia Romana Mussini (Dept. of Physical Chemistry and Electrochemistry, University of Milano, Milano, Italy), Giuseppe D'Alfonso, Laura D'Alfonso, Daniela Donghi, Matteo Mauro, Pierluigi Mercandelli, Monica Panigati, Angelo Sironi

Electrochemical Activity of a New Class of Luminescent Tricarbonyl Rhenium(I) Complexes Containing Bridging 1,2 Diazine Ligands

s04-P-053

Luis Nuñez-Vergara (Facultad de Ciencias Químicas y Farmacéuticas, Universidad de Chile, Santiago, Chile)

Electrochemical Characterization of Some New Chromeno[3,4-c]pyridines in Aprotic Medium.

s04-P-054

Renáta Orináková (University of P.J. Šafárik, Institute of Chemistry, Department of Physical Chemistry, Košice, Slovakia), Miriam Gálová, Rastislav Scholz, Magdaléna Strecková

Study of cathodic processes during the electrolytical deposition of nickel from Watts electrolyte

s04-P-055

Rasa Pauliukaite (Departamento de Quimica, Coimbra, Portugal), Albertas Malinauskas, Ausra Selskiene

Electropolymerisation and Characterisation of Poly(Safranin T)

s04-P-056

Emese Peintler-Kriván (University of Szeged, Department of Physical Chemistry, Szeged, Hungary), Tamás Kötrvélyesi, Csaba Visy

Bioelectrochemical Application of The Polypyrrole/cyanocobalamin Composite Electrode

s04-P-057

Sara Pintado (Quimica Fisica y Termodinamica Aplicada, Cordoba, Spain), Jose Miguel Rodriguez Mellado, Mercedes Ruiz Montoya

Electrochemical behaviour of quinmerac, quinclorac and 8-quinolinecarboxylic acid

s04-P-058

Daniela Plana (School of Chemistry, Manchester, United Kingdom)

The oxidation mechanism of borohydride and dimethylamine borane: application to fuel cells and electroless deposition

s04-P-059

Hyacinthe Randriamahazaka (ITODYS, CNRS UMR 7086, Paris Denis Diderot Paris 7, Paris, France), Vincent Noel

Tunable intramolecular hydrogen bonding in semi-interpenetrating conducting polymer networks based on poly(1,5-diaminoanthraquinone) and poly(3,4-ethylenedioxythiophene)

s04-P-060

Gonzalo Riveros (Departamento de Química y Bioquímica, Facultad de Ciencias, Universidad de Valparaíso, Valparaíso, Chile), Carolina Garín

Silicon Modification with Ruthenocene Molecules

s04-P-061

Rafael Rodriguez-Amaro (Department of Physical-Chemistry and Applied Thermodynamic, Univ. de Córdoba, Córdoba, Spain), Manuel Cano, Antonio J. Fernandez-Romero

Voltammetric Ion Sensors Evaluated by Butler-Volmer Based Treatment, Application to Polypyrrole Films

s04-P-062

Carlos Rojas (Universidad de Los Andes, Facultad de Ciencias, Dpto. de Química, Mérida, Venezuela), Yris Martínez

Electrochemical studies of CO_2 electroreduction in aqueous Fe(II) and Fe(II)-porphyrin solutions on glassy carbon electrodes

s04-P-063

Manuela Rossi (Department of Physical Chemistry and Electrochemistry, University of Milano, Milano, Italy), Claudia Letizia Bianchi, Armando Gennaro, Abdirisak Ahmed Isse, Patrizia Romana Mussini

Glassy Carbon Surface Morphology as a Semiquantitative Probe for Slow Electron Transfer in Mechanistic Studies

s04-P-064

Manuela Rossi (Department of Physical Chemistry and Electrochemistry, University of Milano, Milano, Italy), Armando Gennaro, Abdirisak Ahmed Isse, Patrizia Romana Mussini, Irene Primerano

Supporting Electrolyte Bulkiness as a Semiquantitative Probe for Slow Electron Transfer in Dissociative Electron Transfer Studies

s04-P-065

M. Ruiz Montoya (Departamento de Ingeniería Química, Química Física y Química OrgánicaUniversidad de Huelva, Huelva, Spain), S. Pintado, J. M. Rodríguez Mellado

Electrochemical reduction of the imidazolinone herbicide Imazamethabenz-methyl on mercury and carbon electrodes

s04-P-066

Carlos Sanchis (Departamento de Quimica Fisica, Instituto Universitario de Materiales, Alicante, Spain)

New Electrocatalytic Abilities of Sulfonated Polyaniline after Aging in Ammonia Solutions

s04-P-067

Chen Shen-ming (Department of Chemical Engineering and Biotechnology, National Taipei university of Technology, Taipei, Taiwan), A. Balamurugan

Electrochemical sensing of biomolecules using PEDOT hybrid electrode

s04-P-068

Alex Shtelman (Chemistry, Beer Sheva, Israel)

Preparation of functional disilaalkanes by Kolbe oxidation of α-silylacetic acids

s04-P-069

Magdalena A. Skopek (Department of Chemistry, University of Leicester, Leicester, United Kingdom), Steve J. Gurman, A. Robert Hillman

EXAFS Studies of Cobalt and Nickel Hexacyanoferrate Electroactive Films

s04-P-070

Romana Sokolova (J.Heyrovsky Institute of Physical Chemistry, v.v.i., Academy of Sciences of the Czech Republic, Prague, Czech Republic), Jana Bulickova, Maria Perla Colombini, Ilaria Degano, Miroslav Gal, Magdalena Hromadova, Lubomir Pospisil, Michal Valasek

The oxidation of natural dyes: hematoxylin

s04-P-071

Santiago M. Solans (Department of Chemistry, Liverpool University, Liverpool, United Kingdom), Pilar Cea, Wolfgang Haiss, Simon Higgins, Mari Carmen Lopez, Richard Nichols

An STM Study Under Electrochemical Control of the Influence of Mixed Functional Groups on Single Molecule Conductance

s04-P-072

Carmen Soto (Departamento de Química Física, Universidad de Murcia, Murcia, Spain), Joaquin Gonzalez, Manuela Lopez-Tenes

Study of homogeneous molecular catalysis of redox reactions with Chronopotentiometry with an exponential current

s04-P-073

Juan Squella (Facultad de Ciencias Químicas y Farmacéuticas, Unuiversidad de Chile, Santiago, Chile)

Voltammetric Reduction of 4-(4-nitro-1-methyl-2-imidazolyl)-1,4-Dihydropyridine Derivatives

s04-P-074

Tarmo Tamm (Institute of Technology, University of Tartu, Tartu, Estonia), Terje Raudsepp, Urmo Visk

Electrochemical, Theoretical, and IR Study of the Overoxidation of Polypyrrole

s04-P-075

Libuse Trnkova (Department of Chemistry, Faculty of Science, Masaryk University Brno, Brno, Czech Republic), Miriam Galova, Renata Orinakova, Magdalena Streckova

Effect of Electrolyte Anions and Electrode Surface upon Hydrogen Evolution Studied by Elimination Voltammetry

s04-P-076

Ana Viana (CQB, Departamento de Química e Bioquímica, Faculdade de Ciências, Universidade de Lisboa, Lisboa, Portugal), Luisa Maria Abrantes, Christoph Eberle, Franz-Peter Montforts

Immobilisation of a Novel Metalloporphyrin-Fullerene Dyad: Direct Self-Assembly and Diels-Alder reaction on modified gold

s04-P-077

Elena Volanschi (Department of Physical Chemistry, University of Bucharest, Bucharest, Romania), Valentina Lazarescu, Mihai Lazarescu, Ana Maria Toader

Cyclic Voltammetry and EIS Study of Hemin on p-GaAs(100) Electrodes

s04-P-078

Daniela Zane (Consiglio nazionale delle Ricerche (CNR) Istituto Materiali Nanostrutturati (ISMN), Roma, Italy), Giovan battista Appetecchi, Stefano Passerini

Electrosynthesis of poly(o-phenylenediamine) and poly(pyrrole) in room temperature ionic liquids

s04-P-079

Veronika A. Zinovyeva (ICMUB - UMR 5260 CNRS, Université de Bourgogne, Dijon, France), Laurent Gaillon, Michel Picquet, Cécile Rizzi, Mikhail A. Vorotyntsev

Is the Current of the Ferrocene (Fc) Oxidation in Ionic Liquids Proportional to its Concentration? Electrochemical and Spectral Properties of Fc in 1-butyl-3-methylimidazolium triflimide

s04-P-080

Jesús López-Palacios (Departamento de Química, Burgos, Spain), Alvaro Colina, Sonia Dsoke, Aránzazu Heras, Roberto Marassi, Pilar Merino, Virginia Ruiz

Spectroelectrochemical study of Keggin-type heteropolyanions in aqueous media

s04-P-081

Lubomír Pospíšil (J. Heyrovský Inst. of Physical Chemistry, Prague, Czech Republic), Louis Adrianssens, Zuzana Krausová, Radek Pohl, Lukáš Severa, Petr Slavícek, Ivo Starý, Filip Teplý

Fast Organic Redox Systems: Helicene and Helquat

s04-P-082

Kuniaki Murase (Department of Materials Science and Engineering, Kyoto University, Kyoto, Japan), Takashi Ichii, Daiji Kasahara, Hikaru Sano, Hiroyuki Sugimura

Mild Preparation of Vinylferrocene SAM Directly Attached to H-Si(111) Surface Using Visible Light Irradiation

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

s05-P-001

Evren Aslan Guerel (Department of Chemistry and Biochemistry, University of Bern, Bern, Switzerland), David J. Fermin, Jianjun Zhao

Charge Transport in Electrodes Modified By Ultrathin Polyelectrolyte/Conducting Polymer Composites

s05-P-002

Kitani Akira (Graduate School of Engineering, Hiroshima University, Higashihiroshima, Japan), Kohno Takeaki

Electrochemical preparation of polyaniline microballs incorporated with DNA

s05-P-003

Anna Amell (Electrodep, Department of Physical Chemistry, University of Barcelona, Barcelona, Spain), C. M. Muller, M. Sarret

Micro- and nanocomposite coatings from a sulfamate bath

s05-P-004

Elsa Arce (Instituto Politécnico Nacional, Departamento de Metalurgia y Materiales., México, Mexico)
Comparative study Ru-Se 1:1 AND 1:2 electrocatalyst synthesized by mechanical alloying for oxygen reduction reaction.

s05-P-005

Christos Argirusis (Institut für Metallurgie, Technische Universität Clausthal, Clausthal-Zellerfeld, Germany), Sladjana Matic, Oliver Schneider, Jovana Zecevic
The electrochemical quartz crystal microbalance technique in sonoelectrochemistry

s05-P-006

Christos Argirusis (Institut für Metallurgie, Technische Universität Clausthal, Clausthal-Zellerfeld, Germany), Sladjana Matic, Oliver Schneider, Jovana Zecevic
Sonoelectrochemical deposition of functional metal-ceramic and metal-metal composite layers

s05-P-007

Christos Argirusis (TU ClausthalInst. f. Metallurgy, Clausthal-Zellerfeld, Germany), Jana Große-Brauckmann, Virginie Lair
Electrophoretic Deposition of Oxide Layers with Ionic Liquids

s05-P-008

Juan Armijo (Facultad de Química, Pontificia Universidad Católica de Chile, Santiago, Chile), Rodrigo del Rio, Mª Angelica del Valle
Electrochemically polymerized composites of o-aminophenol and flavins. Application as electrochemical sensor.

s05-P-009

Begoña Asenjo (Renewable Energies, CIEMAT, Madrid, Spain), Veronica Bermudez, Antonio Chaparro, Cecilia Guillén, Teresa Gutierrez, Jose Herrero, Daniel Lincot, Edgardo Saucedo
Properties of In_2S_3 thin films deposited onto ITO/glass substrates by chemical bath deposition

s05-P-010

Mihaela Baibarac (National Institut of Materials Physics, Optics and Spectroscopy Laboratori, Bucharest-Magurele, Romania)
Electrochemical polymerization of indole in the presence of single walled carbon nanotubes

s05-P-011

Lucie Baldrianova (Department of Analytical Chemistry / University of Pardubice, Pardubice, Czech Republic), Samo B. Hocevar, Bozidar Ogorevc, Ivan Svancara, Eva Tesarova, Karel Vytras
Antimony-Modified Electrodes in Electrochemical Stripping Analysis of Trace Heavy Metals

s05-P-012

Ioan Baltog (National Institute of Materials Physics, Optics and Spectroscopy Department, Bucharest-Magurele, Romania)
Electrochemical Polymerization of Biphenyl in the Presence of Single Walled Carbon Nanotubes

s05-P-013

Gábor Bencsik (Institute of Physical Chemistry, University of Szeged, Szeged, Hungary)
Photo-electrochemistry of iron oxalate containing conducting polymers

s05-P-014

Tânia Machado Benedetti (Instituto de Química, Universidade de São Paulo, São Paulo, Brazil), Lirian Aranda, Willian Menezes, Dayanne Reis, Jaisa Soares, Roberto Torresi, Aldo Zarbin
Electrochemical behavior in ionic liquid of V_2O_5 nanoparticles deposited by electrophoresis

s05-P-015

Leonard Berlouis (Pure and Applied Chemistry, Glasgow, United Kingdom), Pierre-Francois Brevet, Kirstin Forsyth, Alastair Wark
SERS from Electrochemically-Formed Ordered Arrays of Gold and Silver Nanorods

s05-P-016

Leo Binder (Graz University of Technology, Institute for Chemistry and Technology of Inorganic Materials, Graz, Austria), Josef Haring
Galvanic Deposition of Metal-Metal Oxide Composites

s05-P-017

Sergio Blanco (Centro de Tecnologia de Materiales, Fundacion Instituto de Ingenieria, Caracas, Venezuela), Carlos Borras, Jorge Mostany, Benjamin Scharifker

A nickel nanowire sensor: construction, characterization and electrochemical evaluation

s05-P-018

Christa Bünzli (School of Chemistry, University of Bristol, Bristol, United Kingdom), David Fermín

Photoelectrochemical Investigations of Columnar ZnO Nanoarrays

s05-P-019

Manuel Cano (Departamento de Física, Química y Sistemas Naturales, Sevilla, Spain), Angel Barranco, Luis Camacho, Pedro Castillero, Agustín R. González-Elipe, José María Pedrosa, Juan R. Sánchez

Electrochemical Properties of a Porphyrin Infiltrated into a Columnar TiO_2 Thin Film Modified ITO Electrode

s05-P-020

Geta Carac (University Dunarea de Jos Galati, Department of Chemistry, Galati, Romania), Catalina Iticescu, Thomas Lampke, Monica Murarescu

Effect of nano-Al_2O_3 particles on the electrodeposition of Ni-Co alloys

s05-P-021

Lee Chang-Wook (National Research Laboratory of Energy Conversion and Storage Materials, Department of Metallurical Engineering, Yonsei University, Seoul, Korea)

Fabrication of Cellular Nickel Thin Film by Electrochemical Dealloying for Supercapacitor Applications

s05-P-022

Lee Chang-Wook (National Research Laboratory of Energy Conversion and Storage Materials, Department of Metallurgical Engineering, Yonsei University, Seoul, Korea)

Synthesis of Mesoporous MnO_2/CNT Nano-composite for Supercapacitor Application

s05-P-023

Shen-Ming Chen (Department of Chemical Engineering and Biotechnology, National Taipei University of Technology, Taipei, Taiwan), S. Ashok Kumar

Meldola's blue/ZnO and Toluidine blue/ZnO hybrid film coated electrodes : Electrochemical preparation, characterization and electrocatalysis

s05-P-024

Paula Cojocaru (Politecnico di Milano, CMIC, Milano, Italy), Pietro Luigi Cavallotti, Luca Magagnin, Fabio Muscolino

Properties of ECD nickel submicron composites:Mechanical behaviour and thermal stability of nanostructured carbon-based Materials

s05-P-025

Meritxell Cortés (Electrodep, Dpt. Química Física and Institut de Nanociència i Nanotecnologia (IN2UB), Universitat de Barcelona, Barcelona, Spain), Elvira Gómez, Alejandro Pérez-Rodríguez, Christophe Serre

Copper electrodeposition for Si compatible inductive microsystems

s05-P-026

Sonia R. Biaggio (Departamento de Química, Universidade Federal de São Carlos, São Carlos, Brazil) Carla Dalmolin, Romeu C. Rocha-Filho, Nerilso Bocchi

Electrochemical properties of nanostructured polypyrrole electrosynthesized in ionic liquids

s05-P-027

Katia De Henau (Universiteit Gent, Gent, Belgium)

Controlled electrodeposition of iron nanoparticles on a blanket Si(100) surface

s05-P-028

Djenaine De Souza (Departamento de Química, Universidade Federal de São Carlos, São Carlos, Brazil), Orlando Fatibello-Filho, Lucia Mascaro

Construction and characterization of amalgam electrodes with different proportions of silver mercury for analytical applications

s05-P-029

F. Javier del Campo (Microsistemas, Centro Nacional de Microelectrónica (IMB-CNM-CSIC), Bellaterra, Spain), Enric Bertrán, Jordi García-Céspedes, Francesc Xavier Muñoz

Fabrication of carbon nanotube forest thin film electrodes

s05-P-030

Jessica DENAYER (Laboratory of Electrochemistry and Chemistry of Surfaces, Namur, Belgium), Joseph Delhalle, Zineb Mekhalif

Molecular Self-Assembly of Alkanethiol Mono and Bipode on Copper

s05-P-031

Alejandro Diana (Química Física/Universitat de València, Burjassot, Spain)

Spectroelectrochemistry of poly-azines and poly-phenothiazines deposited on ITO electrodes

s05-P-032

Alarcon Domingo (Chemical/ Universidad de los Andes, Merida, Venezuela)

Electrodeposicion and characterization of binary semiconductors of type XSe (X= Pb, Cu).

s05-P-033

Lioudmila Doubova (CNR-IENI, Padua, Italy), Simone Battiston, Stefano Boldrini, Sergio Daolio, Monica Fabrizio, Rosalba Gerbasi, Silvia Gross, Enrico Miorin, Francesco Montagner, Cesare Pagura

Photo-Activity of Doped/Undoped Nanostructured Titanium Oxide Thin Film Deposited via RF Magnetron Sputtering.

s05-P-034

Hakim El Bouhoutia (University Abdelmalek Essaâdi, Department of Chemistry, Faculty of Sciences of Tétouan, Tetouan, Morocco), Dounia Bouchta, José Luis Hidalgo Hidalgo de Cisneros, Khalid Riffi Temsamani

A Sonogel-Carbon/l-cystein modified electrode for detection of dopamine

s05-P-035

Pablo Fanjul (Departamento de Química-Física y Analítica. Universidad de Oviedo, Oviedo, Spain), Pedro J. Lamas

Gold ultramicroelectrode arrays based on screen printed electrodes

s05-P-036

Grégory Fonder (Département de Chimie/Facultés universitaires Notre-Dame de la Paix de Namur, Namur, Belgium), François Berger, Balazs Csoka, Joseph Delhalle, Zineb Mekhalif

Self–Assembled Monolayers of alkanethiols and alkaneselenols on Copper

s05-P-037

Mauricio Fonseca (Deparment of Chemistry / University of Minho, Braga, Portugal), Isabel Correia Neves, Sara Gonçalves, Pier Parpot

Electrochemical behaviour of zeolite-encapsulated transition metal complex on carbon support

s05-P-038

Silvana García (INIEC - Instituto de Ingenieria Electroquimica y Corrosion - Universidad Nacional del Sur, Bahía Blanca, Argentina), María Cecilia del Barrio

Formation of Ag/Cd Heterostructures Electrodeposited on Au(111)

s05-P-039

Eva García - Lecina (Surface Finishing Department, CIDETEC, Electrochemical Technology Centre, Donostia-San Sebastián, Spain), Patricia Calvillo - Guinaldo, Mario Díaz - Fuentes, Itziar García - Urrutia

Electrodeposition and Characterization of Ni/Al_2O_3 Nanocomposite Coatings

s05-P-040

Jose Garcia-Torres (Electrodep. Dpt. Química Física and Institut de Nanociència i Nanotecnologia (IN2UB). Universitat de Barcelona, Barcelona, Spain), Elisa Valles

Influence of preparation conditions on Co-Ag films properties

s05-P-041

Juan Luis Gautier (Departamento de Química de los Materiales, Universidad de Santiago de Chile, Santiago, Chile)

Polypyrrole Thin Films on Semiconducting Transparent Substrates

s05-P-042

Juan Luis Gautier (LEFQS, Universidad de Santiago de Chile, FQB, Materials Chemistry Department., Santiago, Chile), Ramón Gancedo, José Marco, Erika Meza, Juan Ortiz

Structural and Electrochemical Study on Li- Ni-Co Oxides

s05-P-043

Maria Luisa Almoraima Gil (Department of Physical Chemistry, Faculty of Science, University of Cádiz, Puerto Real, Spain), Laura María Cubillana-Aguilera, José Luis Hidalgo-Hidalgo de Cisneros, Ignacio Naranjo-Rodríguez, José María Palacios-Santander

A New Gold Nanoparticles-Sonogel-Carbon Sensor

s05-P-044

Anabela Gomes (CCMM, Chemistry Department, Science Faculty of Lisbon, Lisbon, Portugal), M. Isabel da Silva Pereira, Tânia Frade

Electrodeposited Zn-TiO_2 Nanocomposites forWastewater Treatment: Preparation, Characterisation and Stability

s05-P-045

Humberto Gomez (Instituto de Quimica, Pontificia Universidad Catolica de Valparaiso, Valparaiso, Chile)

Electrodeposition of ZnO Films from DMSO Solution in Presence of Surfactant Additives

s05-P-046

Yaiza Gonzalez-Garcia (Institute for Experimental and Applied Physics, University of Kiel, Kiel, Germany), Olaf Magnussen

In situ AFM investigation of photoswitching in azo-polymers thin films

s05-P-047

Doris Grumelli (INIFTA (Instituto Nacional de Investigaciones Fisico Quimicas teoricas y Aplicadas), La Plata, Argentina), Guillermo Benitez, Y. Gimeno, Lisandro Giovanetti, Alberto Hernánez Creus, Alejandro Orive, Jose M. Ramallo López, Felix Requejo, Roberto Salvarezza, Y. Shon, Carolina Vericat

Electrochemical Modification of Nanoparticles: Melanin-Iron Covered Gold Nanoparticles

s05-P-048

Henrik Gustafsson (Åbo Akademi University, Process Chemistry Centre, c/o Laboratory of Analytical Chemistry, Åbo - Turku, Finland), Ari Ivaska, Carita Kvarnström, Fredrik Sundfors

Poly(3,4-ethylenedioxythiophene) on Aluminium: Electrochemical Properties and Potential Applications

s05-P-049

Rodrigo Henriquez (Laboratorio de Electroquímica, Instituto de Química, Facultad de Ciencias, Pontificia Universidad Católica de Valparaíso., Valparaíso., Chile), Enrique Dalchiele, Humberto Gómez, Paula Grez, Daniel Lincot, Ricardo Marotti, Eduardo Muñoz

One-Step Potentiodynamic Synthesis of Polycrystalline Cadmium Oxide (CdO) Thin Films in DMSO Solution.

s05-P-050

María Aránzazu Heras Vidaurre (Analytical Chemistry Area, Department of Chemistry, University of Burgos, Burgos, Spain), Alvaro Colina, Jesús López-Palacios, Laura Pigani, Virginia Ruiz, Renato Seeber, Fabio Terzi, Chiara Zanardi

Bidimensional Spectroelectrochemistry: A Powerful Technique to Investigate the Electrosynthesis and Doping of Polymer Nanocomposites.

s05-P-051

Keigo Ichinose (Gifu University, Gifu, Japan), Tomoaki Mizuno, Tsukasa Yoshida

Control of Nanostructure and Crystallographic Orientation in Electrodeposition of ZnO Hybrid Thin Films Using Templates

s05-P-052

Nobuhito Imanaka (Applied Chemistry, Osaka University, Suita, Japan)

High Ba^{2+} Ion Conducting Polycrystalline Solid

s05-P-053

Csaba Janáky (Institute of Physical Chemistry, University of Szeged, Szeged, Hungary)

Chemical and electrochemical synthesis of poly(thiophene-3-acetic-acid) – magnetite nanocomposite

s05-P-054

Anna Jarek (AGH University of Science and Technology, Faculty of Non-Ferrous Metals, Krakow, Poland), Remigiusz Kowalik, Piotr Zabinski

Morphology of functional Ni-W alloys coatings for hydrogen evolution in 8 M NaOH.

s05-P-055

Anna Jarosik (Max Planck Institute for Solid State Research, Stuttgart, Germany), Sarmimala Hore, Nitin Kaskhedikar, Joachim Maier, Uwe Traub

Percolation of oxide networks in composites of solid and non-aqueous lithium salt solutions

s05-P-056

Jong-Pil Jegal (Department of Materials Science and Engineering, Seoul, Korea), Kwang-Heon Kim

Carbon Coating on Vanadium oxide by Amino-functionalization

s05-P-057

Yan-Xia Jiang (Department of Chemistry, Xiamen University, Xiamen, China), Yan-Xia Jiang, Hong-Gang Liao, Dong-Hai Lin, Shi-Gang Sun

Preparation of Silver Nanoparticles Confined in SBA-15 and their Electrochemical Properties

s05-P-058

Anne Jung (Physical Chemistry, Saarbrücken, Germany), Rolf Hempelmann, Erhardt Lach, Harald Natter

Improved mechanical behaviour of electrochemically deposited n-Ni/n-Al_2O_3 metal matrix composites

s05-P-059

Iraj Kazeminezhad (Physics, Ahvaz, Iran (Islamic Republic of)), Mansour Farbod, Elham Khoshbakht

Electroplating and Nanostructure Study of Ultra Thin Cu/Constantan Bilayer on GaAs from Citrate and Sulphamate Electrolytes

s05-P-060

Iraj Kazeminezhad (Physics, Ahvaz, Iran (Islamic Republic of)), Mehrnoosh joneidy, Gholamreza Nabiyouni

Nanostructure Study of Electrodeposited Co-Cu/Pt Multilayer

s05-P-061

Kwang-Heon Kim (Deparment of Metallurgical Engineering, Yonsei University, Seoul, Korea)

Synthesis of Carbon Coated Metal Oxide Hybrid Nanocomposite by Hydrothermal Carbonization for Supercapacitors

s05-P-062

Veniamin Kondratiev (Department of Chemistry, St. Petersburg State University, St. Petersburg, Petrodvoretz, Russian Federation), Tatyana Babkova, Svetlana Eliseeva

Ion and Solvent Transfer Processes During p-doping of PEDOT Films in Acetonitrile and Propylenecarbonate Solutions

s05-P-063

Veniamin Kondratiev (Department of Chemistry, St. Petersburg State University, St. Petersburg, Petrodvoretz, Russian Federation), Svetlana Eliseeva, Elena Tolstopyatova

The Study of PEDOT-based Composite Materials Containing Palladium Nanoparticles

s05-P-064

Ivet Kosta (Electrodep. Dpto. Quimica-Física, Barcelona, Spain), Carlos Müller, Maria Sarret

CoP Electroplates on hard steel

s05-P-065

Cheng-Yuan Lai (Materials Research Group, School of Pharmacy and Chemistry, Kingston University, Kingston Upon Thames, United Kingdom), John Brown, Peter Foot

The Synthesis of Novel Electrochromic Materials to Increase The Colour-changing Service Life of Poly(3-hexylthiophene), and Investigation of Their Optical and Electrical Properties.

s05-P-066

Zelin Li (Department of Chemistry, Hunan Normal University, Changsha, China), Yanping Deng, Li Fu, Wei Huang, Jina Wu

Electrochemical Fabrication and Applications of Some Three-dimensional Porous Electrodes

s05-P-067

Maria Marcu (Institute of Physical Chemistry, Bucharest, Romania), Alexandra Banu, Dan Marcu

NiOCoO nanocomposites in a polymer matrix

s05-P-068

Bernabé Marí Soucase (IDF-DFA, Universitat Politècnica de València, València, Spain), Francisco Javier Manjón, Miguel Mollar, Mariola Tortosa

Optical properties of electrodeposited ZnMnO films

s05-P-069

Hiroshi Matsubara (Nagaoka University of Technology, Nagaoka, Japan), Kazunori Hodouchi, Yasunobu Inoue, Hiroshi Matsubara, Hiroshi Nishiyama, Nobuo Saito, Satoshi Sutou

Co-Deposition Behavior of Nanodiamond Particles in Nickel Tungsten Plated Films

s05-P-070

Beatriz Meana Esteban (Åbo Akademi University, Process Chemistry Centre, c/o Laboratory of Analytical Chemistry, Åbo-Turku, Finland), Lothar Dunsch, Ari Ivaska, Carita Kvarnström, Andreas Petr

In situ study of the nature of the charge carriers in aromatic fused ring systems

s05-P-071

Jan Migdalski (AGH University of Science and Technology, Krakow, Poland), Boguslaw Bas, Teresa Blaz, Jerzy Golimowski, Andrzej Lewenstam, Barbara Zralka

Multi-electrode, maintenance and internal solution free galvanic cells for potentiometric measurements

s05-P-072

Jan Migdalski (AGH University of Science and Technology, Krakow, Poland), Teresa Blaz, Andrzej Lewenstam, Barbara Zralka

Copper-sensitive potentiometric sensors based on PEDOT-Arsenazo films

s05-P-073

Jan Migdalski (AGH University of Science and Technology, Krakow, Poland), Teresa Blaz, Andrzej Lewenstam

Conducting polymer based Cd^{+2} potentiometric sensors.

s05-P-074

Montilla Milagro (Chemical/ Universidad de Los Andes, Merida, Venezuela)

Electrochemical grown of FeCdTe and NiCdTe from alkaline solutions on gold electrode.

s05-P-075

Javier Molina (Departamento de Ingeniería Textil y Papelera/ Universidad Politécnica de Valencia, Alcoi, Spain), José Bonastre, Francisco Cases, Ana Isabel del Río

Electrochemical Polymerisation of Polypyrrole and Polyaniline onto Conducting Textiles of Polyester/Polypyrrole

s05-P-076

Marcelo J. Monteiro (Instituto de Química, Universidade de São Paulo, São Paulo, Brazil), Fernanda F. C . Bazito, Mauro C. C. Ribeiro, Leonardo J. A. Siqueira, Roberto M. Torresi

Molecular Dynamics Simulation as a Tool for Understanding Li^+ Conductivity in an Ionic Liquid

s05-P-077

Francisco Montilla (Instituto Universitario de Materiales de Alicante. Universidad de Alicante., Alicante, Spain), María de los Ángeles Cotarelo, Emilia Morallón

Electrochemical Synthesis of Sol-gel Silica-Polyaniline Hybrids Materials. Charge Storage Applications.

s05-P-078

Eduardo Muñoz (Pontificia Universidad Católica de Valparaíso, Valparaíso, Chile)

Electrodeposition and Electroless Processes of Rhenium onto p-Si(100). Behaviour of the Hydrogen Evolution Reaction in p-Si/Re/0.1 M H_2SO_4 Interfaces.

s05-P-079

Fabio Muscolino (Dipartimento di Chimica, Materiali ed Ingegneria Chimica, Politecnico di Milano, Milan, Italy), Elza Bontempi, Oberto Citterio, Luca Magagnin, Cavallotti Pietro Luigi, Raffaella Rognoni, Vittorio Sirtori

Oxide electrochemical growth on ultra-flat Ni-P in alkaline solution

s05-P-080

Alexander Nekrasov (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry of the Russian Academy of Sciences, Moscow, Russian Federation), Oxana Gribkova, Viktor Ivanov, Anatoly Vannikov

Multifunctional Electrochemical Coatings on the Basis of Interpolymer Complexes of Polyaniline with Polyamidosulfonic Acids: Comparison of Their Operation Characteristics in Possible Applications

s05-P-081

Nebojsa Nikolic (ICTM-Department of Electrochemistry, Belgrade, Serbia), Ljubica Pavlovic, Miomir Pavlovic, Konstantin Popov

Analysis of copper irregular electrodeposits formation by the discussion of the equilibrium's diagram of $CuSO_4$-H_2SO_4-H_2O

s05-P-082

Piotr Ozga (Institute of Metallurgy and Materials Science, Polish Academy of Sciences, Kraków (Cracow), Poland)

The Development of the Stable Citrate Baths for the Electrodeposition of Binary and Ternary Zinc Alloys

s05-P-083

Yasemin Oztekin (Department of Chemistry, Selcuk University, Konya, Turkey), Ersin Guler, Ozcan Kocyigit, Ali Osman Solak, Zafer Yazicigil

The Comparison of Glyoxime Derivatives with Electrochemical Techniques

s05-P-084

Yasemin Oztekin (Department of Chemistry, Selcuk University, Konya, Turkey), Ersin Guler, Ozcan Kocyigit, Ali Osman Solak, Zafer Yazicigil

The Investigations about Electrochemical Behavior of Phenyl Glyoxime on Glassy Carbon Electrode

s05-P-085

Mariana P. Massafera (Chemistry Institute, University of São Paulo, São Paulo, Brazil), Susana I. C. Torresi

Layer-by-Layer Deposition of Urease into Nanostructured Poly(Pyrrole) for Improvement of an Urea Biosensor

s05-P-086

Susana Palmero (Departamento de Química/Universidad de Burgos, Burgos, Spain), Alvaro Colina, Aránzazu Heras, Jesús López-Palacios, Emma Muñoz, Virginia Ruiz

Potential step electrosynthesis of Pt-Polyaniline nanocomposites

s05-P-087

Sonia Patricio (Faculdade de Ciências, da Universidade do Porto, Porto, Portugal), Cristina Freire, Robert Hillman, Cosme Moura

[Ni(salen)crown]-Polyelectrolyte Multilayer Composite Films for Sensing Applications

s05-P-088

Carlos Pereira (CIQ-UP Departamento de Química, Faculdade de Ciências da Universidade do Porto, Porto, Portugal), Carla Arieira, Elisabete Ferreira, Fernando Silva

Electrochemical characterization of gold and silver nanoparticles

s05-P-089

Marta Pérez-Morales (Department of Physical Chemistry and Applied Thermodynamics, Córdoba, Spain), Luis Camacho, Gustavo de Miguel, Maria Teresa Martín-Romero, Eulogia Muñoz

Electrochemical Quantification of Oxygen Adsorbed on Cobalt-porphyrin Electrodeposits

s05-P-090

László Péter (Research Institute for Solid State Physics and Optics, Hung. Acd. Sci., Budapest, Hungary), András Bartók, József Pádár, Enikõ Tóth-Kádár

Electrodeposition of Pd-Cu alloys and nanoporous Pd formation by anodic dealloying

s05-P-091

Salvatore Piazza (Dipartimento di Ingegneria Chimica dei Processi e dei Materiali, Università di Palermo, Palermo, Italy), Rosalinda Inguanta, Carmelo Sunseri

Electrodeposition of lead dioxide nanowires with a high aspect ratio

s05-P-092

Jeanette Rebello (Department of Chemistry and Food Chemistry, Dresden, Germany), U. Guth, V.V. Vashook

Investigation of the Electrochemical Behaviour of Some Perovskite Materials in Aqueous Solution

s05-P-093

Christina Roth (TU Darmstadt Materials Science, Darmstadt, Germany), Virginie Croze, Frank Ettingshausen, Marc Michel, David Ramaker

Operando study of PEMFC cathode by time-resolved XAS

s05-P-094

Pavel Ruvinsky (LMSPC-UMR 7515 du CNRS-ULP-ECPM, Strasbourg, France), Matthieu Houlle, Cuong Pham-Huu, Elena Savinova

Aligned Carbon Nanotubes on TiOx Substrates for Fuel Cell Applications

s05-P-095

Lotfali Saghatforoush (Chemistry, Khoy, Iran (Islamic Republic of))

Synthesis and Electrochemical Studies on a Three New Schiff-Base Cobalt(II) Copmplexes

s05-P-096

Daniel Salinas (INIEC - Instituto de Ingeniería Electroquímica y Corrosión, Universidad Nacional del Sur, Bahía Blanca, Argentina), Silvana Garcia, Lorena Meier

Spontaneous Deposition of Sn/Pd on Au(111)

s05-P-097

Daniel Salinas (INIEC - Instituto de Ingeniería Electroquímica y Corrosión, Bahía Blanca, Argentina), Andrea Alvarez

Electrodeposition of Pd/Cu Nanocrystals on Vitreous Carbon Electrodes

s05-P-098

Luis Sánchez (Química Inorgánica, Córdoba, Spain), Manuel Blázquez, Julian Morales, Teresa Pineda, Alfonso J. Viudez

Use of 6-mercaptopurine to obtain tailored size gold nanoparticles. A new approach to obtain enhanced negative electrodes for Li-ion batteries.

s05-P-099

Monica Santamaria (Università di Palermo, Palermo, Italy), Francesco Di Quarto, Francesca Muratore

Synthesis and characterization of zinc hydroxystannate films

s05-P-100

Mauro Santos (Laboratório de Eletroquímica e Materiais Nanoestruturados, Centro de Ciências Naturais e Humanas, Universidade Federal do ABC, Santo André, Brazil), Marcelo Calegaro, Adriane Flausino, João Paulo Ladeia, Robson Oliveira, Luanna Parreira, Daniel Rascio, Rodrigo Souza

Ethanol Electrooxidation Using PtCe/C Electrodes

s05-P-101

Mauro Santos (Laboratório de Eletroquímica e Materiais Nanoestruturados, Centro de Ciências Naturais e Humanas, Universidade Federal do ABC, Santo André, Brazil), Marcelo Calegaro, Robson Oliveira

Ethanol Electrooxidation Using Bi Eletrodeposited on Pt Electrodes

s05-P-102

Luis Santos (University of Paris 7, Paris, France)

In-situ Reduction of Aryldiazonium in Presence of βCD in Aqueous Solution. Electrochemical, SECM and AFM Investigation

s05-P-103

Erika Scavetta (Department of Physical and Inorganic Chemistry, Bologna, Italy), Barbara Ballarin, Lorella Guadagnini, Adriana Mignani, Domenica Tonelli

Thin Films of Co Based Layered Double Hydroxide: Electrodeposition and Electrochemical Characterisation

s05-P-104

Ricardo Schrebler (Pontificia Universidad Católica de Valparaíso, Valparaíso, Chile)

Effects of Co (II) and Mg (II) species on semiconducting and photoelectrochemical behavior of hematite (α-Fe_2O_3) synthesized electrochemically.

s05-P-105

M. Manuela Silva (Quimica, Universidade do Minho, Braga, Portugal), P. C. Barbosa, V. de Zea Bermudez, M. Fernandes, A. Gonzalves, L. C. Rodrigues, M. J. Smith

Fascinating Materials for Electrochromic Devices

s05-P-106

Mariana Sima (National Institute of Materials Physics, Bucharest-Magurele, Romania), Ionut Enculescu, Marian Sima, Eugeniu Vasile, Teodor Visan

Anodic oxidation of nano and microwire arrays of Zn-Mn alloy

s05-P-107

Marian Sima (National Institute of Materials Physics, Bucharest-Magurele, Romania), Ionut Enculescu, Maria Nicoleta Grecu, Mariana Sima, Eugeniu Vasile

Cathodic electrodeposition of ZnO:Mn nanotube arrays

s05-P-108

Sotirios Sotiropoulos (Chemistry Department, Aristotle University of Thessaloniki, Greece, Thessaloniki, Greece), Stephan Armyanov, Jenia Georgieva, Nikos Phillipides, Ioannis Poulios, Eugenia Valova

Photoelectrocatalytic activity of electrosynthesised tungsten trioxide-titanium dioxide bi-layer coatings for organics photooxidation

s05-P-109

Seema Sudhakaran Pillai (Chemical & Pharmaceutical Sciences, Kingston Upon Thames, United Kingdom), Peter Foot

Conducting Polymer-Lanthanide Composites For Luminescent Devices

s05-P-110

Shi-Gang Sun (Chemistry Department, Xiamen University, Xiamen, China), Qing-Song Chen, Yan-Xin Chen, Zhi-You Zhou

CoPt Nanoparticles and their catalytic properties towards CO and methanol electrooxidation

s05-P-111

Fredrik Sundfors (Åbo Akademi University, Laboratory of Analytical Chemistry, Turku/Åbo, Finland), Henrik Gustafsson, Ari Ivaska, Carita Kvarnström

Electrochemical Impedance Spectroscopy Study of Electropolymerized Poly(3,4-ethylenedioxythiophene) Films on Aluminum Disk Electrodes

s05-P-112

Diouldé Sylla (Electrodep. Dept. Quimica Fisica, Barcelona, Spain), Carlos Müller, J. A. Ortega, Maria Sarret

Anodisation of Ti and Ti-alloys

s05-P-113

Agata Tarajko-Wazny (Dept. of Chemistry, Warsaw University, Warsaw, Poland), Magdalena Skompska

Synthesis and characterization of poly(1,8-diaminocarbazole)

s05-P-114

Mihaela Tertis (Faculty of Chemsitry and Chemical Engineering, Associated Francophone Laboratory,/ Babes-Bolyai University, Cluj-Napoca, Romania), Cecilia Cristea, Maria Jitaru

New Modified Nanostructured Electrodes For Aromatic Hydroxi Acids Oxidation

s05-P-115

Eva Tesarova (Department of Analytical Chemistry / University of Pardubice, Pardubice, Czech Republic), Lucie Baldrianova, Samo B. Hocevar, Bozidar Ogorevc, Ivan Svancara, Karel Vytras

Antimony Film-Plated Carbon Paste Electrode for Voltammetric Determination of Trace Heavy Metals

s05-P-116

Elli Theodoridou (Institute of Physical Chemistry, Thessaloniki, Greece), Marina Arnaudova, Georgy Avdeev, Mario Mitov, Andreas Zielonka

Production and Characterization of Ni-Mo-W Layers on Carbon Fiber Supports

s05-P-117

Etsushi Tsuji (Division of Chemistry, Graduate School of Engineering Science, Osaka University, Osaka, Japan), Akihito Imanishi, Yoshihiro Nakato

Work Function of Nano-structured TiO_2 (rutile) Surface Studied by a Scanning Auger Microprobe

s05-P-118

Ilia Valov (Institute of Physical Chemistry, Justus-Liebig University, Giessen, Germany), Desisslava Guergova, Plamen Stefanov, Ilia Valov

Kinetics of Cathodic Electrodeposition of Rare-Earth and Refractory Metal Oxides From Non-Aqueous Electrolytes

s05-P-119

Teodor Visan (Dept. of Applied Physical Chemistry and Electrochemistry, Univ. Politehnica Bucharest, Romania, Bucharest, Romania), Anca Cojocaru, Adrian Cristian Manea, Marin Nedelcu, George Stanciu

Investigation of Zn, Co, and Sb Deposition from Ethylene Glycol Bath for the Use in ZnSb and CoSb Thermoelectric Films Preparation

s05-P-120

Josef Wendrinsky (ECHEM Centre of Competence in Applied Electrochemistry, Wiener Neustadt, Austria), Norica Godja, Nikolett Kiss, Christine Löcker, Gerhard E. Nauer, Andreas Schindel

Pretreatment of Light Weight Metal Alloys

s05-P-121

Josef Wendrinsky (ECHEM Centre of Competence in Applied Electrochemistry, Wiener Neustadt, Austria), Norica Godja, Nikolett Kiss, Christine Löcker, Gerhard E. Nauer, Andreas Schindel

Spark Discharge Anodization as a Pretreament Method for Corrosion-protection, Bonding and Coating Processes

s05-P-122

Caterina Zanella (Department of Materials Engineering and Industrial Technologies, University of Trento, Trento, Italy), Pier Luigi Bonora, Alex Lanzutti, Maria Lekka, Claudio Valbusa

Low-power ultrasound treatment during electrodeposition of nanoSiC-nickel composite coatings

s05-P-123

Krzysztof Stolarczyk (Faculty of Chemistry, Warsaw University, Warsaw, Poland), Jan F. Biernat, Renata Bilewicz, Karolina Madrak, Jerzy Rogalski, Kamila Sadowska

Reduction of Oxygen Catalyzed by Laccase Using Carbon Nanotubes Modified with Anthraquinone

s05-P-124

Saravanakumar Duraisamy (Dept. of Chemistry, Sogang University, Seoul, Korea, Republic of), Junnghyun Lee, Rajaram Krishna Nagarale

Synthesis of Copper-Incorporated Polymer Composite and its Application to Oxygen Reduction

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications

s06-P-001

Elena Madalina Aldea (University Politehnica Bucharest, Bucharest, Romania), Maria Magdalena Ducu, Mariana Prodana

Correlation between morphology features of TiO_2 MOCVD deposition on implant bioalloys and their electrochemical behavior in artificial saliva

s06-P-002

Idalina Aoki (Departamento de Engenharia Quimica, São Paulo, Brazil), Hercílio De Melo, Jean Ferrari, Cristiane Martins

Sol-gel Derived Hybrid Coatings Based on Amine-cured Epoxy for Protection Against Corrosion of Al Alloy 2024-T3

s06-P-003

Niloufar Bahrami Panah (Department of Chemistry, Faculty of Science, Payame Noor University, Tehran, Iran (Islamic Republic of))

Study of Anticorrosive Performance of Polypyrrole/polyaniline Bilayer as a Primer in Paint Systems via Electrochemical Techniques

s06-P-004

Niloufar Bahrami Panah (Department of Chemistry, Faculty of Science, Payame Noor University, Tehran, Iran (Islamic Republic of)), Mohammad Ghasem Mahjani

Study of Anticorrosive Properties of Polyaniline Pigmented Epoxy Coatings

s06-P-005

Jelena Bajat (Faculty of Technology and Metallurgy, Department of Physical Chemistry and Electrochemistry, Belgrade, Serbia), Zorica Kacarevic-Popovic, Vesna Miskovic-Stankovic

Corrosion Stability of Epoxy Coatings on Aluminium Pretreated by Vinyltriethoxysilane

s06-P-006

Dimitar Borissov (Max-Planck-Institute for Iron Research, Düsseldorf, Germany), Frank Renner, Michael Rohwerder

Zn-Mg-Al Alloy Electrodeposition from Ionic Liquids

s06-P-007

Christopher Brett (Departamento de Química, Universidade de Coimbra, Coimbra, Portugal)

Influence of mucin on the corrosion mechanism of dental amalgams in artificial saliva

s06-P-008

Laura Burgos (Applied Phisical Chemistry, Madrid, Spain), Concepción Alonso, María Lorenzo Escudero, Cristina García Alonso

Microelectrochemical study of corrosion phenomena and osteoblast adhesion kinetics on Ti/TiO2 surface

s06-P-009

Maria Carmezim (EST Setúbal, Instituto Politécnico de Setúbal, Setúbal, Portugal), João Fernandes, Mario Ferreira, Nadia Figueira, Teresa Silva

Surface modification of Nitinol: an electrochemical study under simulated physiological conditions

s06-P-010

Ana Laura Correa (Facultad de Ciencias, Universidad Autonoma de Madrid, Madrid, Spain)

Polypyrrole and silane compounds on aluminium 2024 for corrosion protection

s06-P-011

José M. Costa (Department of Physical Chemistry, University of Barcelona, Barcelona, Spain)

The Contribution of Electrochemistry to the Development of Corrosion Science

s06-P-012

Alexei Davydov (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russian Federation), Luiza Beketaeva, Konstantin Rybalka, Vyacheslav Shaldaev

Development of corrosion pits on 20Kh13 steel

s06-P-013

Hercilio Gomes de Melo (Polytechnic School of the University of Sao Paulo, Sao Paulo, Brazil), Idalina V. Aoki, M.F. Montemor, Luis M. Palomino, Patricia H. Suegama

Investigation of the anticorrosion performance of modified and unmodified silane layers on Al 2024-T3 alloy

s06-P-014

Hercilio Gomes de Melo (Chemical Engineering Department of the Polytechnic School of the São Paulo University, São Paulo, Brazil), Idalina Vieira Aoki, Rocio Hernandez Bendezu, Hercilio Gomes de Melo, Marina Martins Mennucci

EIS investigation of the corrosion behavior of pure copper in chloride solution under thin layer electrolytes.

s06-P-015

Rodrigo de Santis Neves (Institute of Chemistry of São Carlos, São Carlos, Brazil), Artur de Jesus Motheo

Electrochemical study of aluminium alloys modified with octadecyltrimetoxysilane self assembled monolayers

s06-P-016

Andreas Dubbe ((Temporarely no Affiliation), Bayreuth, Germany)

Electrochemical impedance of Na-ZSM-5/Cr_2O_3 interfaces in relation to hydrocarbon gas sensor applications

s06-P-017

David Duday (Département de Science et Analyse des Matériaux -Centre de Recherche Public Gabriel Lippmann, Belvaux, Luxembourg), Chems-Eddine Barchiche, Juliano N. Borges, Patrick Choquet, Emmanuel Rocca

Corrosion resistance of atmospheric plasma treated copper with two different precursors hexamethyldisilazane and hexamethyldisiloxane and effect of bilayer films

s06-P-018

David Duday (Département de Science et Analyse des Matériaux, Centre de Recherche Public Gabriel Lippmann, Belvaux, Luxembourg), Chems-Eddine Barchiche, Patrick Choquet, Henri-Noël Migeon, Emmanuel Rocca

Corrosion resistance of galvanised steel treated by carboxylatation and/or atmospheric plasma

s06-P-019

David Duday (Département de Science et Analyse des Matériaux, Centre de Recherche Public Gabriel Lippmann, Belvaux, Luxembourg), Chems-Eddine Barchiche, Patrick Choquet, Brahime El-Adib, Jérome Guillot, Emmanuel Rocca

Corrosion resistance and galvanic coupling with tin of FeCoNi alloy treated by atmospheric plasma or by carboxylatation

s06-P-020

Inês Fonseca (CCMM, Departamento de Química e Bioquímica, Lisboa, Portugal), R. Figueira, E. Pereira, M. Salta

Galvanic sensors for monitoring the corrosion in solutions simulating concrete conditions in aggressive environment

s06-P-021

Cecilio Sadao Fugivara (Fisico-Quimica, Instituto de Quimica-UNESP, Araraquara, Brazil), Assis Vicente Benedetti, Monica Sumie Okuda, Paloma Cardoso da Rosa, Monica Freitas da Silva

Study of the efficiency of VCI to protect Galvannealed against corrosion

s06-P-022

José García-Antón (Dept. Ingeniería Química y NuclearUniversidad Politécnica de Valencia, Valencia, Spain), Rafael Leiva, Maria José Muñoz-Portero

Variations in the pitting potential of sensitized Alloy 900 in aqueous lithium bromide concentrated solutions.

s06-P-023

José García-Antón (Dept. Ingeniería Química y Nuclear, Universidad Politécnica de Valencia, Valencia, Spain), Encarnación Blasco-Tamarit, Dionisio García-García

Effect of solution temperature on pitting corrosion of high-alloyed austenitic stainless steel weldments in aqueous LiBr solutions

s06-P-024

Sergio González (Department of Physical Chemistry, La Laguna (Tenerife), Spain), Ricardo M. Souto

Examination of organic coatings on metallic substrates by scanning electrochemical microscopy using oxygen as redox mediator

s06-P-025

Jérôme Gravier (CEA, Is-sur-Tille, France), Stéphanie Bissey-Breton, José Farré, Vincent Vignal

Long time ageing of machined surfaces in salt fog atmosphere at room temperature.

s06-P-026

Jérôme Gravier (CEA, Is-sur-Tille, France), Stéphanie Bissey-Breton, José Farré, Vincent Vignal

Assessing the micro-electrochemical behaviour of machined surfaces using linear regression and Pearson's correlation matrix.

s06-P-027

Virginia Guiñón Pina (Dept. Ingeniería Química y Nuclear, Universidad Politécnica de Valencia, Valencia, Spain), Anna Igual Muñoz

Influence of hydrogen discharge and temperature on the passivity of Nickel in LiBr solutions by means of Electrochemical Impedance Spectroscopy

s06-P-028

Suzanne Joiret (LISE- UPR 15 du CNRS, Paris, France), Marie-Claude Bernard, Vincent Vivier

Reduction of rust layer on iron artifact investigated by Raman spectroscopy in a cavity ultramicroelectrode

s06-P-029

Vladimir Jovic (Institute for Multidisciplinary Research, Belgrade, Yugoslavia)

The influence of the conditions of the ZrO_2 passive film formation on its properties in 1M NaOH

s06-P-030

Zelin Li (Department of Chemistry, Hunan Normal University, Changsha, China), Shu Chen, Youping Chu, Jufang Zheng

Classical Dealloying and Novel Quasi-dealloying in the Electrooxidation of Au-Sn Alloys

s06-P-031

Jadranka Malina (Faculty of Metallurgy, University of Zagreb, Sisak, Croatia), Marijan Malina

Permeation Properties of Hydrogen Trapped in TRIP Steel

s06-P-032

Iljana Miethe (Physik Department, Technische Universität München, Garching, Germany), Claudio Fontanesi, Matteo Frigieri, Katharina Krischer

Ellipsomicroscopic imaging of the electrodissolution of Si

s06-P-033

Ingrid Milošev (Jožef Stefan Institute, Department of Physical and Organic Chemistry, Ljubljana, Slovenia), Edita Blazevic

Electrochemical and XPS study of Ni-based dental alloys in artificial saliva

s06-P-034

Vesna Miskovic-Stankovic (Department of Physical Chemistry and Electrochemistry, Faculty of Technology and Metallurgy, University of Belgrade, Belgrade, Serbia), Jelena Bajat, Zeljka Jovanovic

The Comparative Study of Silane Films on Aluminum: Electrochemical and Adhesion Characteristics

s06-P-035

Liana Maria Muresan ("Babes-Bolyai University", Department of Physical Chemistry, Cluj-Napoca, Romania), Caius Bulea, Simona Varvara, Adriana Vlasa

Zn-TiO_2 nanocomposite coatings with improved corrosion behavior obtained by electrolytic codeposition

s06-P-036

Nathalie Ochoa (Departamento de Ciencia de los Materiales, Universidad Simon Bolivar, Caracas, Venezuela)

Influence of flow on the formation of inhibitive films

s06-P-037

Kevin Ogle (Laboratoire Physicochimie des Surfaces, CNRS, Paris, France), Christian Allely, Hanane Bouazaze, Moussa Naby Yattara

Direct Measurement of the Chemical Stability of the Zn/ZnO/Polymer Interface

s06-P-038

Helena Otmacic Curkovic (Faculty of Chemical Engineering and Technology, Zagreb, Croatia), Katarina Marusic, Ema Stupnisek-Lisac, Hisasi Takenouti

EIS Study of Copper Corrosion Inhibition on RDE

s06-P-039

Maritza Paez (Departamento de Quimica de los Materiales, Facultad de Química y Biología, Universidad de Santiago de Chile, Santiago, Chile), Jorge Pavez, Fabiola Pineda, Franco Rabagliati, Mamie Sancy, George Thompson, Esteban Vargas, Jose Zagal

Sol-gel zirconia coating modified by Al_2O_3 nanoparticles for protection of AA-2024 in chloride media

s06-P-040

Maritza Paez (Departamento de Química de los Materiales, Facultad de Química y Biología, Universidad de Santiago de Chile, Santiago, Chile), Jorge Pavez, Fabiola Pineda, Franco Rabagliati, Mamie Sancy, George Thompson, Esteban Vargas, Jose Zagal

Sol-gel zirconia coating modified by α-Fe_2O_3 nanoparticles for protection of stainless steel in chloride media

s06-P-041

Mariano J. Pérez (Department of Physical Chemistry, La Laguna (Tenerife), Spain), G. Timothy Burstein, Ricardo M. Souto

Electrochemical processing of stainless steel surfaces in metasilicate solution for improved corrosion resistance

s06-P-042

Ricardo Pinto (ICEMS Instituto Superior Tecnico, Lisboa, Portugal), Maria Carmezim, Mario Ferreira, Fatima Montemor

Corrosion Behaviour of Magnesium Alloys and The Influence of Rare Earths as Alloying Elements

s06-P-043

Cristian Pirvu (University Politehnica Bucharest, Bucharest, Romania), Ioana Demetrescu, Mihaela Mindroiu, Simona Popescu

Electrochemical Synthesis and Characterization of Corrosion Protective Coatings for Zinc-Coated Steel Surfaces

s06-P-044

Marcin Pisarek (Polish Academy of Sciences, Institute of Physical Chemistry, Warsaw, Poland), Maria Janik-Czachor, Piotr Kodzierzawski, Krzysztof J. Kurzydlowski

Electrochemical, Microscopic, and Surface Analytical Investigations of Hydrostatically Extruded Austenitic Stainless Steels

s06-P-045

Nebojsa Potkonjak (Institute of General and Physical Chemistry, Belgrade, Serbia), Slobodan Anic, Stevan Blagojevic, Tanja Potkonjak, Danijela Randjelovic

Application of AFM in Better Understanding of Electrochemical Current Oscillations - Case Study of Cu / 0.5 M TFA Oscillator

s06-P-046

Ursula Rammelt (Excor Korrosionsforschung GmbH, Dresden, Germany), Silvio Koehler, Georg Reinhard

Use of Vapor-phase Corrosion Inhibitors (VCIs) in Packages for Protecting Mild Steel against Corrosion

s06-P-047

Emmanuel Rocca (Universite Henri Poincare Nancy 1 Laboratoire de Chimie du Solide Mineral, Vandoeuvre les Nancy, France), Chems-Eddine Barchiche

Plasma electrolytic oxidation of AZ91D alloy: Effect of phosphate ions in electrolyte on microstructure and corrosion

s06-P-048

Emmanuel Rocca (Universite Henri Poincare Nancy 1, Laboratoire de Chimie du Solide Mineral, 54506, France), Chems-Eddine Barchiche

Role of KF on the plasma electrolytic anodization on magnesium: corrosion resistance of anodized AZ91D alloy in KOH-based electrolyte

s06-P-049

Monika Santa (Interface Chemistry and Surface Engineering, Max-Planck-Institut fuer Eisenforschung, Duesseldorf, Germany), Guido Grundmeier, Ralf Posner

Surface Enhanced Raman Spectroscopy and Scanning Kelvin Probe Studies of Corrosive De-adhesion at Polymer-Metal Interfaces

s06-P-050

Ana Isabel Santana (Federal University of Rio de Janeiro, Rio de Janeiro, Brazil), Oswaldo Barcia, Susana Díaz, Oscar Mattos

The Influence of Solution pH on the Anomalous Electrodeposition of NiFe Alloys in Sulfate Electrolytes

s06-P-051

Dimitra Sazou (Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece), Michael Pagitsas, Maria Pavlidou

Iodide Effects on Fe Passivity: Localized Corrosion, Iodide Electro-oxidation, Phase Transitions and Oscillatory States

s06-P-052

Dimitra Sazou (Department of Chemistry,Aristotle University of Thessaloniki, Thessaloniki, Greece), Marianna Kourouzidou, Dimitra Sazou

Dynamical Response of the Fe|HNO_3 Electrochemical System as a Function of the Potential and Concentration of HNO_3

s06-P-053

Ricardo M. Souto (Department of Physical Chemistry, La Laguna (Tenerife), Spain), Sergio González, Yaiza González-García

Imaging the early stages of coating breakdown in corrosive environments

s06-P-054

Priscila Tamiasso-Martinhon (UPR15-CNRS, Laboratoire Interfaces et Systèmes Electrochimiques, University Pierre et Marie Curie, Paris, France), Claude Deslouis, Claude Gabrielli

Amorphous Carbon Nitride (a-CNx) Films as Corrosion Protection Barriers for Steels

s06-P-055

Hiroaki Tsuchiya (Division of Materials and Manufacturing Science, Graduate School of Engineering, Osaka University, Osaka, Japan)

Fabrication and characterization of structural and functional anodic oxide layers

s06-P-056

Lidija Valek (Faculty of Chemical Engineering and Technology, Zagreb, Croatia), Sanja Martinez, Marijana Serdar

Investigation of Ascorbic Acid Influence on Steel Passivity in Sat. $Ca(OH)_2$

s06-P-057

Carlos Valero Vidal (Dept. Ingeniería Química y Nuclear, Universidad Politécnica de Valencia, Valencia, Spain)

Influence of potential on the electrochemical behaviour of CoCrMo alloy in simulated body fluids by Electrochemical Impedance Spectroscopy (EIS)

s06-P-058

Jean-Francois Vanhumbeeck (Division of Materials and Process Engineering/Université Catholique de Louvain, Louvain-la-Neuve, Belgium), Joris Proost

Influence of the applied current density on the growth stress evolution in anodic TiO_2 films

s06-P-059

Idalina Vieira Aoki (Departamento de Engenharia Química/Escola Politécnica da Universidade de São Paulo, São Paulo, Brazil), Isabella Pacifico Aquino

Comparison of Acidic Rinsing Purification Methods Concerning Biodiesel Corrosiveness to Five Different Metals of the Fuel Circuit in Automobile Motors

s06-P-060

Jorge O. Zerbino (Instituto de Fisicoquímica, INIFTA, La Plata, Argentina), Maria G. Sustersic, Rosa M. Torres Sanchez

Enhanced roughness of copper after reduction of cuprous oxide films grown in oxalate-containing aqueous solution

s06-P-061

Monica Santamaria (Università di Palermo, Palermo, Italy), Francesco Di Quarto, Francesca Muratore

Growth and characterization of anodic films on Sc in aqueous solutions

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes

s07-P-001

Tim Aerts (Vrije Universiteit Brussels, Department Materials and Chemistry, Brussels, Belgium), Iris De Graeve, Johan Deconinck, Erik Dick, Slawomir Kubacki, Gert Nelissen, Herman Terryn

Temperature and heat transfer during an electrochemical process: A novel approach in studying influence of temperature on anodizing of aluminium.

s07-P-002

Liana Anicai (Div.of Ecological Technologies Development, Petromservice SA, Bucharest, Romania), Andreea Florea, Roxana Dumitrache, Mihai Dutu, Teodor Visan

Synthesis and Electrochemical Characterization of Some Ionic Liquids Containing V and Mo Compounds

s07-P-003

Nizar Aouina (LISE-UPR15 CNRS,UPMC, Paris, France), Hubert Cachet, Catherine Debiemme-Chouvy, Claude Deslouis, Thi Tuyet Mai Tran

Electrocatalytic reduction of nitrate on copper electrode

s07-P-004

Olga Babushkina (ECHEM Center of Competence in Applied Electrochemistry, Wiener Neustadt, Austria), Silvia Ekres, Eugenia Lomako, Gerhard Nauer

Electrochemistry of Niobium(V) in Ionic Liquids

s07-P-005

J. Benavente (Dep. de Física Aplicada I, Facultad de Ciencias, Univ. de Málaga, Málaga, Spain), I. M. Coelhoso, J. Crespo, R. Fortunato, L. Neves, M. I. Vázquez

Effect of water content on C_8MIMPF_6 RTIL electrical resistance: time evolution

s07-P-006

J. Benavente (Dep. de Física Aplicada I, Facultad de Ciencias, Univ. de Málaga, Málaga, Spain), S. Bijani, I.M. Coelhoso, J. Crespo, L. Neves, Martinez Yuso

Electrochemical characterization of modified Nafion-H^+ membranes by incorporation of a room temperature ionic liquid cation

s07-P-007

Raul Berenguer (Departamento de Química Física e Instituto Universitario de Materiales de Alicante, Alicante, Spain), Emilia Morallón, César Quijada

Preparation and characterization of SnO_2 electrodes doped with Ru and Pt

s07-P-008

Isarain Chavez (Departament de Quimica Fisica/Universitat de Barcelona, Barcelona, Spain), Conchita Arias, Enric Brillas, Pere L. Cabot, Francesc Centellas, Jose A. Garrido, Rosa M. Rodriguez

Removal of the ß-blocker drug atenolol by electro-Fenton and photoelectro-Fenton processes

s07-P-009

Lurdes Ciríaco (Department of Chemistry, University of Beira Interior, Covilhã, Portugal), Carlos Anjo, Ana Lopes, Maria José Pacheco

Electrodegradation of Clofibric Acid with BDD and Ti/Pt/PbO_2 Anodes

s07-P-010

Alexei Davydov (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russian Federation), Vladimir Volgin

Effect of centrifugal and Coriolis forces on mass transfer in rotating cylindrical annulus with vertical electrodes

s07-P-011

Ana Isabel del Río (Departamento de Ingeniería Textil y Papelera/Escuela Politécnica Superior de Alcoy (UPV), Alcoy (Alicante), Spain), Mª José Benimeli, José Bonastre, Francisco Cases, Javier Molina

Study about the electrochemical behaviour of mono- and bifunctional reactive dyes in simulated textile wastewaters

s07-P-012

Metehan Erdogan (Department of Metallurgical and Materials Engineering / Middle East Technical University., Ankara, Turkey), Ishak Karakaya

Tungsten Production by Electrodeoxidation

s07-P-013

Miroslav Gal (J. Heyrovsky Institute of Physical Chemistry of ASCR, v.v.i., Prague, Czech Republic), Michaela Benova, Jan Hives, Dalibor Uher

Transfer of Charge through the Stirred Heterogeneous System: EIS Study

s07-P-014

Luciano Gomes (Instituto de Química de São Carlos / Universidade de São Paulo, São Carlos, Brazil), Geoffroy Roger Pointer Malpass, Douglas Waychi Miwa, Artur de Jesus Motheo

Electrochemical degradation of Reactive Orange 16 using two different electrode materials

s07-P-015

Elena Guinea (Departament de Quimica Fisica/Universitat de Barcelona, Barcelona, Spain), Conchita Arias, Enric Brillas, Pere L. Cabot, Francesc Centellas, Jose A. Garrido, Rosa M. Rodriguez

Fe(III) and Sunlight Effects on the Anodic Oxidation of Carboxylic Acids with a Boron Doped Diamond Anode

s07-P-016

Remigijus Juskenas (Institute of Chemistry, Vilnius, Lithuania)

Phase Composition of Heat-Treated Ni-W Coatings

s07-P-017

Man Kim (Department of Surface Technology, Korea Institute of Materials Science, Changwon, Korea), Sik-Chol Kwon, Joo-Yul Lee

Optimization of Chromium Electroplating Parameters by Current Density Distribution Modeling

s07-P-018

Bahadir K. Körbahti (University of Mersin, Mersin, Turkey)

Anodic Oxidation of Oil/Water Emulsions using Pt/Ir Electrodes

s07-P-019

Engracia Lacasa (Chemical Engineering Department, University of Castilla la Mancha, Ciudad Real, Spain), Pablo Cañizares, Engracia Lacasa, Rubén López-Vizcaíno, Manuel Andres Rodrigo, Cristina Sáez

Electrochemical Oxidation for the Tertiary Treatment of Urban Wastewaters

s07-P-020

Joo-Yul Lee (Department of Surface Technology, Korea Institute of Materials Science, Changwon, Korea), Man Kim, Hye-Jin Park

The Effect of Additives on the Copper Electroplating with Pulse and Reverse Pulse

s07-P-021

Ezequiel Pedro Marcos Leiva (Unidad de Matemática y Físca, Facultad de Ciencias Químicas, Universidad Nacional de Córdoba, Córdoba, Argentina), Marcelo Mario Mariscal, Mariana Isabel Rojas

Computer simulation of the effective double layer presents at the catalytic surface under electrochemical promotion conditions

s07-P-022

V. Montiel (Instituto Universitario de Electroquímica, Universidad de Alicante, Alicante, Spain), A. Aldaz, E. Expósito, J.M. Ortiz, D. Valero

Electrocoagulation of a synthetic textile effluent powered by photovoltaic energy without batteries: direct connection behaviour

s07-P-023

V. Montiel (Instituto Universitario de Electroquímica, Universidad de Alicante, Alicante, Spain), F. Bosch, E. Expósito, V. García-García, A. Jimenez, A. Pérez, A. Saez, A. Valero

Electrochemical treatment of galvanic effluents: a realistic approach between basic research and industrial behaviour

s07-P-024

Antonio Angel Moya (Departamento de Física, Universidad de Jaén, Jaén, Spain), José Alberto Moleón

Application of the Network Simulation Method to the Study of the Intensification of Electrodialysis

s07-P-025

Jose Luis Olloqui-Sariego (Dpto. Química Física, Facultad de Química, Universidad de Sevilla, Sevilla, Spain), Manuel M. Dominguez, Domingo Gonzalez-Arjona, Victor M. Molina, Emilio Roldan

Voltammetric and Electrolytic Study of Carbon Tetrachloride Electrochemical Carboxylation

s07-P-026

Emma Ortega (Dpt. Ingeniería Química y Nuclear, Universidad Politécnica de Valencia, Valencia, Spain), Isaac Herraiz-Cardona, Valentin Perez-Herranz

Effect of concentration, pH and boric acid on the zinc transport properties through a cation-exchange membrane

s07-P-027

Juan M. Ortiz (Departamento de Química Física, Instituto Universitario de Electroquímica, Universidad de Alicante., Alicante, Spain), Antonio Aldaz, Eduardo Expósito, Francisco Gallud, Vicente García-García, Vicente Montiel

Solar photovoltaic electrodialysis for brackish groundwater desalination

s07-P-028

Vladimir Panic (ICTM - Center for Electrochemistry, Belgrade, Serbia), Vesna B. Miskovic Stankovic, Branislav Nikolic

Ternary RuO_2–TiO_2–IrO_2 Coatings on Titanium Prepared from Inorganic Oxide Sols

s07-P-029

Pier Parpot (Department of Chemistry, University of Minho, Braga, Portugal), Ana Paula Bettencourt, Venceslau Muiuane

Oxidation of mono and disaccharides in FM01-LC flow cell in alkaline medium

s07-P-030

Alejandro Peraza (Electrochemistry department, Centro de Investigación y Desarrollo Tecnológico en Electroquímica S.C., Pedro Escobedo, Mexico), Thomas Chapman, Yunny Meas, Luis Ortiz

Quantitative Phase Analysis of Electrochemical Deposits of Calcium Carbonate by the Rietveld Method

s07-P-031

Aurora Petica (INCDIE ICPE-Advanced Research, Bucharest,, Romania), Liana Anicai, Roxana Dumitrache, Andreea Florea

Some Aspects Regarding Silver Electrodeposition From Choline Chloride Based Ionic Liquids

s07-P-032

Anna Maria Polcaro (Dipartimento di Ingegneria Chimica e Materiali, Cagliari, Italy)

Removal of organic compounds by electrochemical and photo assisted electrochemical processes: a kinetic study.

s07-P-033

Alejandro Recéndiz (Departamento de Química. Universidad Autónoma Metropolitana-Iztapalapa, México, D.F., Mexico), Ricardo Benavides, Adolfo Fuentes, Ignacio González, José Luis Nava

Formation and Electrochemical Behavior of MnO_2 Anodically Formed During the Zinc Electrowinning Process

s07-P-034

Iranildes Santos (Metallurgical and Materials Engineering/COPPE/UFRJ, Rio de Janeiro, Brazil), Júlio Afonso, Achilles Dutra

The Influence of Calcination Temperature of a Ti/Sno2-Sb Electrode Manufactured by Pechini's Method on Phenol Electroxidation

s07-P-035

Rakesh Tyagi (Ionic Liquids, Wiener Neustadt, Austria), Gerhard E. Nauer

Applications of Imidazolium based Ionic liquids as electrolytes in electrodeposition processes

s07-P-036

Rakesh Tyagi (Ionic Liquids, Wiener Neustadt, Austria), Gerhard E. Nauer

Electrodeposition of chromium through choline chloride based ionic liquid

s07-P-037

Teodor Visan (Department of Applied Physical Chemistry and Electrochemistry, University Politehnica Bucharest, Bucharest, Romania), Liana Anicai, Anca Cojocaru, Stefania Costovici, Stefan Stanciu

Electrochemical Studies of Cathodic Processes During Ni-Sn Alloy Preparation Using Choline Chloride Based Ionic Liquids

s07-P-038

Vladimir Volgin (Tula State University, Tula, Russian Federation), Alexei Davydov

The effect of magnetic field on stability of combined bulk electroconvection and gravitational convection of binary electrolyte

s07-P-039

Vladimir Volgin (Tula State University, Tula, Russian Federation), Alexei Davydov

Study of onset of natural convection and non-steady-state mass transfer in the electrochemical cell with horizontal electrodes

s07-P-040

Claudia Weidlich (DECHEMA e.V., Frankfurt, Germany)

Prevention of Biofouling on Membranes by Conducting Polymer Layers

s07-P-041

José Luís Xavier (Universidade Federal do Rio Grande do Sul, Escola de Engenharia/Departamento de MateriaisLACOR - Laboratório de Corrosão, Proteção e Reciclagem de Materiais, Porto Alegre, Brazil), Andrea Moura Bernardes, Jane Zoppas Ferreira, Marco Antonio Rodrigues

Use of the photo electro oxidation technique in the post-treatment of tannery effluents

s07-P-042

Yusuf Yavuz (Dept. of Environmental Engineering, Eskisehir, Turkey)

Treatment of Alcohol Distillery Wastewater by Electrofenton Method

s07-P-043

Yusuf Yavuz (Dept. of Environmental Engineering, Eskisehir, Turkey)

Electrochemical Degradation for Toxicity Reduction in Textile Wastewater

Symposium 8: Electrochemical Energy Conversion and Storage

s08-P-001

Jorge M. Ginja Teixeira (Universidade de Evora - Departamento de Quimica & Centro de Quimica de Evora, Evora, Portugal), Inês Almeida, Peter Carrott, M. Manuela Ribeiro Carrott, João Valente Nabais

Development of electrodes with nanostructured porosity and controlled chemical properties to be used as electrochemical capacitors

s08-P-002

Francisco Alcaide (CIDETEC-IK4, San Sebastián, Spain), Garbiñe Álvarez, Hans Jürgen Grande, Óscar Miguel

Tailor-made Electrodeposited PtRu Hydrogen Diffusion Anodes for PEMFC

s08-P-003

Nadezda Alexeyeva (Institute of Chemistry, University of Tartu, Tartu, Estonia), Juan M. Feliu, Ana Lopez-Cudero, Jose Solla-Gullón, Kaido Tammeveski

Oxygen reduction on SWCNTs-supported Pt nanoparticles

s08-P-004

Garbiñe Álvarez (CIDETEC-IK4, San Sebatián, Spain), Francisco Alcaide, Pere L. Cabot, Óscar Miguel

PtPd/C as electrocatalyst in thin-film anodes for Proton Exchange Membrane Fuel Cells

s08-P-005

Caballero Alvaro (Quimica Inorganica / Universidad de Cordoba, Cordoba, Spain), Jose Carlos Arrebola, Lourdes Hernan, Julian Morales

High-energy density Li-ion batteries using active nanomaterials

s08-P-006

Luis Alberto Avaca (Instituto de Química de São Carlos,Universidade de São Paulo, São Carlos, Brazil), Marcelo Luiz Calegaro, Milena Elias Teixeira

Sol-gel derived binary and ternary catalysts for ethanol oxidation in fuel cells

s08-P-007

Zahra Barzgari (Department of Chemsitry, University of Birjand, Birjand, Iran (Islamic Republic of))

On the Capacitive Behavior of Nanoparticulate Tungsten Oxide

s08-P-008

Michael Bayer (Electrochemistry Laboratory /Paul Scherrer Institut, Villigen, Switzerland), Günther Scherer, Ingo Schneider, Alexander Wokaun

D Impedance Model For Low Humidity PEFCs

s08-P-009

Sabina Beninati (Dipartimento di Scienza dei Metalli, Elettrochimica e Tecniche Chimiche,University of Bologna, Bologna, Italy), Catia Arbizzani, Libero Damen, Marina Mastragostino

$LiFePO_4$ electrodes for high power batteries

s08-P-010

Seden Beyhan (Faculty of Science and Letters, Chemistry Department, Istanbul, Turkey), Christophe Coutanceau, Figen Kadirgan, Jean Michel Leger

Preparation and Characterization of Ternary Carbon Supported Pt-Sn Based Nanosized Electrocatalysts for Direct Ethanol Fuel Cell

s08-P-011

Martin Bojinov (Department of Physical ChemistryUniversity of Chemical Technology and Metallurgy, Sofia, Bulgaria), V. Koleva, M. Mladenov, R. Stoyanova, E. Zhecheva, P. Zlatilova

Nano-crystalline $LiFePO_4$ cathode materials prepared by a simple phosphate-formate precursor method

s08-P-012

Stein Trygve Briskeby (Department of Materials Science and Engineering, Norwegian University of Science and Technology, Trondheim, Norway), Svein Sunde, Mikhail Tsypkin, Reidar Tunold

Stability and activity of electrocatalysts by rotating ring disk electrode measurements

s08-P-013

Juan Carlos Calderón (Dpto. Química Física/Universidad de La Laguna, La Laguna, Spain), María Jesús Lázaro, Rafael Moliner, Elena Pastor, José Luis Rodríguez

Synthesis and Characterization of PtRu Catalysts Supported on Carbon Nanofibers for PEM Fuel Cells

s08-P-014

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First insights into the mechanism of the Borohydride Oxidation Reaction (BOR) on gold from Electrochemical Impedance Spectroscopy (EIS)

s08-P-015

Min-Ho Choi (Dept. Materials Science and Engineering / Chonnam National University, Gwangju, Korea), Deog-Ryung Kim, Chan-Jin Park

Effects of Electrodeposition Parameters on the Microstructure and Composition of Metallic Co-Ni-P Catalysts for the Generation of H_2 in Alkaline $NaBH_4$ Solution

s08-P-016

Marie-Noëlle Collomb (Département de Chimie Moléculaire, UMR-5250, ICMG FR-2607, CNRS, Université Joseph Fourier, Grenoble Cedex 9, France), Devadoss Amilan Jose, Jérôme Chauvin, Alain Deronzier, Jean Lombard

Electro and photoactivable coordination polymers for energy conversion devices

s08-P-017

Dionisio Furtunato da Silva (IPEN/CNEN-SP, Sao Paulo, Brazil), Marcelo Linardi, Almir Oliveira Neto, Eddy Segura Pino, Estevam Vitorio Spinace

PtRu/C Electrocatalysts Prepared by Co-reduction or by Successive Reduction of Metal Ions using Electron-Beam Irradiation for Methanol Oxidation

s08-P-018

Eveline De Robertis (Combustion and Propulsion Laboratory, National Institute for Space Research, Cachoeira Paulista, Brazil), Demétrio Bastos-Netto

The substrate influence in electrocatalytic properties of catalysts for ethanol oxidation

s08-P-019

Aleksandar Dekanski (IHTM Department of Electrochemistry, Beograd, Serbia), Snezana Gojkovic, Maja Obradovic, Vladimir Panic

Tungsten Carbide: Cyclovoltammetric Characteristics of Differently Structured Powders

s08-P-020

Beata Dembinska (Department of Chemistry, University of Warsaw, Warsaw, Poland), Pawel J. Kulesza, Marta Ratter

Enhancement of Electrocatalytic Oxygen Reduction at Hybrid Film of Cobalt Porphyrin Immobilized within Carbon Nanotube-supported Tungsten Oxide

s08-P-021

Lioudmila Doubova (CNR-IENI, Padua, Italy), Simona Barison, Marino Battagliarin, Stefano Boldrini, Tommaso Cavallin, Monica Fabrizio, Rosalba Gerbasi, Cecilia Mortalò

The Conductivity of $BaCe_{1-x-y}Zr_xYyO_{3-\delta}$ Proton Conductors as Electrolyte For Intermediate Temperature SOFCs

s08-P-022

Nevenka Elezovic (Institute for Multidisciplinary Research, Department for Materials and Energy Conversion, Belgrade, Serbia), Biljana Babic, Nedeljko Krstajic, Velimir Radmilovic, Ljiljana Vracar

Carbon supported MoOx-Pt and TiOx-Pt nanocatalysts for oxygen reduction reaction

s08-P-023

Seungwook Eom (Battery Research Group, Korea Electrotechnology Research Institute, Changwon, Korea), Seyoung Ahn, Ketack Kim, Hyunsoo Kim

Electrocatalytic characterization of $La_{0.7}Sr_{0.3}Mn_{1-y}Fe_yO_3$ Cathode Material for Zn/Air Rechargeable Battery

s08-P-024

Isaac Esparbé (LEMMA/Dept. Química-Física, Universitat de Barcelona, Barcelona, Spain), Conchita Arias, Enric Brillas, Francesc Centellas, José Antonio Garrido, Rosa María Rodríguez

Thin Layer Rotating Disk Electrode Preparation for Kinetic Studies of Pt Catalysts Supported on Carbon

s08-P-025

Hossein Farsi (Department of Chemistry, University of Birjand, Birjand, Iran (Islamic Republic of)), Zahra Barzgari, Shokufeh Moghiminia

The pH Effects on the Capacitive Properties of Tin Oxide

s08-P-026

Yongjun Feng (Laboratory of Electrocatalysis, UMR-CNRS 6503, University of Poitiers, Poitiers, France), Nicolas Alonso-Vante, Ting He

Influencing Factors of Carbon-Supported $CoSe_2$ Nanoparticles on Oxygen Reduction Reaction

s08-P-027

Alejandro Antonio Franco (CEA (Atomic Energy Commission of France), Department of Hydrogen Technologies (DTH)/PEFC Components Lab(LCPEM), Grenoble, France), Emmanuel Billy, Pascal Fugier, Laure Guetaz, Nicolas Guillet, Sylvain Passot

Degradation of nano-structured Pt_xCo_y catalysts in PEFC: new insights from a multi-scale modelling approach

s08-P-028

Kênia Freitas (Instituto de Química de São Carlos, Departamento de fisico-Química, São Carlos, Brazil), Edson Ticianelli

Electrocatalysis of hydrogen oxidation and CO in platinum dispersed on W_2C

s08-P-029

Snezana Gojkovic (Faculty of Technology and Metallurgy, University of Belgrade, Belgrade, Serbia), Andrzej Kowal, Kug-Seung Lee, Yung-Eun Sung

Electrochemical oxidation of ethanol on Pt-Rh-SnO_2 / XC-72 nanocatalyst

s08-P-030

Ernesto Rafael Gonzalez (Instituto de Química de São Carlos, Universidade de São Paulo, São Carlos, Brazil), Ernesto Rafael Gonzalez, K. Boniface Kokoh, Jean-Michel Léger, Daniela Marques dos Anjos, Eric Sibert, Ruy Sousa Jr., Germano Tremiliosi-Filho

Modeling and Simulation of the Anode in Direct Ethanol Fuels Cells

s08-P-031

Vitali Grinberg (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry of the RAS, Moscow, Russian Federation), Olga Khazova, Natalia Mayorova, Aleksander Pasynskii

Anode Nanoelectrocatalysts on the Base of Organometallic Clusters

s08-P-032

Edoardo Guerrini (University of Milan, Department of Physical chemistry and Electrochemistry, Milan, Italy), Alessandra Colombo, Matteo Duca, Sergio Trasatti

Electrocatalysis of Hydrogen Evolution via Iridium Electroless Deposition on Nickel

s08-P-033

Vladimir Guterman (Chemistry Department, Southern Federal University, Rostov-on-Don, Russian Federation), Sergey Belenov, Olga Dymnikova, Andrey Guterman, Yuriy Kabirov, Igor Leontiev, Elena Pahomova

Effect of binary solvent composition to the structure and activity of Pt/C and Pt-Me/C electrocatalysts prepared by wet synthesis

s08-P-034

Claudio Gutierrez (Institute of Physical Chemistry "Rocasolano", CSIC, Madrid, Spain)

Dependence of the Low-Potential Electrooxidation of CO on Pt on the Number of Pt Monolayers Deposited on Gold

s08-P-035

Eiji Higuchi (Department of Applied Chemistry, Graduate School of Engineering, Osaka Prefecture University, Osaka, Japan), Hiroshi Inoue, Kazumasa Miyata, Shinji Nohara

Preparation of Pt/SnO_2/CB Catalysts and Their Activity for Alcohol Oxidation Reactions

s08-P-036

Kim Hyoung-Kwon (Dept. Materials Science and Engineering, Chonnam National University, Gwangju, Korea), Hyun-Jai Lee, Chan-Jin Park, Choong-Nyeon Park

Effects of Surface Modification of $LMNi_{3.9}Co_{0.6}Mn_{0.3}Al_{0.2}$ Alloy in Alkaline Solution Containing NaBH4 Reductant on Its Electrode Characteristics of Ni-MH Secondary Battery

s08-P-037

Boyano Iker (Energy/CiIDETEC, SAN Sebastian, Spain)

$LiFePO_4/PP_y$ Hybrid electrode

s08-P-038

Peter Ivanov (Institute for High Temperatures, Moscow, Russian Federation)

Thermo-economic Modeling of Hybrid SOFC–GT Power Plant

s08-P-039

Svetlozar Ivanov (Institute of Physical ChemistryBulgarian Academy of Sciences, Sofia, Bulgaria), Vladimir Lyutov, Vessela Tsakova

Photoelectroactivity of High Temperature-Treated TiO_2-Polyaniline Nanocomposite Layers

s08-P-040

Ivan Ivanov (Max-Planck-Institute for Dynamics of Complex Technical Systems, Magdeburg, Germany), Kai Sundmacher, Tanja Vidakovic

The influence of SAM's on gold activity for glucose oxidation

s08-P-041

Timo Jacob (Institut für ElektrochemieUniversität Ulm, Ulm, Germany)

Recent Progress in the Modeling of Fuel Cell Reactions

s08-P-042

Jong Hyun Jang (Center for Fuel Cell Research, Korea Institute of Science and Technology, Seoul, Korea), EunAe Cho, Hyung-Juhn Kim, Sun Min Lee, Hye-Jin Lee, Jisun Lee, Sang-Yeop Lee

Preparation of MEAs by Decal Process and their PEMFC Performances

s08-P-043

Jong Hyun Jang (Center for Fuel Cell Research, Korea Institute of Science and Technology, Seoul, Korea), EunAe Cho, Kun-Ho Kim, Kwan-Young Lee, Sang-Yeop Lee, Tae-Hoon Lim

Enhancement of Initial and Long-term Performances of PEMFC MEAs Made by Spray Method

s08-P-044

Frédéric Jaouen (INRS-EMT, Varennes, Canada), Jean-Pol Dodelet, Shuhui Sun

Supported Pt nanowires for oxygen reduction: Mass and Specific activity in PEFCs

s08-P-045

Kwan-Woo Jung (Dept. Materials Science and Engineering, Chonnam National University, Gwangju, Korea), Jeon Choi, Chan-Jin Park, Choong-Nyeon Park, Dong-Cheol Yang

Effects of Compositions of Additives and Electrolyte on the Electrode Characteristics of Ni-MH Secondary Battery at Room and Low Temperatures

s08-P-046

Remigijus Juskenas (Institute of Chemistry, Vilnius, Lithuania)

Studies of the Electrochemical Hydrogenation/Dehydrogenation of AZ31 and AZ31-Ti Thin Films

s08-P-047

Zenonas Jusys (Institute of Surface Chemistry and Catalysis, Ulm University, Ulm, Germany), Rolf Jürgen Behm, Luis Colmenares, Bengt Kasemo, Anja Schneider, Yvonne Seidel, Björn Wickman

Oxygen reduction reaction activity and selectivity on planar, glassy carbon supported nanostructured Pt model electrodes

s08-P-048

Alexander Kapustin (National Innovation Company, Moscow, Russian Federation), Peter Antonov, Michael Tarasevich

Analysis of voltage-current characteristics of low-temperature MEAs based on perfluorinated Fumapem membrane and HiSPEC-catalysts

s08-P-049

Nitin Kaskhedikar (Max Planck Institute for Solid State Research, Stuttgart, Germany), Guanglei Cui, Yunus Karatas, Joachim Maier, Hans-Dieter Wiemhoefer

Borate Ester Nanocomposites as Electrolytes for Lithium ion Batteries

s08-P-050

Vivien Keller (Physical Chemistry, Saarbruecken, Germany), Rolf Hempelmann, Jens Mitzel, Harald Natter

Transforming gas diffusion layers directly into gas diffusion electrodes for PEMFC by *in-situ*-electrodeposition

s08-P-051

Ketack Kim (Battery Research Group, Korea Electrotechnology Research Institute, Changwon, Korea)

Triazine derivatives as flame retardant additives for Li-ion batteries

s08-P-052

Jandee Kim (Department of Applied Chemistry Waseda University, Tokyo, Japan), Tomoki Kawano, Toshiyuki Momma

Electrocatalytic Activity of Carbon-supported Pd-Sn Catalysts as Oxygen Reduction Reaction Catalysts Prepared using Ultrasonic Irradiation

s08-P-053

Ji-Young Kim (Department of Material Science and Engineering, Yonsei University, Seoul, Korea)

Synthesis of RuO_2/Carbon Nanotube Composites by Microwave Polyol Process for Pseudocapacitor Applications

s08-P-054

Soo-Kil Kim (Center for Fuel Cell Research, Korea Institute of Science and Technology (KIST), Seoul, Korea), Baeck Choi, Heung Yong Ha, Joghee Prabhuram, M. Aulice Scibioh, Yung-Eun Sung

Methanol Tolerant CeO_2, $Ce_{0.8}Sm_{0.2}O_2$ Modified Pt/C Electrocatalysts for DMFC Cathode

s08-P-055

Kang-Jin Kim (Department of Chemistry, Korea University, Seoul, Korea), Young-Sam Jung, A. R. Sathiya Priya

Quasi-solid state electrolytes for enhanced performance of dye-sensitized TiO_2 solar cells

s08-P-056

Taro Kinumoto (Department of Applied Chemistry Faculty of Engineering., Oita University, Oita, Japan), Takeshi Abe, Hyun-Suk Choo, Yasutoshi Iriyama, Masafumi Nose, Zempachi Ogumi, Masahiro Toyoda

Electrochemical Stability of Different Grade of Highly Oriented Pyrolytic Graphite in Sulfuric Acid Solution

s08-P-057

Marijana Kraljic Rokovic (Faculty of Chemical Engineering and Technology, University of Zagreb, Zagreb, Croatia), Visnja Horvat- Radosevic, Kresimir Kvastek, Zoran Mandic

Preparation of NafionTM/Polyaniline/Ru-oxide Composite as Material for Electrochemical Supercapacitors

s08-P-058

Ákos Kriston (Department of Physical Chemistry, Institute of Chemistry, Eötvös Loránd University, Budapest, Hungary), István Faragó, György Inzelt, Tamás Szabó

Investigation of Fuel Cell's Transients for Real Time Parameter Estimation and Control Algorithms

s08-P-059

Nedeljko Krstajic (Faculty of Technology and Metallurgy, University of Belgrade, Belgrade, Serbia)

Kinetics of the Hydrogen Oxidation on Pt Modifid MoO_x Nano-sized Catalyst in the Presence of Carbon Monoxide

s08-P-060

Tatiana Kulova (A.N.Frumkin Institute of Physical Chemistry and Electrochemistry of the Russian Academy of Sciences, Moscow, Russian Federation), Eugenii Goodilin, Anastasiya Grigor'eva, Alexander Skundin, Yurii Tret'yakov

Electrochemical Lithium Insertion into Multiwalled Nanotubes of Vanadium Oxide

s08-P-061

Tatiana Kulova (A.N.Frumkin Institute of Physical Chemistry and Electrochemistry of the Russian Academy of sciences, Moscow, Russian Federation)

Elimination of Irreversible Capacity of Silicon Electrodes: ImmediateContact of Silicon with Lithium Metal

s08-P-062

Chang Kuo-Hsin (Laboratory of Electrochemistry and Advanced Materials, Department of Chemical Engineering, National Tsing Hua University, Hsin-Chu, Taiwan), Chou Chih-Yin

Comparative Study of Sol-gel-derived $RuO_2 \cdot nH_2O$ Annealed in Air and Hydrothermal Process

s08-P-063

Youngkook Kwon (Environmental Science and Engineering /Gwangju Institute of Science and Technology(GIST), Gwangju, Korea), Jaeyoung Lee, Sunghyun Uhm

Electrocatalytic Recycling of CO_2 and HCOOH with Zero-gap Cells

s08-P-064

Jae Kwang Lee (Department of Environmental Science and Engineering / Gwangju Institute of Science and Technology (GIST), Gwangju, Korea), Hongrae Jeon, Jaeyoung Lee

Fabrication of vanadium pentoxide nanowires for electrochemical capacitor

s08-P-065

michel lefevre (INRS-EMT, Varennes, Canada), Jean-Pol Dodelet

Non-precious catalyst for ORR made with microporous carbon supports

s08-P-066

Dong Chan Lim (Department of surface Technology/Korea Institute of Materials Science, Changwon, Korea)

Optical and Electrical Characteristics of Low-dimensional Nanostructured Organic-Inorganic Hybrid Solar Cell

s08-P-067

José Joaquín Linares (Chemical Engineering Department, Univeristy of Castilla La Mancha, Ciudad Real, Spain), Pablo Cañizares, Justo Lobato, Francisco Javier Pinar, Manuel Andrés Rodrigo

Influence of the Pt concentration and PBI loading in the catalytic layer on a PBI-based PEM Fuel Cell

s08-P-068

Mariangela Longhi (Department of Physical Chemistry and Electrochemistry, University of Milano, Milano, Italy), Leonardo Formaro, Ivano Galbiati

Platinum-free electrocatalysts for Oxygen Reduction Reaction

s08-P-069

Kírian Lopes (Department of Chemistry, Federal University of São Carlos, São Carlos, Brazil), Edson Leite, Elson Longo, Flávio Souza

Photoelectrochemical study of alpha-hematite films doped with silicon

s08-P-070

Ana López-Cudero (Instituto Universitario de Electroquímica, Universidad de Alicante, Alicante, Spain), Antonio Aldaz, Juan M. Feliu, Enrique Herrero, Jose Solla-Gullón

Shape-Dependent Electrocatalysts: Formic Acid Electrooxidation on Bi-modified Pt Nanoparticles.

s08-P-071

Chun'an Ma (State Key Laboratory Breeding Base of Green Chemistry-Synthesis Technology, College of Chemical Engineering and Materials Science, Hangzhou, China), Jiangfeng Sheng

Platinum Particles Supported on Tungsten Carbides as Electrocatalysts for Methanol Oxidation

s08-P-072

Sang Bok Ma (Department of Materials Science and Engineering / Yonsei University, Seoul, Korea), Sung Min Park, Kwang Bum Kim, Kyung Wan Nam, Xiao Qing Yang, Won Sub Yoon

In-situ Synchrotron Studies of Lithium Manganese Oxide/Carbon Nanotube Nanocomposite

s08-P-073

Natalia Mayorova (A.N.Frumkin Institute of Physical Chemistry and Electrochemistry of the RAS, Moscow, Russian Federation), Olga Khazova, M. Kislov, Anatolii Krestinin, Elena Tusseeva

Electrocatalytic Activity of Platinum Supported on Functionalized Single-Walled Carbon Nanotubes

s08-P-074

Eguchi Mika (Faculty of Engineering, Ibaraki University, Hitachi, Japan), Taku Suzuki, Katsuhiro Uno, Tsutsumi Yasuyuki

Relation between carbon support structure and ionomer/catalyst ratio in catalyst layer of polymer electrolyte fuel cell

s08-P-075

Pierre Millet (Institut de Chimie Moléculaire et des Matériaux d'Orsay, Université de Paris XI, Orsay, France), Kirill Djous, Vladimir Fateev, Sergey Grigoriev

Bi-functional electrocatalytic layers and gas diffusion electrodes for application in reversible PEM cells

s08-P-076

Shokufeh Moghiminia (Department of Chemistry, University of Birjand, Birjand, Iran (Islamic Republic of)), Raissy Heidar

Effects of Electrochemical-Deposition Method on the Capacitive Behavior of Molybdenum Oxide

s08-P-077

Maria Belen Molina Concha (Laboratoire d'Electrochimie et de Physicochimie des Matériaux et des Interfases, LEPMI, CNRS-INPG-UJF, St. Martin d'Hères, France), Marian Chatenet

Sodium borohydride direct oxidation for Pt, Ag and alloyed Pt-Ag in sodium hydroxide electrolyte

s08-P-078

Enrique Morales (Instituto de Ciencia y Tecnología de Polímeros (CSIC), Madrid, Spain), Jose Luis Acosta, Danielle Esperanza Pacheco-Catalán

Electrochemical performance of mesoporous carbon/conducting polymer electrodes for supercapacitors

s08-P-079

Emilia Morallon (Universidad de Alicante, Departamento de Quimica Fisica e Insituto Universitario de Materiales, Alicante, Spain)

Effect of surface chemistry on electrochemical storage of hydrogen in porous carbon materials

s08-P-080

Mir Fazlollah Mousavi (Chemistry/TMU, Tehran, Iran (Islamic Republic of))

Self-doped polyaniline nanofibers as a new electroactive material for high performance redox supercapacitor

s08-P-081

Hiroki Nara (Department of Applied Chemistry Waseda University, Tokyo, Japan), Toshiyuki Momma

Feasibility of Oxide Free NiSn Alloy Powder for Lithium Secondary Batteries

s08-P-082

Masafumi Nose (Department of Energy and Hydrocarbon Chemistry, Graduate School of Engineering, Kyoto University, Kyoto, Japan), Takeshi Abe, Hyun-Suk Choo, Yasutoshi Iriyama, Taro Kinumoto, Zempachi Ogumi

Influence of Metal Ion and Hydrogen Peroxide on Electrochemical Stability of Highly Oriented Pyrolytic Graphite in Sulfuric Acid Solution

s08-P-083

Maja Obradovic (Institute of Chemistry, Technology and Metallurgy, University of Belgrade, Belgrade, Serbia), Snezana Gojkovic, Bojan Jokic

Electrocatalytic Activity of Carbon Supported Pt Nanoparticles Synthesized by Microwave Procedure

s08-P-084

Ayodele Okunola (Analytische Chemie - Elektroanalytik & Sensorik; Ruhr-Universität Bochum, Bochum, Germany), Michael Bron, Barbara Kowalewska, Pawel Kulesza, Wolfgang Schuhmann

Electrocatalytic Reduction of Oxygen on Electropolymerized Films of Metalloporphyrins Deposited on Multi-Walled Carbon Nanotubes

s08-P-085

Reynaldo Ortiz (Universidad de Los Andes, Merida, Venezuela)

Electrodeposition and characterization of V_2O_5 thin films

s08-P-086

Lars-Erik Owe (Department of Materials Science and Engineering, Norwegian University of Science and Technology, Trondheim, Norway), Ingrid Anne Lervik, Tone Hansen Stabell, Svein Sunde, Mikhail Tsypkin, Reidar Tunold

Oxide Catalysts for the Oxygen Evolution Reaction (OER) in Water Electrolysis

s08-P-087

Sung Bin Park (a Department of Materials Science & Engineering College of Engineering, Korea University, Seoul, Korea), Won Il Cho, Wan-Gyu Lee, Ho Chul Shin, Ho Jang

Improvement of electrochemical properties of $LiFePO_4$ synthesized by wet-milling

s08-P-088

Sivakumar Pasupathi (South African Institute for Advanced Materials Chemistry SAIAMC), Bellville, South Africa), Vladimir Linkov, Xolelwa Ralam

Supported Nanoparticles as Efficient Anode Catalysts for Solid Polymer Electrolyte Water Electrolysers

s08-P-089

Ernesto Pereira (Chemistry Dept. Universidade Federal de Sao Carlos, Sao Carlos, Brazil), Renato Freitas

Improved electrocatalytic activity of Pt films obtained by Polymeric Precursor Method

s08-P-090

Jose Manuel Porras-Vazquez (Departamento Química Inorgánica, Cristalografía y Mineralogía, Malaga, Spain), M.A.G. Aranda, Laura Leon-Reina, Enrique R. Losilla

Effect of the Synthesis-sintering Conditions in the Microstructure and Electrical Properties of lanthanum oxy-apatite, $La_{9.33}(SiO_4)_6O_2$

s08-P-091

Mauricio Javier Prieto (Instituto de Quimica de Sao Carlos/Universidade de Sao Paulo, Sao Carlos, SP, Brazil)

Study of the electro-oxidation of ethanol on Pt-nanoclusters modified polycrystalline gold electrodes

s08-P-092

Paola Quaino (Programa de Electroquimica Aplicada e Ingenieria Electroquimica (PRELINE), Facultad de Ingenieria Quimica, Universidad Nacional del Litoral, Santa Fe, Argentina), Abel Chialvo, María Rosa Gennero de Chialvo, María Sol Rau

Study of the Hydrogen Electrode Reaction on Ruthenium Electrodes: Evaluation of the Polarization Resistence as a Function of the Proton Activity

s08-P-093

Miguel A. Ridao (Dpto. Ingenieria de Sistemas y Automática. Universidad de Sevilla, Seville, Spain), Carlos Bordons, Eduardo López, David Marcos

Development and Experimental Evaluation of the Control System of a Hybrid Fuel Cell Vehicle

s08-P-094

Angel Rodriguez Pierna (Chemical Engineering and Environment Department, San Sebastian, Spain)

Metallic amorphous of (NiNb)99(PtX)1 for ethanol and CO electrooxidation.

s08-P-095

Victor Roev (E&EL/SAIT, Suwon, Korea)

PtCo/C electrocatalysts on the base of graphitized carbons for middle temperature PEMFC

s08-P-096

Zbigniew Rogulski (Faculty of Chemistry, Uniersity of Warsaw, Warsaw, Poland), Maciej Chotkowski, Justyna Giszczak, Malgorzata Karwowska, Martin Krebs, Eduard Pytlik

Electrochemical behavior of "limited volume" metal hydride electrodes

s08-P-097

Zbigniew Rogulski (Faculty of Chemistry, University of Warsaw, Warsaw, Poland), Angelika Gumkowska, Jan Kotowski, Martin Krebs, Eduard Pytlik

Influence of temperature and hydrogen concentration on hydrogen diffusion in AB5 alloys

s08-P-098

Vanesa Ruiz (Instituto Nacional del Carbón, CSIC, Oviedo, Spain), Clara Blanco, Marcos Granda, Rosa Menéndez, Ricardo Santamaría, Isabel Villar

Performance of Carbon-Based Supercapacitors Subjected to Long-Term Cycling. Factors that Determine a Good Cycling Stability

s08-P-099

Young-Gyoon Ryu (Energy and Environment Lab., Samsung Advanced Institute of Technology, Youngin-si, Gyeonggi-do, Korea), Mah Sang Kook, Doo Seok Gwang, Lee Seok Soo

New Electrolyte Additive for High Capacity Lithium Rechargeable Battery Utilizing Silicon/ Graphite Composite anode

s08-P-100

Ada Saccà (CNR-ITAE, Messina, Italy), Alessandra Carbone, Paolo Fracas, Irene Gatto, Enza Passalacqua, Rolando Pedicini

Reinforced Double-Layer Perfluorosulphonic Membranes For High Temperature PEFCs Application

s08-P-101

Alfonso Saez (Instituto de Electroquímica, Universidad de Alicante, Alicante, Spain)

Direct Formic Acid Fuel Cell catalyst: Bi-modified carbon supported Pt nanoparticles

s08-P-102

Annukka Santasalo (Laboratory of Physical Chemistry and Electrochemistry, Helsinki University of Technology, Helsinki, Finland), J. M. Feliu, T. Kallio, K. Kontturi, J. Solla-Gullón, F. J. Vidal-Inglesias

Electrooxidation of Mixtures Containing Methanol and 2-Propanol at Well Oriented Platinum Surfaces

s08-P-103

Elisabete Inacio Santiago (Energy and Nuclear Research Institute, CCCH, IPEN/CNEN-SP, São Paulo, Brazil), Mauro Andre Dresch, Fabio Coral Fonseca, Roberta Alvarenga Isidoro, Marcelo Linardi

Enhanced PEMFC Performance at High Temperature Using Nafion-SiO_2 Hybrid Electrolytes

s08-P-104

Thais Santoro (Dpto. Química Física, Universidad de La Laguna, La Laguna, Spain), Marcelo Linardi, Almir Oliveira Neto, Elena Pastor, José Luis Rodríguez

Stability Studies of Lanthanum Oxides as Co-catalysts for Direct Methanol Fuel Cells

s08-P-105

Jesus Santos (Department of Inorganic Chemistry, Cordoba, Spain), Thierry Brousse, Olivier Crosnier, Sylvain Franger, Julian Morales, Rafael Trocoli

Nanosized alpha-$LiFeO_2$: a potential electrode for lithium ion batteries and electrochemical supercapacitors

s08-P-106

Josef Schefold (European Institue for Energy Research (EIfER), Karlsruhe, Germany), Annabelle Brisse, Mohsine Zahid

The Operation of Large Area Solid Oxide Fuel Cells in the H_2O Electrolyser Mode

s08-P-107

Günther G. Scherer (General Energy, Paul Scherrer Institut, Villigen PSI, Switzerland)

Advanced Fuel Cell Membranes – Grafting Copolymerization of AMS and MAN

s08-P-108

Guenther G. Scherer (Paul Scherrer Institut, Electrochemistry Laboratory, Villigen, Switzerland), Ingo Schneider

Effect of Inert Gas Flow on Hydrogen Underpotential Deposition Measurements in Polymer Electrolyte Fuel Cells

s08-P-109

Thorsten Schilling (Technische Universität DarmstadtErnst-Berl-Institut, TC II, Darmstadt, Germany)

Fe/N-modified multi-walled carbon nanotubes (MW-CNTs) for electrocatalytic applications

s08-P-110

Prabalini Sivasubramaniam (Department of Chemistry, Southampton, United Kingdom), Andrea Russell

Gold Based Electrocatalysts For Fuel Cells

s08-P-111

Alexander Skundin (A.N.Frumkin Institute of Physical Chemistry and Electrochemistry of the Russian Academy of Sciences, Moscow, Russian Federation), Eugenii Goodilin, Anastasiya Grigorieva, Tatiana Kulova, Ekaterina Pomerantseva, Dmitrii Semenenko, Yurii Tret'yakov

Lithium Insertion into V_2O_5 Xerogels: Effect of Preparation Method

s08-P-112

Alexander Skundin (A.N.Frumkin Institute of Physical Chemistry and Electrochemistry of the Russian Academy of Sciences, Moscow, Russian Federation), Tatiana Kulova, Leonid Kupriyanov, Boris Loginov, Yuliana Roginskaya

Comparison of Silicon/Carbon Composites of Different Origin

s08-P-113

Jieun Song (Chemistry , Sogang Univ., Seoul, Korea), Zhenyu Hong, Chang Hwan Kim, Woonsup Shin

Bioelectrocatalytic Conversion of CO_2 to Formate By Microbes ; Screening of Microbes and Optimization of The Experimental Conditions

s08-P-114

Flavio Leandro Souza (Chemistry/Federal University of São Carlos, São Carlos, Brazil), Edson Roberto Leite

Physical-chemistry properties of hybrid decoupled polyelectrolyte and their performance in an electrochemical device

s08-P-115

Ivana Stojkovic (Faculty of Physical Chemistry, Belgrade, Serbia), Nikola Cvijetisanin, Slavko Mentus, Igor Pasti, Ivana Stojkovic

Aqueous Li ion cell based on V_2O_5 and $LiMn_2O_4$

s08-P-116

Sharon Su (National Synchrotron Radiation Research Centre, Taiwan, Taiwan), Cheng-Cheng Chiang, Wei-Tsung Chuang, Tai-Ching Fan, Cheng-An Hsieh, Jyh-Fu Lee, Ben-Jie Liaw, Wen-Ren Liu, Jin-Sheng Tsai

Nano size cocrystalline olivine as cathode material for high power lithium rechargeable battery

s08-P-117

Hugo B. Suffredini (Universidade Federal do ABC, Santo André, Brazil), Guilherme Soares Buzzo, Rafael Vitor Niquirilo

Formic Acid Oxidation on Pt-(PbO_x-RuO_2)/C and Pt-PbO_x/C Catalysts Synthesized by the Sol-Gel Method

s08-P-118

Shi-Gang Sun (Chemistry department, Xiamen University, Xiamen, China), Ling Huang, Fu-Sheng Ke

CuO nanoribbons array fabrication and its property as anode materials for lithium-ion batteries

s08-P-119

Osman Sinan Suslu (Energy Institute/Istanbul Technical University, Istanbul, Turkey), Osman Sinan Suslu

A New Perspective in Combined Heat and Power Production for Fuel Cell-Heat Engine Hybrid Systems

s08-P-120

Mizukami Takaaki (Hitachi, Ltd. Materials Research Laboratory, Hitachi, Japan), Masaya Kozakai, Takaaki Sasaoka, Mineo Washima

Evaluation of Light Weight Metal Bipolar Plate by Ti/Al-alloy/Ti Clad for Polymer Electrolyte Fuel Cell

s08-P-121

Osamu Tanaike (Energy Technology Research Institute, Advanced Industrial Science and Technology, Tsukuba, Japan), Hiroaki Hatori, Osamu Kimizuka, Katane Yamada

Electrochemical Expansion of Graphite and SWNTs Short-circuited with Lithium Metal in Various Electrolytes

s08-P-122

Michael Tarasevich (A/N/ Frumkin Institute of Physical Chemistry and Electrochemistry, Moscow, Russian Federation), Victor Andoralov, Michael Tarasevich

Kinetics and mechanism of electroreduction of oxygen on the PdCo and PdCoCr catalytic systems

s08-P-123

Edson A. Ticianelli (Instituto de Quimica de Sao Carlos, USP, São Carlos, Brazil), Adriano C. Fernandes

Correlations of the Gas Diffusion Electrode Design Parameters and the Performance of a PEMFC Working at Several Gas Humidification Conditions and Pressures

s08-P-124

Loan To Thi Kim (Interfaces et Systèmes Electrochimiques-UPR 15 CNRS, Université Paris VI, Paris, France), Claude Gabrielli, José Juan García-Jareño, Hubert Perrot, Francisco Vicente

Characterization of proton exchange membrane of Nafion® by coupling electrochemical impedance and ac-electrogravimetry

s08-P-125

Germano Tremiliosi-Filho (Intituto de Quimica de Sao Carlos, Universidade de Sao Paulo, Sao Carlos, SP, Brazil), Liliane Cristina Battirola, Ubirajara Pereira Rodrigues-Filho

Influences of the Nafion® 117 membranes doped with Pt and Pt/Ru nanoparticles on the performance of the DEFC

s08-P-126

Rafael Trocoli (Departament of Inorganic Chemistry, Cordoba, Spain), Charlotte Benoît, Sylvain Franger, Julian Morales, Jesus Santos

Rocking Chair Cells based on Lithium Iron Phosphate

s08-P-127

Elena Tusseeva (A.N.Frumkin Institute of Physical Chemistry and Electrochemistry of the RAS, Moscow, Russian Federation), Olga Khazova, Natalia Mayorova, Nadezhda Nikol'skaya, Valentin Sosenkin, Yurii Volfkovich

Carbon Nanotubes Structure and its Influence on the Specific Surface of Deposited Catalysts

s08-P-128

Katsuhiro Uno (Department of Graduate school of Science and Engineering, Ibaraki University, Hitachi, Japan), Mika Eguchi, Yasuyuki Tsutsumi

Laser diffraction by the catalyst layers of membrane-electrode assemblies

s08-P-129

Adriane V. Rosario (Laboratório Interdisciplinar de Eletroquímica e Cerâmica, Centro para o Desenvolvimento de Materiais Cerâmicos, Departamento de Química, Universidade Federal de São Carlos, São Carlos, Brazil), Leandro A. Pocrifcka, Ernesto C. Pereira

Dependence of RuO_2 capacitive properties on the preparation conditions

s08-P-130

Michael Vallance (General Electric Global Research, Niskayuna, USA), David Bogdan, Karthick Gourishankar, Hari Nadathur Seshadri, Guruprasad Sundararajan

Sodium-Zinc Chloride Energy Battery for Hybrid Diesel-Electric Drive Systems

s08-P-131

Amado Velázquez (Laboratori d'Electroquímica dels Materials i del Medi Ambient, Departament de Química Física, Universitat de Barcelona, Barcelona, Spain), Conchita Arias, Enric Brillas, Francesc Centellas, Jose Antonio Garrido, Rosa María Rodríguez

Electrochemical characterization of supported Pt-Ru catalyst for polymer electrolyte fuel cells

s08-P-132

Marco Villa (Dipartimento di Progettazione e Tecnologie, Dalmine, Italy), Paolo Salvi, Erwin Verardi, Giovanni Zangari

Activation, passivation and durability of Ni-based electrodes for energy conversion

s08-P-133

Ljiljana Vracar (Faculty of Technology and Metallurgy University of Belgrade, Belgrade, Serbia)

Hydrogen Oxydation in the Presence of Carbon Monoxide on Platinum Nano-sized Catalyst

s08-P-134

Lianbnag Wang (State Key Laboratory Breeding Base of Green Chemistry-Synthesis Technology, College of Chemical Engineering and Materials Science,, Hangzhou, China)

Tin-based Negative Materials for Lithium-Ion Batteries Prepared by Ball-milling Method

s08-P-135

Lianbang Wang (State Key Laboratory Breeding Base of Green Chemistry-Synthesis Technology, College of Chemical Engineering and Materials Science, Hangzhou, China)

$LaNi_{4.5}Al_{0.5}$ alloy modified with Si used as anodic materials in a borohydride fuel cells

s08-P-136

Lianbang Wang (State Key Laboratory Breeding Base of Green Chemistry-Synthesis Technology, College of Chemical Engineering and Materials Science, Hangzhou, China)

Sn-based thin film anode for lithium ion microbatteries prepared by Magnetron sputtering

s08-P-137

Rakel Wreland Lindström (Applied Electrochemistry, Stockholm, Sweden)

CO stripping to detect PEMFC catalst degradation after corrosion experiment

s08-P-138

Ichizo Yagi (FC-Cubic, AIST, Tokyo, Japan), Akari Hayashi, Ken'ichi Kimijima, Junichi Miyamoto

Pt/Mesoporous (MC) Model Catalyst for PEFC

s08-P-139

Nobuko Yoshimoto (Graduate School of Engineering, Yamaguchi University, Ube, Japan), Minato Egashira, Mami Matsumoto, Masayuki Morita

Electrochemical Behavior of Magnesium in Quaternary Ammonium-based Ionic Liquid

s08-P-139

Kenji Kikuchi (Department of Materials Science University of Shiga Prefecture, Hikone, Japan) Gentaro Kinoshita, Atsushi Mineshige, Masahiko Nishigima, Zempachi Ogumi, Takeo Oku

Preparation and electrical properties of YSZ/SDC-NiO electrolyte fabricated by CVI method

s08-P-140

Takahiro Yoshimoto (Department of Materials Science and Environmental Engineering, Tokyo University of Science, Yamaguchi, SanyoOnoda, Japan), Naoki Toshima

Nano-Network of Nafion®-Protected Pt Nanoparticles for Polymer Electrolyte Fuel Cells

s08-P-141

Rocio Romero (Fisica Aplicada I Universidad de Malaga, Malaga, Spain), Lourdes Martinez, Dietmar Leinen, Francisco Martin, Mercedes Gabas, Jose Ramos-Barrado

Performance of Pure and Doped Nb^2O5 Thin Films

Symposium 9: Micropowered Devices: Energy Harvest, Storage and Conversion

s09-P-001

Yanhua Cui (Institute of Electronic Engineering, China Academy of Engineering Physics, Sichuan, China), Zhenwen Fu, Xiaolin Wang, Hua Zhang, Yongning Zhou

Reaction Mechanism of Copper Fluoride Film Fabricated by PLD with Lithium for Thin Film Microbattery

s09-P-002

Mitsuru Higa (Yamaguchi University, Ube, Japan), Nobutaka Endo, Shin-ichi Maesowa, Mikinori Sugita

Poly(vinyl alcohol) Based Polymer Electrolyte Membranes and their performances for Direct Methanol Fuel Cell

s09-P-003

Mikito Ueda (Hokkaido University, Sapporo, Japan), Yusuke Mito, Toshiaki Ohtsuka

Electrodeposition of Sb-Te Alloy in Chloride Molten Salt by Constant Potential Electrolysis

General Session

s10-P-001

Mariana Toma (Associated francophone Laboratory/Fcaulty of Chemistry and Chemical Engineering/ Babes-Bolyai University, Cluj-Napoca, Romania), Maria Jitaru

Phenolic Content of Some Romanian Wines –Electrochemical Approach

s10-P-002

Alejandro Alvarez-Lueje (Chemical and Pharmaceutical Sciences Faculty, University of Chile., Santiago de Chile, Chile), Manuel Bravo, María José Orellana, Hernán Pessoa

Evaluation of Stability of a 2-(o-nitrophenyl)-benzimidazole Derivative by DPP and Multivariate Calibration

s10-P-003

Yuriy Andriyko (ECHEM Centre of Competence in Applied Electrochemistry, Wiener Neustadt, Austria), Gerhard Nauer

Electrochemical reduction of $TiCl_4$ in Imidazolium based ILs with Azide and Tetrafluoroborate anions

s10-P-004

María Guadalupe Arroyo-Núñez (Departamento de Ingeniería Química y Nuclear, Universidad Politecnica de Valencia, Valencia, Spain), José García Antón, José Luis Guiñón Segura, María Teresa Montañés Sanjuán, Valentín Pérez Herranz

Effect of current density on the electrocoagulation of Cr(VI) solutions.

s10-P-005

Manuel J. Barrera Niebla (Physical Chemistry Department, University of La Laguna, La Laguna, Spain), Luis C. Fernández Mérida, Margarita R. García Hernández, Domingo M. Grandoso Medina, J. César Rodríguez Placeres, Graciliano M. Ruiz Cabrera

Convolutive modelling for an Eq Ci reaction at planar electrodes by using Mathematica® software

s10-P-006

Peter Birkin (School of ChemistryUniversity of Southampton, Southampton, United Kingdom), Timothy Leighton, Christopher Vian

Monitoring surface cleaning using electrochemical and imaging techniques

s10-P-007

Andrzej Bobrowski (AGH - University of Science and Technology, Department of Building Materials Technology, Faculty of Materials Science and Ceramics, Kraków, Poland), Agnieszka Królicka, Jerzy Zarebski

Bismuth Film Electrodes in Catalytic Adsorptive Stripping Voltammetry - Preparation, Properties and Analytical Application

s10-P-008

Andrzej Bobrowski (AGH - University of Science and Technology, Department of Building Materials Technology, Faculty of Materials Science and Ceramics,, Kraków, Poland), Pawel Kapturski

Constant Current Stripping Chronopotentiometry at the Cyclic Renewable Mercury Film Silver Based Electrode

s10-P-009

Agustín E. Bolzán (Instituto de Investigaciones Fisicoquímicas Teóricas y Aplicadas, La Plata, Argentina), A. J. Arvia, L. M. Gassa

EIS Study of the Adsorption and Electro-oxidation of Thioureas on Gold Electrodes in Acid Solutions

s10-P-010

Lourdes Cabrera (Química-Física Aplicada, Universidad Autónoma de Madrid, Madrid, Spain), Lourdes Cabrera, Silvia Gutiérrez, Pilar Herrasti, Maher Kalaji, Duarte Tito

In-situ Infrared Spectroscopy and Current Transient Studies for the Electrooxidation of Iron Electrodes.

s10-P-011

Nieves Casañ Pastor (ICMAB-CSIC, Bellaterra, Spain)

Conductive polymers as Substrates for Neural growth

s10-P-012

Nieves Casañ-Pastor (ICMAB-CSIC, Bellaterra, Spain)

Electroactive Oxide Coatings as Neural Interfaces

s10-P-013

Durante Christian (Dipartimento di Scienze Chimiche, Università degli studi di Padova, Padova, Italy), Isse Abdirisak Ahmed, Armando Gennaro, Giancarlo Sandonà

Electrochemical abatement of Cr(III) in genuine wastewater samples

s10-P-014

Djenaine De Souza (Departamento de Quimica, Universidade Federal de São Carlos, São Carlos, Brazil), Orlando Fatibello-Filho, Lucia Helena Mascaro

Electrochemical behavior of the thiram pesticide on copper solid amalgam electrode

s10-P-015

Elizabeth Fátima de Souza (Faculdade de Química, CEATEC, PUC-Campinas, Campinas, Brazil), Omar Teschke

Line Tension Contribution to the Water/Air Bubble Interfacial Energy

s10-P-016

Elizabeth Fátima de Souza (Instituto de Química, CEATEC, PUC-Campinas, Campinas, Brazil), Wyllerson Evaristo Gomes, Mariana Rodrigues Peres, David Mendez Soares

Surfactant performance as solubilizer and remover of groundwater dense non-aqueous phase liquids

s10-P-017

Mirela Enache (Institute of Physical Chemistry "I. Murgulescu", Bucharest, Romania), Sorin Munteanu, Cristina Tablet, Elena Volanschi

Degradation of Dyes Pollutants: Electrochemical and Photophysical Investigations on Brilliant Blue

s10-P-018

Karen Esquivel (Electrochemistry Department, Centro de Investigación y Desarrollo Tecnológico enElectroquímica, S. C., Pedro Escobedo, Mexico)

Development of a new TiO_2/optical fiber electrode employed in electrochemical advanced oxidation processes to remove dyes from aqueous solutions.

s10-P-019

Orlando Fatibello-Filho (Department of Chemistry, Universidade Federal de São Carlos, São Carlos, Brazil), Elen Sartori, Roberta Medeiros

Square-wave voltammetric determination of acetylsalicylic acid in pharmaceutical formulations using a boron-doped diamond electrode

s10-P-020

Hector Fernandez (Departamento de Quimica, Universidad Nacional de Rio Cuarto, Rio Cuarto, Argentina), Paola A. Jara Ulloa, Luis Nuñez Vegara, Eduardo A. Ramirez, Juan A. Squella, Maria A. Zon

Electro-oxidation of Ochratoxin a (OTA) at Glassy Carbon Electrodes in a highly Acidic Reaction Medium

s10-P-021

Miriam Gamero (Quimica FÃsica Aplicada, Madrid, Spain), Concepcion Alonso, Maria Encarnacion Lorenzo, Felix Pariente

Deposition of nanostructrated gold on n-doped silicon substrate by means of different electrochemical techniques

s10-P-022

Jorge M. Ginja Teixeira (Universidade de Evora, Departamento de Quimica & Centro de Quimica de Evora, Evora, Portugal), António José Candeias, Dora Martins Teixeira

Adsorptive cathodic stripping voltammetric measurements of uranium (VI) using a ficus extract - modified carbon paste electrode

s10-P-023

Jorge M. Ginja Teixeira (Universidade de Evora, Departamento de Quimica & Centro de Quimica de Evora, Evora, Portugal)

Electrodic behavior of Tl(I)/Tl(Hg) couple in tetra-n-butylammonium chloride solutions: A voltammetric and electrochemical impedance study

s10-P-024

M. Paz Godino (Deparment of applied physics, University Complutense of Madrid, Madrid, Spain), V. Maria Barragan, J. P. G. Villaluenga, M. Amparo Izquierdo-Gil

Swelling Properties in Aqueous-organic Electrolyte Media of Cation-Exchange Membranes with Different Structure

s10-P-025

Andreza Barbosa Gomide (Instituto de fisica, UNICAMP, Campinas, Brazil), Wyllerson Evaristo Gomes, David Mendez Soares, Mario Alberto Tenan

Structured Water Formation at the Gold/Water Interface

s10-P-026

Meital Goor (Electrochemistry, Tel-Aviv, Israel), Emanuel Peled

The Effect of the Hydrophobicity of the BPP on the Power of the DMFC

s10-P-027

Boris M. Grafov (A.N.Frumkin Institute of Physical Chemistry and Electrochemistry of Russian Academy of Sciences, Moscow, Russian Federation)

Nonlinear Double Layer Charge Fluctuations in Equilibrium

s10-P-028

Paula Grez (Instituto de Química, Pontificia Universidad Católica de Valparaíso, Valparaíso, Chile), Regina Cisternas, Ricardo Córdova, Rodrigo Henríquez, Ricardo Schrebler

Electrochemical Study of the Interaction of Natural Tetrahedrite with Ethylditiocarbonate (EX-) in Buffer Solution pH 9.2

s10-P-029

Elia Grueso (Departamento de Quimica Fisica, Universidad de Sevilla, Sevilla, Spain), Emilio Roldan, Francisco Sanchez

A Kinetic Study of the Interaction DNA-CTAB by Using Selective Electrodes

s10-P-030

Rui Gusmão (Departament de Química Analítica, Universitat de Barcelona, Barcelona, Spain), Cristina Ariño, José Díaz-Cruz, Miquel Esteban

Electrochemical Study of the Competitive Complexation of Thiol-Containing Peptides by Heavy Metals Assisted by Multivariate Curve Resolution

s10-P-031

Yuki Haijima (Dept. of Industrial Chemistry, Graduate School of Engineering, Kanto Gakuin Univ., Yokohama, Japan), Ichro Koiwa, Ayaka Matsumura, Takeharu Sugiyama

Reactive Composite Film using Electro- or Electroless- Plating with Metal Nano-Powder

s10-P-032

David Harrington (Chemistry Department, University of Victoria, Victoria, Canada), Pauline van den Driessche

Impedance, Equivalent Circuits, and Reaction Mechanisms

s10-P-033

Gul Hisarli (Istanbul University, Istanbul, Turkey), Kenan Cinku, Sevgi Kocaoba, Elif Levent

Voltammetric Determination of Trace Amounts of Cadmium using Clay Modified Electrode

s10-P-034

Daisuke Ihara (Graduate School of Engineering Science, Osaka University, Osaka, Japan)

Oscillatory electrodeposition of metal films at liquid/liquid interfaces induced by large surface energy of growing deposits

s10-P-035

Akbar Islamnezhad (Dept of Chemistry, Faculty of Science, University of Guilan, Rasht, Iran (Islamic Republic of)), Mohammad Ali Zanjanchi

Zeolite-Modified Carbon Paste Eectrode as a Selective Voltammetric Sensor for Detection of Tryptophan

s10-P-036

Puy Jaume (Chemistry Department Lleida University, Lleida, Spain)

Metal Interactions with Heterogeneous Environmental Matter

s10-P-037

Maria Jitaru (Associated Francophone Laboratory, Faculty of Chemistry and Chemical Engineering/ Babes-Bolyai UniversityUniversity, Cluj-Napoca, Romania), Mihaela Tertis, Mariana Toma

Combined Adsorption and Electrochemical Oxidation of Phenols on Zeolites Modified Electrodes

s10-P-038

Keith Johnson (Department of Chemistry and Biochemistry, University of Regina, Regina, Canada)

The Significance of Ionic Conductivities

s10-P-039

Borka Jovic (Institute for Multidisciplinary Research, Belgrade, Yugoslavia), Uros Lacnjevac

Characterization of electrodeposited Ni-Mo-O alloy powders

s10-P-040

Marzena Kaniewska (Warsaw University, Department of Chemistry, Warsaw, Poland), Marek Trojanowicz

Enantioselectivity of Potentiometric Response of Conducting Polymer Sensors

s10-P-041

Ghasem Karim-Nezhad (Department of Chemistry, Khoy, Iran (Islamic Republic of)), Mohammad Hasanzadeh, Lotfali Saghatforoush, Nasrin Shadjo

Study of the Electro-Catalytic Oxidation of Some Monosaccharide on a Cobalt Hydroxide Modified Glassy Carbon Electrode in Alkaline Solution

s10-P-042

Ioannis Katsounaros (Department of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece), Maria Dortsiou, Christos Polatides

On the Mechanism of the Electrochemical Reduction of Nitrate

s10-P-043

Ioannis Katsounaros (Department of Chemical Enginnering, Aristotle University of Thessaloniki, Thessaloniki, Greece), Maria Dortsiou, Christos Polatides

Electrochemical Destruction of Nitrate and Nitrite from Low Level Radioactive Wastes

s10-P-044

Kensuke Kuroda (Dept. of Mater. Sci. & Eng., Nagoya Univ., Nagoya, Japan), Ryoichi Ichino, Ikki Kawai, Masazumi Okido

Osteoconductivity of TiO_2 coatings on the Ti substrate with micron-level surface roughness

s10-P-045

Marcos R. V. Lanza (Universidade São Francisco, Bragança Paulista, Brazil), André A. G. F. Beati, Fabio Boin, Regina C. A. Fernandes, Joaquim G. Oliveira, Ana Paula A. Sá

Ametryn Oxidation via Electro-fenton using Gas Diffusion Electrodes

s10-P-046

María Lasheras-Zubiate (Departamento de Química y Edafología / Universidad de Navarra, Pamplona, Spain), José María Fernández, Íñigo Navarro-Blasco

Voltammetric evaluation of chitosan as an effective complexing ligand for the removal of toxic heavy metals

s10-P-047

Chong Yong Lee (School of Chemistry, Monash University., Clayton, Melbourne, Australia), Alan M Bond, Si-Xuan Guo, Keith B Oldham

Probing Heterogeneity on Highly Ordered Pyrolytic Graphite Electrode Surface Using Large Amplitude Fourier Transform ac Voltammetry

s10-P-048

Grzegorz Lisak (Laboratory of Analytical Chemistry, Åbo Akademi University, Åbo, Finland), Johan Bobacka, Ewa Grygolowicz - Pawlak, Andrzej Lewenstam, Elzbieta Malinowska, Marta Mazurkiewicz, Tomasz Sokalski

Polyacrylate-based lead (II) ion-selective electrodes

s10-P-049

Javier Llanos (Chemical Engineering Department, Faculty of Chemical Sciences, University of Castilla-La Mancha, Ciudad Real, Spain), Pablo Cañizares, Ángel Pérez, Manuel A. Rodrigo

Electrochemical Approach to the Regeneration of Bonding Agents Used in Polymer Supported Ultrafiltration (PSU) Processes

s10-P-050

Ana Lopes (Department of Chemistry, University of Beira Interior, Covilhã, Portugal), Lurdes Ciríaco, Isolina Gonçalves, Sandra Sobreira

Effect of a Redox Mediator on Azo Dyes Decoulorazition

s10-P-051

Pedro Maciel (Vrije Universiteit Brussel, Faculty of Engineering, Dept. of Electrical Engineering, IR, ETEC, Brussels, Belgium), Tim Aerts, Daan Deconinck, Johan Deconinck

A numerical framework for magneto-electrochemistry

s10-P-052

Itamar Malkowsky (BASF SE, Ludwigshafen, Germany), A Alemany, X Zhang

Ionic Liquids and recent developments in the field of aluminium deposition

s10-P-053

Anderson Marc (UW-Madison, Madison, USA), Fabiana Paschoal, Greg Pepping, Maria Valnice Zanoni

Photoelectrocatalytic Removal of Bromate in Drinking Waters

s10-P-054

Alberto Martínez (Departamento de Química/Universidad de Burgos, Burgos, Spain), Alvaro Colina, Robert A.W. Dryfe, Virginia Ruiz

Spectroelectrochemical Study of Pd Deposition at the Liquid-Liquid Interface

s10-P-055

Hadar Mazor (Electrochemistry Department, Tel Aviv, Israel), Diana Golodnitsky, Emanuel Peled, Bruno Scrosati, W. Wieczorek

Solid polymer electrolytes with high cation transference number

s10-P-056

Yunny Meas (Centro de Investigación y Desarrollo Tecnológico en Electroquímica (CIDETEQ), Sanfandila Pedro Escobedo, Mexico), Patricia Díaz, Alia Méndez-Albores, Raúl Ortega, Gabriel Trejo

EQCM study of the adsorption/desorption processes of polyethyleneglycol with molecular weight 20,000 on Pt in perchloric acid solution

s10-P-057

Simone Morais (Requimte, Instituto Superior de Engenharia do Instituto Politécnico do Porto, Departamento de Engenharia Química, Porto, Portugal), Cristina Delerue-Matos

Electrochemical Study of Chlortoluron

s10-P-058

Yoshiharu Mukouyama (Department of Natural Sciences,College of Science and Engineering,Tokyo Denki University, Hatoyama, Saitama, Japan), Hiroshi Okamoto

Hydrogen evolution reaction affected anomalously due to addition of salt

s10-P-059

Ignacio Naranjo-Rodríguez (Department of Analytical Chemistry, Faculty of Science, University of Cádiz, Puerto Real, Spain), Laura María Cubillana-Aguilera, José Luis Hidalgo-Hidalgo de Cisneros, José María Palacios-Santander

A New Sonogel-Carbon-1-Furoylthiourea Electrode

s10-P-060

Cristiane Oliveira (Universidade Federal de São Carlos, São Carlos, Brazil), M L Cardoso, A. J.A. Oliveira, E C Pereira

Overlapped Porous Layers on Anodic Alumina Prepared under Galvanostatic Anodization

s10-P-061

Emma Ortega (Dpt. Ingeniería Química y Nuclear, Universidad Politécnica de Valencia, Valencia, Spain), Valentin Perez-Herranz, Gerald Pourcelly, Philippe Sistat

Diffusion layer thickness adjacent to a cation-exchange membrane under natural convection for Zn chloride plating baths components

s10-P-062

Ichiro Otsuka (Department of Biomaterials, Ohu University, Koriyama, Japan)

Effect of 1:2 aqueous dilution on O_2 nanobubble in 0.1 M Na_2CO_3 solution

s10-P-063

Beata Paczosa-Bator (AGH University of Science and Technology, Faculty of Material Science and Ceramics, Cracow, Poland)

Biomimetic Membranes Sensitive towards Monovalent Cations Based on Poly(N-methylpyrrole)

s10-P-064

Beata Paczosa-Bator (AGH University of Science and Technology, Faculty of Material Science and Ceramics, Cracow, Poland)

Analysis of the Influence PVC Membrane Composition on Ion Transport Properties Investigate with EIS

s10-P-065

José María Palacios-Santander (Department of Analytical Chemistry, Faculty of Science, University of Cádiz, Puerto Real, Spain), Laura María Cubillana-Aguilera, Osvaldo Lázaro Estévez-Hernández, José Luis Hidalgo-Hidalgo de Cisneros, Ignacio Naranjo-Rodríguez, Edilso Reguera

Carbon-Paste Electrodes Modified with 1-Furoylthioureas for the Analysis of Cadmium

s10-P-066

Hooshang Parham (Chemistry, Ahvaz, Iran (Islamic Republic of)), Behzad Aibaghi Esfahani

Simultaneous Determination of Furazolidone and Metronidazole IN Urine by Square-Wave Voltammetric Method

s10-P-067

Seelanan Parinya (Department of Bioengineering, London, United Kingdom), Anthony E. G. Cass, Severin L. R. Harvey, Danny O'Hare

Ring-disc microsensor for electrochemical titration in flowing system

s10-P-068

Youngjin Park (Department of Chemistry and Interdisciplinary Program of Integrated Biotechnology, Sogang University, Seoul, Korea), Junghyun Lee, Woonsup Shin

Anion effect on the Electrochemical Formation of Hopeite in Various Anions

s10-P-069

Pier Parpot (Department of Chemistry, University of Minho, Braga, Portugal), Hervé Huser, Boniface Kokoh, Karine Servat

Selective Oxidation of Carbohydrates Mediated by TEMPO

s10-P-070

Robert Piech (Department of Analytical Chemistry, AGH University of Science and Technology, Krakow, Poland), Boguslaw Bas, Malgorzata Jakubowska, Ewa Niewiara, Witold Reczynski, Marta Ziemnicka

TiC working electrode. Voltammetric characteristics and application in anodic stripping voltammetry

s10-P-071

Robert Piech (Department of Analytical Chemistry, AGH University of Science and Technology, Krakow, Poland), Malgorzata Jakubowska

Continuous wavelet transform in parallel determination of antimony and copper

s10-P-072

Robert Piech (Department of Analytical Chemistry, AGH University of Science and Technology, Krakow, Poland), Boguslaw Bas, Malgorzata Jakubowska, Wladyslaw W. Kubiak

Determination of Mn(II) traces using anodic stripping voltammetry at renewable mercury film electrode

s10-P-073

Magali Quinet (Institut UTINAM, Equipe Sonochimie et Réactivité des Surfaces, UMR CNRS 6213, Besançon, France)

Influence of two organic additives on the copper nucleation mechanism

s10-P-074

Magali Quinet (Institut UTINAM, Equipe Sonochimie et Réactivité des Surfaces, UMR CNRS 6213, Besançon, France)

Influence of organic additives in the initial stages on the copper electrodeposition on polycrystalline platinum

s10-P-075

Minerva Ramírez-Berriozabal (Departamento de Química, Universidad Autónoma Metropolitana-Iztapalapa, México, Mexico), Laura Galicia, Silvia Gutiérrez-Granados, Pilar Herrasti, José Sandoval-Cortes

Selective electrochemical determination of uric acid in biological samples.

s10-P-076

Eduardo Mathias Richter (Instituto de Química, Universidade Federal de Uberlândia, Uberlândia, Brazil), Lúcio Angnes, Denise T. Gimenes, Wallans P. T. Santos

Flow Injection Analysis with Pulsed Amperometric Detection for Simultaneous Analysis

s10-P-077

Robson S. Rocha (DEMA/FEM Universidade Estadual de Campinas, UNICAMP, Campinas, Brazil), Rodnei Bertazzoli, Marcos R. V. Lanza, Robson S. Rocha

Development of Gas Diffusion Electrode for Natural Gas Electroxidation

s10-P-078

Cristina Saez (Department of Chemical Engineering, Faculty of Chemistry, Universidad de Castilla La Mancha, Ciudad Real, Spain), Pablo Cañizares, Fabiola Martínez, Manuel A. Rodrigo, Ana Sánchez-Carretero, Diego Úbeda

Treatment of actual metalworking wastewaters by coagulation combined with electrochemical oxidation

s10-P-079

Tetsuo Saji (Department of Materials Science, Tokyo Institute of Technology, Meguro-ku, Japan), Haruko Fujita, Nabeen K. Shrestha

Effect of hydrophilic group on thin film formation using redox-active surfactants with an azobenzene group

s10-P-080

Alberto Sánchez Arribas (Dpto. Química Analítica y Análisis Instrumental, Facultad de Ciencias, Universidad Autónoma de Madrid, Madrid, Spain), Esperanza Bermejo, Manuel Chicharro, Mónica Moreno, Antonio Zapardiel

Bismuth Film Electrode for the Electrochemical Determination of Herbicides

s10-P-081

Raul A Sanchez-Moreno (Química Analítica y Análisis Instrumental, Madrid, Spain), M. Jesus Gismera, M Teresa Sevilla

Carbon Epoxy Composite Electrodes as Chromium (VI) Potentiometric Sensors

s10-P-082

Mª Teresa Sevilla (Química Analítica y Análisis Instrumental, Madrid, Spain), Jesus R Procopio, Raul A. Sanchez-Moreno

Flow Injection and Batch Potentiometric Detection of Chromium (III)

s10-P-083

Sanja Slavica Matesic (TLM d.d. Tvornica Lakih Metala, Sibenik, Croatia), Jagoda Radoševic

The effect of Fe content and thermo-mechanical processes on corrosion properties of the EN AW 8006 alloy

s10-P-084

María Soledad Ureta-Zañartu (Facultad de Química y Biología Universidad de Santiago de Chile, Santiago, Chile), Roxana Arce, Cristhian Berríos, Thais González, Claudio Gutiérrez

Electrooxidation of Benzyl Alcohol on Au and GC Electrodes Modified with polyNiTSPc Films

s10-P-085

Eliana Valle (IQSC/USP, São Carlos, Brazil), José Maria Fernández, Sergio Machado, Carolina Santamaría

Picloram and Thiram: 2 pesticides acting as heavy metals carriers portrayed by DPASV.

s10-P-086

Cristina Vaquero-Aguilar (Departamento de Física de la Materia Condensada, Universidad de Sevilla, Sevilla, Spain), María Esther Enrique-Magariño, Julián Martínez-Fernández

High Temperature Plastic Behavior of Y:$BaCeO_3$ Polycrystals

s10-P-087

Claudia Yanez (Departamento de Quimica Organica y Fisicoquimica, Facultad de Ciencias Quimicas y Farmaceuticas, Universidad de Chile, Santiago, Chile), Mauricio Araya

Electrochemical study of bentazon-cyclodextrin inclusion complex

s10-P-088

Claudio Zapata (Chemical and Pharmaceutical Sciences Faculty, University of Chile., Santiago de Chile, Chile), Alejandro Alvarez-Lueje, Soledad Bollo, Manuel Bravo, Magdalena Pérez

Simultaneous Determination of L-dopa and Carbidopa by Differential Pulse Voltammetry and Multivariate Calibration

s10-P-089

Elif Levent (Istanbul University, Istanbul, Turkey), Gul Hisarli, Sevgi Kocaoba, Kenan Cinku

Development of Clay Modified Electrode for Voltammetric Determination of Trace Amounts of Lead

s10-P-090

Fabiane Caxico de Abreu (Chemistry/Universidade Federal de Alagoas, Maceió, Brazil), Nivaldo Alves Soares, Emanuella Gomes Da Silva, Marilia O. F. Goulart, Maria Teresa Salles Trevisan, Fabricia Da Rocha Ferreira

Study of the inclusion complex of Mangiferin in [beta]-cyclodextrin by spectroscopic and electrochemical methods

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Social Program

Sunday 7 September

Welcome Reception (included with registration fee)

20:00-21:00 At the University Hall (Rectorado de la Universidad de Sevilla)
(one free drink Welcome Reception ticket included with Registration sheet)

Monday 8 September

Monday Reception (included with registration fee)

19:10 At Los Reales Alcazares of Seville

Tuesday 9 September

Exhibitior Reception / Poster Session (included with registration fee)

18:10 School of Engineering (Escuela Superior de Ingenieros ESI)

Wednesday 10 September

Excursions (Requires pre-purchased ticket for specified excursion)

15:30 Visit to Cordoba City
Visit Italica and Carmona
Visit Jerez De La Frontera
Flamenco show with dinner

Thursday 11 September:

Banquet (Requires pre-purchased ticket)

21:00 Hacienda Ochoa

Special Meetings

Monday 8 September

Division Officers Meeting- Luncheon Meeting

12:50 to 14:30
Room 215

Regional Representatives Meeting - Luncheon Meeting

12:50 to 14:30
Room 213

Tuesday 9 September

Council Meeting -Luncheon Meeting

13:10 to 14:50
Room 209

Thursday 11 September

General Assembly

12:10 to 13:10
Main Theatre (Salón de Actos)

Division 1 Analytical Electrochemistry- Luncheon Meeting

13:10 to 14:10
Room 213

Division 2 Bioelectrochemistry- Luncheon Meeting

13:10 to 14:10
Room 214

Division 6 Molecular Electrochemistry- Luncheon Meeting

13:10 to 14:10
Room 215

General Information

Registration / Registration Fees

On Sunday 7, the Registration Desk will be located in the Rector Hall of the University, in the city center (calle San Fernando). On the other days of the Meeting the Registration Desk will be at the Engineering School (Escuela Superior de Ingenieros, (ESI), calle Camino de los descubrimientos s/n).

Registration hours during the Meeting

Sunday 7 September	15:00-20:00
Monday 8 September	08:30-13:00 and 14:00-18:30
Tuesday 9 September	08:30-13:00 and 14:00-18:30
Wednesday 10 September	09:30-13:00
Thursday 11 September	09:30-13:00 and 14:00-18:30
Friday 12 September	09:30-12:00

On site Registration Fees

Regular (ISE non-members)	480 Euros
Regular ISE members	430 Euros
Student (ISE non-members)	175 Euros
Student ISE members	140 Euros
Accompanying Persons	120 Euros

Regular and Student Registration fees include: Admission to all scientific and exhibition sessions, 4 Lunches (Monday, Tuesday, Wednesday, Thursday), Welcome Reception and Exhibition Reception, Conference bag, Program book and Abstract CD-ROM, and coffee breaks.

Accompanying Persons Registration fees include: 4 Lunches (Monday, Tuesday, Wednesday, Thursday), Welcome Reception, and Exhibition Reception.

Lunch

Lunch will be provided from Monday to Thursday with Registration Fee

Monday	12:30 – 14:10
Tuesday	12:50 – 14:30
Wednesday	13:10 – 14:30
Thursday	13:10 – 14:10

Location: Olympic Stadium, at a 10 min. walk from the Engineering School (ESI)

A Shuttle Service between ESI and the Olympic Stadium will be available from 12:30 to 14:30 from Monday to Thursday.

Coffee breaks

Mornings

Monday	10:50 – 11:10
Tuesday to Friday	11:10 – 11:30

Afternoon

Monday	16:50 – 17:10
Tuesday and Thursday	16:30 – 16:50

Exhibitors/Poster coffees

Monday	13:50 – 15:00
Tuesday and Thursday	14:10 – 15:30
Wednesday	14:30 – 15:30

Internet Service

Wireless Internet Service is provided throughout the Engineering School (ESI). Two different network connections are possible:

The **EDUROAM** connection (for those attendees coming from countries which are eduroam members, see http://www.eduroam.org) This is the preferred connection.

The **REINUS** connection (for the rest of attendees). Temporary username and password will be provided on site.

There will be some computers available for Internet connection from Monday to Friday at the ESI on the first floor (P1) at the poster area.

Publications

Meeting Abstracts will be published in electronic form (CD-ROM). A special issue of Electrochimica Acta will contain selected papers presented at the meeting and invited to be submitted before 31 October, 2008.

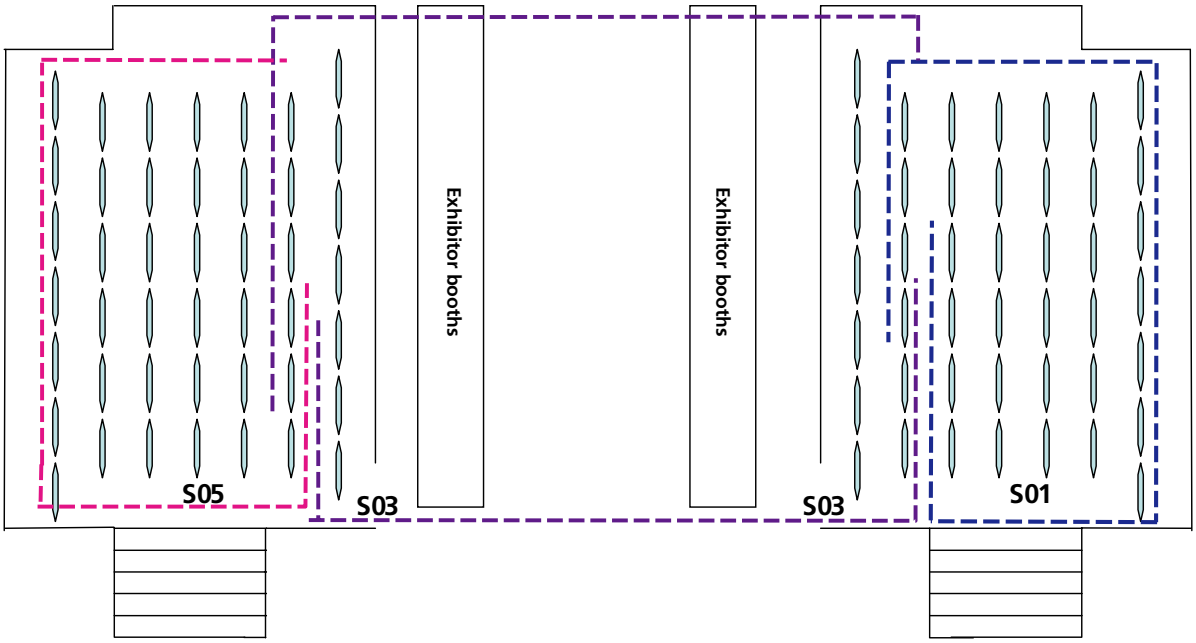
Sightseeing

Visit the "El Corte Inglés" information desk for information regarding booking additional sightseeing tours or contact "Turismo Sevilla" at http://www.turismo.sevilla.org/paginas_es/portada.asp during the conference.

Poster Session 1

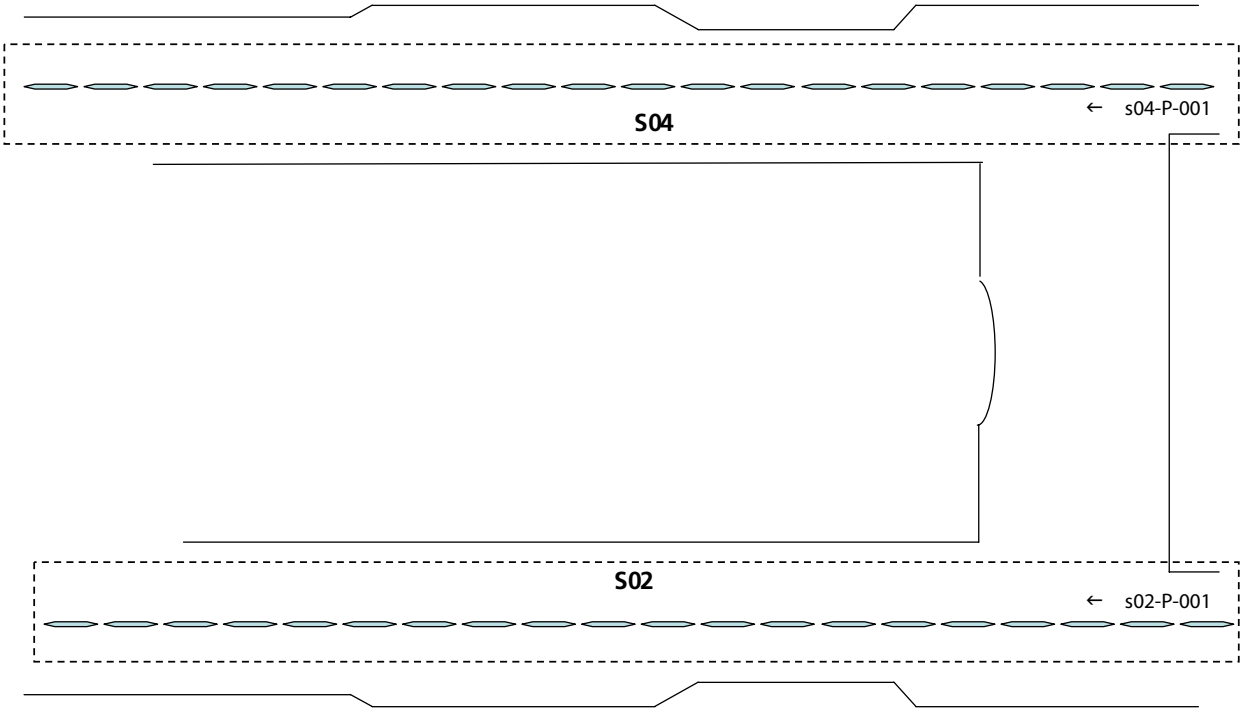
Symposium 1, 3 and 5

Monday 8 and Tuesday 9 September 2008
Ground Floor (PB)



Symposium 2 and 4

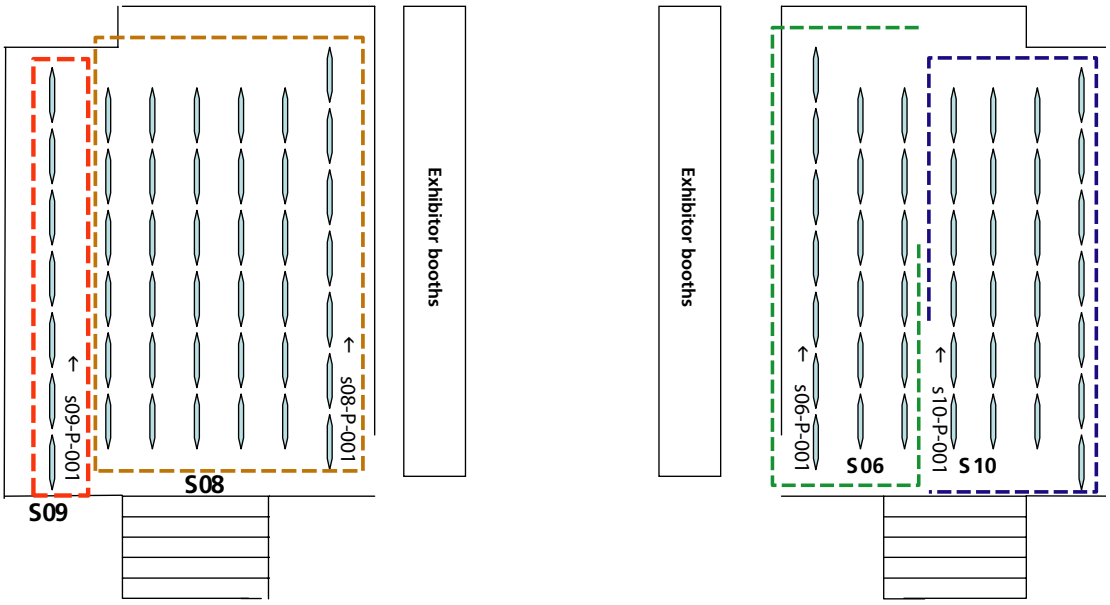
Monday 8 and Tuesday 9 September 2008
First Floor (P1)



Poster Session 2

Symposium 6, 8, 9 and 10

Wednesday 10 to Friday 12 September 2008
Ground Floor (PB)



Symposium 7

Wednesday 10 to Friday 12 September 2008
First Floor (P1)