

Program of the  
23<sup>rd</sup> Topical Meeting  
of the  
International Society of  
Electrochemistry

Electrochemistry for Investigation of Biological Objects:  
from Functional Nanomaterials to Micro/Nano-Electrodes

8-11 May 2018  
Vilnius, Lithuania

*Organized by:*  
Division 2 Bioelectrochemistry  
ISE Region Lithuania



International Society of Electrochemistry  
Chemin du Closelet 2  
1006 Lausanne  
Switzerland

Copyright © 2018

All rights reserved. No part of this work may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior written permission of the Publisher.

No responsibility is assumed by the Publisher for any injury and/or damage to persons or property as a matter of product liability, negligence or otherwise, or from any use or operation of any methods, products, instructions or ideas contained in the material herein.

Printed in Lithuania

## Organizing Committee

**Renata Bilewicz**, *Warsaw, Poland*

**Pawel Krysinski**, *Warsaw, Poland*

**Elisabeth Lojou**, *Marseille, France*

**Albertas Malinauskas**, *Vilnius, Lithuania*

**Rasa Pauliukaite**, *Vilnius, Lithuania (Chair)*

**Gintaras Valincius**, *Vilnius, Lithuania*

## Local Organizing Committee

**Asta Griguceviciene**, *FTMC, Vilnius*

**Jurgita Juodkazyte**, *FTMC, Vilnius*

**Eimutis Juzeliunas**, *KU, Klaipeda*

**Albertas Malinauskas**, *FTMC, Vilnius*

**Rimantas Ramanauskas**, *FTMC, Vilnius*

**Arunas Ramanavicius**, *VU, Vilnius*

**Eugenijus Valatka**, *KTU, Kaunas*

**Gintaras Valincius**, *VU, Vilnius*

# Table of Contents

Preliminary pages.....	i - iv
<i>Oral presentation program</i>	
Wednesday morning.....	1
Wednesday afternoon .....	3
Thursday morning.....	6
Thursday afternoon.....	8
Friday morning .....	11
Friday afternoon .....	13
<i>Poster presentation program</i> .....	13
Index.....	22

# Wednesday 9 May 2018 - Morning

---

Keynote

---

Room R106

*Chaired by: Fred Lisdat*

09:15 to 09:55 Keynote

**Plamen Atanassov** (Chemical & Biological Engineering, University of New Mexico, Albuquerque, USA)

[Functional Nano-Materials for Bio-Electrochemical Devices](#)

---

Electrochemistry for Investigation of Biological Objects

---

Room R106

*Chaired by: Jacek Lipkowski and Renata Bilenicz*

09:55 to 10:25 Invited

**Jacek Lipkowski** (Chemistry, University of Guelph, Guelph, Canada),  
Fatemeh Abbasi, J.Jay Leitch, Muzaffar Shodiev, Zhangfei Su

[Electrochemical, PM-IRRAS and AFM Studies of Ion Channels Formation by Alamethicin in Model Phospholipid Bilayers](#)

10:25 to 10:40

Coffee Break

10:40 to 11:00

**Francisco Prieto** (Department of Physical Chemistry, University of Seville, Seville, Spain), Maria L. Gonzalez-Rodriguez, Nabila Naitlho, Antonio M. Rabasco, Manuela Rueda, Marcos Vazquez-Gonzalez

[Impedance Study of Doxorubicin Reduction on Mixed Lipid Monolayer Coated Au\(111\) Electrodes: Implications for Doxorubicin Delivery](#)

11:00 to 11:20

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

[Phospholipid membranes as simple models to study the interactions with anticancer drugs](#)

11:20 to 11:40

**Ewa Nazaruk** (Chemistry Department, University of Warsaw, Warsaw, Poland), Renata Bilewicz, Damian Gawel, Marlena Godlewska, Agnieszka Majkowska-Pilip

[Towards Sustained Drug Delivery Systems - Retardation of Drug Release from Hexagonal Mesophases Measured by Voltammetry](#)

11:40 to 12:00

**Slawomir Sek** (Faculty of Chemistry, Biological & Chemical Research Centre, University of Warsaw, Warsaw, Poland), Joanna Juhaniewicz-Debinska, Dagmara Tymecka

[Mechanism of ultra-short lipopeptides action on solid supported bilayers composed of bacterial membrane lipids](#)

12:00 to 12:20

**Izabella Brand** (Department of Chemistry, Carl von Ossietzky University of Oldenburg, Oldenburg, Germany), Joanna Juhaniewicz-Debinska, Bishoy Khairalla, Slawomir Sek

[Impact of the acyl chain fluidity on the structure of models of the outer membrane of gram negative bacteria adsorbed on the gold electrode surface](#)

# Wednesday 9 May 2018 - Afternoon

---

## Electrochemistry for Investigation of Biological Objects

---

Room R106

*Chaired by: Plamen Atanassov and Christian Amatore*

13:25 to 13:45 Invited

**Gintaras Valincius** (Life Sciences Center, Vilnius University, Vilnius, Lithuania), Gintaras Dreizas, Marija Jankunec, Tadas Meskauskas, Tadas Penkauskas

[Electrochemical impedance of heterogeneous phospholipid bilayers on solid electrodes](#)

13:45 to 14:05

**Martina Zatloukalova** (Faculty of Chemistry, University of Warsaw, Warsaw, Poland), Renata Bilewicz, Ewa Nazaruk

[Activity of Transmembrane Protein Na<sup>+</sup>/K<sup>+</sup>-ATPase Hosted in Lipid Liquid Crystalline Mesophase](#)

14:05 to 14:25

**Joanna Juhaniewicz-Debinska** (Faculty of Chemistry, University of Warsaw, Warsaw, Poland), Slawomir Sek, Dagmara Tymecka

[Membrane activity of cationic antimicrobial lipopeptides](#)

14:25 to 14:45

**Pauline Lefrancois** (Institute of Molecular Sciences, University of Bordeaux, Pessac, France), Stephane Arbault, Jerome Santolini

[Electroanalysis of Enzymatic Activities Based on a Biomimetic Microreactor Strategy](#)

14:45 to 15:05

**Gunther Wittstock** (Institute of Chemistry, Carl von Ossietzky University of Oldenburg, Oldenburg, Germany), Saustin Dongmo, Carsten Dosche, Janina Leyk, Christiane Richter-Landsberg

[Local Exposure of Cells to Reactive Oxygen Species Generated at a Polymer-Modified Microelectrode in a SECM Configurations](#)

15:05 to 15:25

**Hadar Ben-Yoav** (Biomedical Engineering, Ben-Gurion University of the Negev, Beer-Sheva, Israel), Stav Biton, Avia Lavon, Alon Mazafi, Sudheesh K. Shukla, Rajendra P. Shukla

[Miniaturized Electrochemical Biosensors Integrated with Functional Bioelectronic Films for Real-Time Probing of Biomarkers in Biofluids](#)

15:25 to 15:45

**Andreas Lesch** (Laboratory of Physical and Analytical Electrochemistry, Ecole Polytechnique Federale de Lausanne, Sion, Switzerland), Sorour Darvishi, Hubert H. Girault, Tzu-En Lin

[Electrochemical bio-imaging of tissues with soft microelectrodes](#)

15:45 to 16:00

Coffee Break

*Chaired by: Gintaras Valincius and Mathieu Etienne*

16:00 to 16:20

**Araceli González-Cortés** (Analytical Chemistry, Faculty of Chemistry, University Complutense of Madrid, Madrid, Spain), Jose Manuel Pingarron, Esther Sánchez-Tirado, Paloma Yáñez-Sedeño

[Magnetic multiwalled carbon nanotubes as nanocarrier tags for the sensitive determination of fetuin in saliva](#)

16:20 to 16:40

**Rokas Zalneravicius** (Department of Electrochemistry Material Sciences, Center for Physical Sciences and Technology, Vilnius, Lithuania), Arunas Jagminas

[Ultra-small nanoparticles as efficient antibiotics](#)

16:40 to 17:00

**Haesik Yang** (Department of Chemistry, Pusan National University, Busan, Korea)

[Enzyme-Like Nanocatalyst for Ultrasensitive and Stable Biosensing](#)



17:00 to 17:20

**Paloma Yáñez-Sedeño** (Analytical Chemistry, University Complutense of Madrid, Madrid, Spain), Araceli González-Cortés, Gonzalo Martínez-García, Jose Manuel Pingarron, Esther Sánchez-Tirado

[Electrochemical bioplatfroms using carboxylated porous polymer for detection of obesity biomarkers. Application to amylin quantification](#)

17:20 to 17:40

**Susana Campuzano Ruiz** (Analytical Chemistry, Universidad Complutense de Madrid, Madrid, Spain), María Pedrero, Jose Manuel Pingarron, Eloy Povedano, A. Julio Reviejo, Víctor Ruiz-Valdepeñas Montiel, Rebeca M. Torrente-Rodríguez, Eva Vargas

[Simply handy and tailored sensitivity electrochemical DNA/RNA biosensing methodologies](#)

### Poster Session

19:30

Free walking excursion in Vilnius downtown

# Thursday 10 May 2018 - Morning

---

Keynote

---

Room R106

*Chaired by: Wolfgang Schubmann*

09:00 to 09:40 Keynote

**Ana Maria Oliveira-Brett** (Department of Chemistry, University of Coimbra, Coimbra, Portugal), Ana-Maria Chiorcea-Paquim, Victor C. Diculescu, T. Adrian Enache, S. Carlos B. Oliveira

[Protein-DNA Interactions and Protein Electrochemical Oxidation](#)

---

Electrochemistry for Investigation of Biological Objects

---

Room R106

*Chaired by: Lo Gorton and Gunther Wittstock*

09:40 to 10:10 Invited

**Jose Manuel Pingarron** (Analytical Chemistry, Universidad Complutense de Madrid, Madrid, Spain), Susana Campuzano Ruiz, Eloy Povedano, Víctor Ruiz-Valdepeñas Montiel, Rebeca M. Torrente-Rodriguez, Eva Vargas

[Electrochemical biosensing of epigenetic biomarkers for early detection of cancer](#)

10:10 to 10:25

Coffee Break

10:25 to 10:45

**Inga Morkvenaite-Vilkonciene** (Department of Electrochemical Material Science, Center for Physical Sciences and Technology, Vilnius, Lithuania)

[Application of Scanning Electrochemical Microscopy in Bioelectrochemistry](#)

10:45 to 11:05

**Michal Kizling** (College of Individual Studies in Nature Science, University of Warsaw, Warsaw, Poland), Renata Bilewicz, Maciej Dzwonek, Agnieszka Wieckowska

[Gold Clusters Smaller Than Protein Molecules Mediate Electron Transfer in Bioelectrocatalytic Reaction](#)

11:05 to 11:25

**Marius Dagys** (Life Sciences Center, Vilnius University, Vilnius, Lithuania), Juozas Kulys, Audrius Laurynenas, Liucija Marcinkeviciene, Rolandas Meskys, Gediminas Niaura, Dalius Ratautas, Sergey Shleev, Martynas Talaikis, Regina Vidziunaite

[Oxygen Electroreduction Catalysed by Laccase Wired to Gold Nanoparticles \*via\* the Trinuclear Copper Cluster](#)

11:25 to 11:45

**Mathieu Etienne** (LCPME, CNRS, Villers-les-Nancy, France), Frédéric Jorand, Elisabeth Lojou, Stephane Pinck

[Artificial Living Biocomposites to Mimic Electroactive Biofilms](#)

11:45 to 12:05

**Priscilla Baker** (Chemistry, University of the Western Cape, Bellville, South Africa), Jessica Chamier, Siyabulela Hamnca, Emmanuel Iwuoha

[Electrochemical detection of sulphonamide drugs at highly processable electrospun nanofibres of polyamic acid](#)

12:05 to 12:25

**Dmitri Ciornii** (Biosystem Technology, TH Wildau, Wildau, Germany)

[Combining photosystem I with enzymes: a competitive reaction between a photocatalytic and an enzymatic pathway](#)

# Thursday 10 May 2018 - Afternoon

---

Electrochemistry for Investigation of Biological Objects

---

Room R106

*Chaired by: Ana Oliveira-Brett and Jose Manuel Pingarron*

13:25 to 13:45 Invited

**Christian Amatore** (UMR 8640, Department of Chemistry, CNRS & ENS, Paris, France)

[Direct Electrochemical Detection of Intracellular and Subcellular Biological Events](#)

13:45 to 14:05

**Wolfgang Schuhmann** (Analytical Chemistry - Center for Electrochemical Sciences, Ruhr-Universität Bochum, Bochum, Germany), Corina Andronescu, Jan Clausmeyer, Andrzej Ernst, Miriam Marquitan, Thomas Quast, Adrian Ruff, Patrick Wilde

[Nanosized Gate-Modulated Field Effect Transistors and Amperometric Nanobiosensors](#)

14:05 to 14:25

**Stephane Arbault** (ISM, CNRS UMR5255, NSysA group, University of Bordeaux, Pessac, France), Camille Colin, Jérôme Launay, Gabriel Lemercier, Fadhila Sekli Belaidi, Neso Sojic, Pierre Temple-Boyer, Venkata S.R. Vajrala, Dodzi K. Zigah

[Microwell Array Integrating Ring Nanoelectrodes for the Monitoring of Bioenergetic Responses from Single Mitochondria](#)

14:25 to 14:45

**Alan O'Riordan** (Nanotechnology Group, Tyndall National Institute - University College Cork, Cork, Ireland), Niamh Creedon, Riona Sayers

[Agriculture 4.0: Rapid, Label-free Nano-electrochemical based Detection of Bovine Diseases in Serum](#)

14:45 to 15:05

**Emma Blundell** (Chemistry, Loughborough University, Loughborough, United Kingdom), Mark Platt

[Identifying Species-Specific Pathogens and Small Molecules Using Aptamers and Resistive Pulse Sensing](#)

15:05 to 15:25

**Masaru Kato** (Faculty of Environmental Earth Science, Hokkaido University, Sapporo, Japan), Shogo Nakagawa, Takehiko Tosha, Ichizo Yagi

[Surface-Enhanced Infrared Absorption Spectroscopy of Bacterial Nitric Oxide Reductase under Electrochemical Control](#)

15:25 to 15:45

**Xing-Hua Xia** (School of Chemistry and Chemical Engineering, Nanjing University, Nanjing, China)

[Plasmon enhanced spectroscopic and electrochemical detection of biomolecules](#)

15:45 to 16:00

Coffee Break

*Chaired by: Orlando Fatibello Filho, Priscilla Baker*

16:00 to 16:20

**Hanna Elzanowska** (Department of Chemistry, University of Warsaw, Warsaw, Poland), Dominika Janiszek, Monika M. Karpinska, Anita Kosmider, Pawel J. Kulesza, Magdalena Maj-Zurawska, Andrzej Niewiadomy

[Correlation of Spectroscopic \(UV-Vis, CD\) and Electrochemical Data with Biological Tests on Cancer Cells on the Interactions Between DNA, Pentamidine and a Prospective Anticancer Drug CI-IPBD](#)

16:20 to 16:40

**Jing-Juan Xu** (Chemistry, Nanjing University, Nanjing, China)

[Bidirectional Electrochemiluminescence Color Switch: An Application in Detecting Multi-marker of Prostate Cancer](#)

16:40 to 17:00

**Anne de Poulpiquet** (Bioenergetics and Protein Engineering, Aix-Marseille University, Marseille, France), Stephane Arbault, Laurent Bouffier, Thomas Doneux, Marie-Therese Giudici-Orticoni, Bertrand Goudeau, Artemis Kosta, Hugo Le Guenno, Pauline Lefrançois, Elisabeth Lojou

[\*In-situ\* Fluorescence Confocal Microscopy for the Study of Electrochemical and Electro-enzymatic Reactivity](#)

17:00 to 17:20

**Rosa Rego** (Chemistry Department and CQ-VR, University of Trás-os-Montes e Alto Douro, Quinta de Prados, Portugal), Filipa Amaro, Mafalda Azevedo, Nuno Vale

[Modified Carbon Black Ink-Based Electrodes to Study the Interaction of Classical Drugs with DNA](#)

17:20 to 17:40

**Gediminas Niaura** (Organic Chemistry, Center for Physical Sciences and Technology, Vilnius, Lithuania), Tatjana Charkova, Marius Dagys, Olegas Eicher-Lorka, Ilja Ignatjev, Ieva Matulaitiene, Martynas Talaikis, Agne Zdaniauskiene

[Surface Enhanced Raman Spectroscopy of Biomolecules at Electrochemical Interface](#)

17:40 to 18:00

**Miklos Gratzl** (Biomedical Engineering, Case Western Reserve University, Cleveland, USA)

[Capacitive Biofouling](#)

19:30 Banquet

# Friday 11 May 2018 - Morning

---

## Keynote

---

Room R106

*Chaired by: Christopher Brett*

09:00 to 09:40 Keynote

**Lo Gorton** (Department of Biochemistry and Structural Biology, Lund University, Lund, Sweden)

[Analytical Tools Based on Electrochemical Communication between Enzymes/Cells and Electrodes](#)

---

## Electrochemistry for Investigation of Biological Objects

---

Room R106

*Chaired by: Gediminas Niaura, Hadar Ben-Yoav*

09:40 to 10:10 Invited

**Fred Lisdat** (Biosystems Technology, Institute of Applied Life Sciences, Technical University of Applied Sciences Wildau, Wildau, Germany)

[Shining light on electrodes – applications in bioanalysis and bioenergetics](#)

10:10 to 10:25

Coffee Break

10:25 to 10:45

**Pawel Kryszinski** (Faculty of Chemistry, University of Warsaw, Warsaw, Poland), Stephen M. Baumler, Aleksandra Misicka, Dorota Niciecka, Anna Puszko

[Interactions of Mitoxantrone-Modified Superparamagnetic Iron Oxide Nanoparticles with Biomimetic Membranes and Cells](#)

10:45 to 11:05

**Ali Ozcan** (Faculty of Science, Department of Chemistry, Anadolu University, Eskisehir, Turkey), Ayca A. Ozcan

[Preparation of Conducting Polymers Modified Pencil Graphite Electrodes for the Voltammetry Applications](#)

11:05 to 11:25

**Vessela Tsakova** (Phase Formation, Crystalline and Amorphous Materials, Institute of Physical Chemistry, Bulgarian Academy of Science, Sofia, Bulgaria), Andreas Bund, Igor Efimov, Violeta Gruia, Vladimir Lyutov, Aneliya Nakova

[Poly\(3,4-ethylenedioxythiophene\) - Mechanical and Electrochemical Properties in View of Biomedical Applications](#)

11:25 to 11:45

**Christopher Brett** (Department of Chemistry, University of Coimbra, Coimbra, Portugal), Wanderson da Silva, M. Emilia Ghica

[Novel Redox Polymer and Nanomaterial-based Enzyme Inhibition Sensor Platforms](#)

11:45 to 12:05

**Ausra Baradoke** (National Center for Sensors Research, Dublin City University, Dublin, Ireland), Robert Forster, Bincy Jose, Lukas Laurinavicius, Rasa Pauliukaite

[Impedimetric Immunosensors Based on Crosslinked Antibodies to Poly-L-Lysine](#)

12:05 to 12:25

**Lital Alfonta** (Life Sciences, Ben-Gurion University of the Negev, Beer-Sheva, Israel), Itai Algov, Ashok Bhagat, Orr Schlesinger

[Redox Enzyme Engineering for Improved ET Properties](#)



# Friday 11 May 2018 - Afternoon

---

## Electrochemistry for Investigation of Biological Objects

---

Room R106

*Chaired by: Stephane Arbault and Pavel Krysiniski*

13:10 to 13:45 Invited

**Orlando Fatibello Filho** (Department of Chemistry, Federal University of São Carlos, São Carlos, Brazil)

[Carbon \(Nano\)materials for \(Bio\)sensing Applications](#)

13:45 to 14:05

**Katarzyna Krukiewicz** (Centre for Research in Medical Devices, National University of Ireland, Galway, Ireland), Manus Biggs, Agnieszka Kowalik

[Electroactive polymer coatings for neuroelectrodes: electrochemical and biological evaluation of PEDOP](#)

14:05 to 14:25

**Inga Gabriunaite** (Faculty of Chemistry and Geosciences, Vilnius University, Vilnius, Lithuania)

[Tin Oxide Based Conducting Oxide as Solid Substrate for Hybrid Bilayer Membrane Formation](#)

14:25 to 15:00

**Sarunas Zukauskas** (Physical Chemistry, Vilnius University, Vilnius, Lithuania), Gintautas Bagdziunas, Urte Bubniene, Aura Kisieliute, Lina Mikoliunaite, Almira Ramanaviciene

[Electrochemical Formation and Application of  \$\pi\$ - \$\pi\$  Conjugated Polymers](#)

15:00 to 15:20

**Kamil Wojcik** (Department of Chemistry, University of Wrocław, Wrocław, Poland), Maria Grzeszczuk

[Ion-selective 1D polypyrrole nanostructures - synthesis and characterization towards application for dopamine sensing](#)

15:20 to 15:45

**Omotayo Arotiba** (Applied Chemistry, University of Johannesburg, Johannesburg, South Africa), Azeez Idris, Nonhlangabezo Mabuba, Vanessa Mokwebo, Talifhani Mushiana, Duduzile Nkosi, Narshone Soda

[Dendrimer Based Supramolecular Nano-Architectures in Electrochemical Biosensor Design](#)

# Poster Presentations

Wednesday 18:00 to 19:30

---

## Electrochemistry of lipid membranes

---

s1-001

**Damian Dziubak** (Chemistry, Warsaw University, Warszawa, Poland),  
Slawomir Sek

[Effect of backfiller on electrochemical characteristics of sparsely tethered lipid bilayers on gold electrodes](#)

s1-002

**Lukas Laurinavicius** (Department of Nanoengineering, Center for Physical Sciences and Technology, Vilnius, Lithuania), Rasa Pauliukaite, Aneta Radzevic, Titas Sirsinaitis

[Optimization of graphene immobilization on electrode surface for application in electrochemical biosensing](#)

s1-003

Fred Lisdat (Biosystems Technology, Institute of Applied Life Sciences, Technical University Wildau, Wildau, Germany), S.C. Feifel, M. Hejazi, A. Kapp, K.R. Stieger, P. Turano, A. Zouni

[Self exchange of cytochrome c as important pre-requisite for acting as electronic conduit in photoactive electrodes](#)

s1-004

**Tadas Penkauskas** (Department of Bioelectrochemistry and Biospectroscopy, Vilnius University Life Sciences Center, Vilnius, Lithuania), Marija Jankunec, Gintaras Valincius

[Tethered Bilayer Lipid Membranes for Picomolar Detection of Pore-forming Toxins](#)

s1-005

**Edita Voitechovic** (Department of Nanoengineering, Center for Physical Sciences and Technology (FTMC), Vilnius, Lithuania), Dmitry Kirsanov, Anton Korepanov, Andrey Legin

[Application of bio-transducer assisted multisensor system in pharmaceutical production](#)

---

## Biological fuel cells

---

s2-001

**Egidijus Griskonis** (Department of Physical and Inorganic Chemistry, Kaunas University of Technology, Kaunas, Lithuania), Arminas Ilginis, Ilona Jonuskiene, Rolandas Jonynas, Kristina Kantminiene, Monika Maziukiene, Laurencas Raslavicius

[Modification of graphite felt as anode for enhanced performance of microbial fuel cells](#)

---

## Emerging applications

---

s3-001

**Abdulkadir Akyol** (Department of Metallurgy and Materials Engineering, Sakarya University, Sakarya, Turkey), Hasan Algul, Ahmet Alp, Harun Gul, Mehmet Uysal

[The Effect of Carbon Nanotubes Additive on Corrosion Behavior of Electroless Ni-P-B Coatings](#)

s3-002

**Paula Caldevilla-Collado** (R&D, DropSens, Llanera, Spain), Pablo Fanjul Bolado, María Begoña González-García, David Hernández-Santos, Daniel Martín-Yerga, Alejandro Pérez-Junquera

[Quantitative Raman Spectroelectrochemistry with screen-printed electrodes for detection of biologically-related species](#)

s3-003

**Paula Caldevilla-Collado** (R&D, DropSens, Llanera, Spain), Pablo Fanjul Bolado, María Begoña González-García, David Hernández-Santos, Marta M.P.S. Neves

[Smart Monitoring of Biochemical Analytes using Disposable Electrochemical Enzymatic Sensors](#)

s3-004

**Giin-Shan Chen** (Department of Materials Science and Engineering, Feng Chia University, Taichung, Taiwan), Yi-Lung Cheng, Jau-Shiung Fang

[Enhancement of Seeding for Electroless Cu Plating of Ta Thin-Film Electrodes by Using Alkyl Self-Assembled Monolayers](#)

s3-005

**Yi-Lung Cheng** (Department of Electrical Engineering, National Chi-Nan University, Nan-Tou, Taiwan), Chih-Yen Lee

[Comparison of Various Low Dielectric Constant Materials](#)

s3-006

**Yi-Lung Cheng** (Department of Electrical Engineering, National Chi-Nan University, Nan-Tou, Taiwan), Wei-Jie Hung, Chih-Yen Lee

[Electrical and reliability characteristics of dense and porous low-k SiCOH dielectric films by capping a SiCNH layer](#)

s3-007

**Bianca Ciui** (Analytical Chemistry Department, Faculty of Pharmacy, UMF Cluj, Cluj-Napoca, Romania), Barbara Brunetti, Cecilia Cristea, Thomas J. Dawkins, Mengjia Lyu, Aida Martin, Rupesh K. Mishra, Tatsuo Nakagawa, Robert Sandulescu, Joseph Wang

[Wearable Wireless Tyrosinase Bandage and Microneedle Sensors: Towards Melanoma Screening](#)

s3-008

**Bianca Ciui** (Analytical Chemistry Department, Faculty of Pharmacy, UMF Cluj-Napoca, Cluj-Napoca, Romania), Andreea Cernat, Cecilia Cristea, Robert Sandulescu, Mihaela Tertis

[Hybrid nanoplatform for rapid identification of \*Pseudomonas aeruginosa\* siderophore](#)

s3-009

**Aliasghar Ensafi** (Chemistry, Isfahan University of Technology, Isfahan, Iran (Islamic Republic of))

[Electrochemical Aptasensor for the Attomolar Detection of Bisphenol A Using Molecularly Imprinted Technique](#)

s3-010

**Jau-Shiung Fang** (Materials Science and Engineering, National Formosa University, Huwei, Taiwan), Giin-Shan Chen, Y.L. Cheng, C.H. Hsu, S.M. Wang, J.Y. Wong

[Cu film fabrication via pulse underpotential deposition of Pb and surface-limited redox replacement of Cu on trenched Ru/SiO<sub>2</sub>/Si](#)

s3-011

**Paula M. V. Fernandes** (Chemistry and Biochemistry, Faculty of Sciences of the University of Porto, Porto, Portugal), José M. Campiña, António F. Silva

[Nanocomposite Films of Reduced Graphene Oxide – Fe<sup>3</sup>O<sub>4</sub>/ Biopolymer/Lacasse for the Ultrasensitive Determination of Bisphenol A](#)

s3-012

**Miklos Gratzl** (Biomedical Engineering, Case Western Reserve University, Cleveland, USA), Tamas Cserfalvi, Kihwan Kim

[Absolute Diagnosis of Cystic Fibrosis in Newborns](#)

s3-013

**Asta Griguzeviciene** (Department of Electrochemical Material Science, Center for Physical Sciences and Technology, Vilnius, Lithuania), Dalia Bucinskiene, Eimutis Juzeliunas, Konstantinas Leinartas, Laurynas Staisiunas

[Corrosion of AZ31 alloy coated with ALD-grown HfO<sub>2</sub> in Hanks' solution and atmosphere](#)

s3-014

**Katarzyna Jakubow** (Department of Chemistry, University of Warsaw, Warsaw, Poland), Barbara Kowalewska

[Electrochemical and Spectroscopic Studies of Oxidase Enzymes Immobilized on 4-\(pyrrole-1-yl\) Benzoic Acid Functionalized Carbon Nanotubes](#)

s3-015

**Vassilena Karabozhikova** (Institute of Physical Chemistry, Bulgarian Academy of Sciences, Sofia, Bulgaria), Vessela Tsakova

[Caffeic Acid Oxidation on Poly\(3,4-ethylenedioxythiophene\)-Modified Electrodes](#)

s3-016

**Katarzyna Krukiewicz** (Department of Physical Chemistry and Technology of Polymers, Silesian University of Technology, Gliwice, Poland), Beata Cwalina, Dominika Czerwinska

[Electrochemical impedance analysis on drug-loaded conducting polymer matrices](#)

s3-017

**Thi Xuan Huong Le** (LCPME, CNRS, Villers-les-Nancy, France), Alain Celzard, Mathieu Etienne, Alain Hehn, Francois Lapique

[Functionalization of Biomolecules by Cytochromes P450 Immobilized on a Porous Electrode](#)

s3-018

**Hsin-Yi Lee** (Research Division, National Synchrotron Radiation Research Center, Hsinchu, Taiwan), San-Yuan Chen, Sz-Chian Liou

[Characteristics of nano-sized calcium deficient apatite powders](#)

s3-019

**Tadas Matijošius** (Electrochemical Material Science, Center for Physical Sciences and Technology, Vilnius, Lithuania), Svajus Asadauskas, Ignas Valsiunas

[Anodization of Al Alloy in Phosphoric Electrolyte for Friction Reduction](#)

s3-020

**Biljana Mitrova** (Institute for Biochemistry and Biology, University of Potsdam, Potsdam, Germany), Tobias Hartmann, Silke Leimkuehler, Ulla Wollenberger

[Reversible Formate/CO<sub>2</sub> Bioelectrocatalysis by Immobilized Oxygen Tolerant Formate Dehydrogenase](#)

s3-021

**Bettina Neumann** (Institute for Biochemistry and Biology, University of Potsdam, Potsdam, Germany), Robert Goetz, Frieder W. Scheller, Johannes Schmidt, Matthias Schwalbe, Arne Thomas, Inez M. Weidinger, Ulla Wollenberger

[Electrocatalytic Activity of Electropolymerized Iron Porphyrin Based Layers](#)

s3-022

**Min-Ah Oh** (Chemistry, Seoul National University, Seoul, Korea), Wonkyung Cho, Taek Dong Chung, Joohee Jeon

[Neuroigin-1 Functionalized Microbeads Induce Presynaptic Differentiation in Brain Slice Model](#)

s3-023

**Ali Ozcan** (Faculty of Science, Department of Chemistry, Anadolu University, Eskisehir, Turkey), Ayca A. Ozcan

[Preparation of an Electrochemically Modified Disposable Graphite Electrode for Bisphenol-A Sensing](#)

s3-024

**Piotr Piotrowski** (Faculty of Chemistry, University of Warsaw, Warsaw, Poland), Katarzyna Jakubow, Andrzej Kaim, Barbara Kowalewska

[Gold Nanoparticles Functionalized with C<sub>20</sub> Fullerene Derivative for Construction of Hybrid Glucose Biosensing System](#)

s3-025

**Aneta Radzevic** (Department of Nanoengineering, Center for Physical Sciences and Technology, Vilnius, Lithuania), Rasa Pauliukaite

[Electrocopolymerization of B-Group Vitamins on Carbon Electrodes](#)

s3-026

**José Ribeiro** (Department of Chemistry and Biochemistry, Sciences Faculty of Porto, Porto, Portugal), Carlos M. Pereira, M. Goreti F. Sales, António F. Silva

[Disposable Electrochemical Detection of Breast Cancer Tumour Marker CA 15-3 Using Poly\(Toluidine Blue\) as Imprinted Polymer Receptor](#)

s3-027

**José Ribeiro** (Department of Chemistry and Biochemistry, Sciences Faculty of Porto, Porto, Portugal), Carlos M. Pereira, Tânia S.C.R. Rebelo, António F. Silva

[Electrochemical Biosensor Based on Imprinted Material for Amylase Detection](#)

s3-028

**Caroline G. Sanz** (Instituto de Química, Universidade de São Paulo, São Paulo, Brazil), Christopher Brett, Silvia Helena Pires Serrano

[Electrochemical Characterization of  \$\beta\$ -lactam Antibiotics at Glassy Carbon and Carbon Nanomaterial Modified Electrodes](#)

s3-029

**Rajendra P. Shukla** (Biomedical Engineering, Ben-Gurion University of the Negev, Beer sheva, Israel), Hadar Ben-Yoav, Sudheesh K. Shukla

[Reduced Graphene Oxide-Modified Microelectrodes for Antipsychotic Clozapine Detection in Serum](#)

s3-030

**Povilas Simonis** (Laboratory of Bioelectrochemistry, Center for Physical Sciences and Technology, Vilnius, Lithuania), Rasa Garjonyte, Arunas Stirke

[Investigation of a Pulsed Electric Field Effects on \*Saccharomyces cerevisiae\* Cells Using Mediated Amperometry](#)

s3-031

**Ting-Kan Tsai** (Department of Materials Science and Engineering, National Formosa University, Huwei, Yunlin, Taiwan)

[Preparation of PdNi/Al<sub>2</sub>O<sub>3</sub> composite membranes by electroless co-deposition](#)

s3-032

**Agne Zdaniauskiene** (Department of Organic Chemistry, Center for Physical Sciences and Technology, Vilnius, Lithuania), Tatjana Charkova, Olegas Eicher-Lorka, Algirdas Matijoska, Ieva Matulaitiene, Gediminas Niaura, Algirdas Selskis, Martynas Skapas

[\*In Situ\* Electrochemical SHINERS Study of the Positive Charge Bearing Pyridinium Ring Terminated Monolayer at Smooth Gold Electrode](#)

---

Other

---

s4-001

**Justina Gaidukevic** (Faculty of Chemistry and Geosciences, Vilnius University, Vilnius, Lithuania), Ruta Aukstakojyte, Jurgis Barkauskas, Vidute Gureviciene, Valdas Laurinavicius, Julija Razumiene, Ieva Sakinyte

[Graphene/\(SCN\)<sub>n</sub> Nanocomposite Materials: Synthesis, Structural Characterization and Electrochemical Application](#)

s4-002

**Minsoo Ji** (Department of Chemistry, University of Ulsan, Ulsan, Korea), Youngil Lee, Laxman Singh

[Synthesis of aluminum substituted  \$\text{Li}^3\text{V}\_2\(\text{BO}\_3\)\_3\$  as a cathode material for Li-ion battery](#)

s4-003

**Daina Upskuviene** (Department of Catalysis, Center for Physical Sciences and Technology, Vilnius, Lithuania), Virginija Kepeniene, Algirdas Selskis, Loreta Tamasauskaite-Tamasiunaite

[Synthesis of carbon supported Au nanoparticles for glucose electro-oxidation](#)

s4-004

**Dmitri Ciornii** (Biosystem Technology, TH Wildau, Wildau, Germany)

[Implementation of functionalized Fullerene- \$\text{C}\_{70}\$  for connecting Photosystem I with electrodes](#)

s4-005

**Tomas Sabirovas** (Faculty of Chemistry and Geosciences, Vilnius University, Vilnius, Lithuania)

[Electrochemical Study of Hybrid Bilayer Formation on polished Titanium Surface](#)

s4-006

**Ausra Baradoke** (Department of Analytical and Food Chemistry, University of Vigo, Vigo, Spain), Elisa Gonzalez-Romero, Isabel Pastoriza-Santos

[Catalytic Activity of Ruthenium Nanoparticles for NADH Sensing](#)

s4-007

**Sarunas Zukauskas** (Department of Physical Chemistry, Vilnius University, Vilnius, Lithuania) Gintautas Bagdziunas, Arunas Ramanavicius

[Application Hole Transporting Organic Semiconductors for Biosensors](#)



s4-008

Hadar Ben-Yoav (Biomedical Engineering, Ben-Gurion University of the Negev, Beer-Sheva, Israel) Alon Mazafi

[Intelligent Multi-Electrode Array for Simultaneous Detection of Neurotransmitters Dopamine and Norepinephrine in Urine](#)

# Index

---

## A

- Abbasi, Fatemeh, (*Wed*)09:55  
Akyol, Abdulkadir, *s3-001*  
Alfonta, Lital, (*Fri*)12:05  
Algov, Itai, (*Fri*)12:05  
Algul, Hasan, *s3-001*  
Alp, Ahmet, *s3-001*  
Amaro, Filipa, (*Thu*)17:00  
Amatore, Christian, (*Thu*)13:25  
Andronesco, Corina, (*Thu*)13:45  
Arbault, Stephane, (*Wed*)14:25, (*Thu*)14:05,  
(*Thu*)16:40  
Arotiba, Omotayo, (*Fri*)15:25  
Asadauskas, Svajus, *s3-019*  
Atanassov, Plamen, (*Wed*)09:15  
Aukstakojyte, Ruta, *s4-001*  
Azevedo, Mafalda, (*Thu*)17:00

## B

- Bagdziunas, Gintautas, (*Fri*)14:45  
Baker, Priscilla, (*Thu*)11:45  
Baradoke, Ausra, (*Fri*)11:45  
Barkauskas, Jurgis, *s4-001*  
Baumler, Stephen M., (*Fri*)10:25  
Ben-Yoav, Hadar, (*Wed*)15:05, *s3-029*  
Bhagat, Ashok, (*Fri*)12:05  
Biggs, Manus, (*Fri*)13:45  
Bilewicz, Renata, (*Wed*)11:00, (*Wed*)11:20,  
(*Wed*)13:45, (*Thu*)10:45  
Biton, Stav, (*Wed*)15:05  
Blundell, Emma, (*Thu*)14:45  
Bouffier, Laurent, (*Thu*)16:40  
Brand, Izabella, (*Wed*)12:00  
Brett, Christopher, (*Fri*)11:25, *s3-028*  
Brunetti, Barbara, *s3-007*  
Bubniene, Urte, (*Fri*)14:45  
Bucinskiene, Dalia, *s3-013*  
Bund, Andreas, (*Fri*)11:05

## C

- Caldevilla-Collado, Paula, *s3-002*, *s3-003*  
Campaña, José M., *s3-011*  
Campuzano Ruiz, Susana, (*Wed*)17:20,  
(*Thu*)09:40

- Celzard, Alain, *s3-017*  
Cernat, Andreea, *s3-008*  
Chamier, Jessica, (*Thu*)11:45  
Charkova, Tatjana, (*Thu*)17:20, *s3-032*  
Chen, Giin-Shan, *s3-004*, *s3-010*  
Chen, San-Yuan, *s3-018*  
Cheng, Yi-Lung, *s3-004*, *s3-005*, *s3-006*,  
*s3-010*  
Chiorcea-Paquim, Ana-Maria, (*Thu*)09:00  
Cho, Wonkyung, *s3-022*  
Chung, Taek Dong, *s3-022*  
Ciornii, Dmitri, *s4-004*  
Ciui, Bianca, *s3-007*, *s3-008*  
Clausmeyer, Jan, (*Thu*)13:45  
Colin, Camille, (*Thu*)14:05  
Creedon, Niamh, (*Thu*)14:25  
Cristea, Cecilia, *s3-007*, *s3-008*  
Cserfalvi, Tamas, *s3-012*  
Cwalina, Beata, *s3-016*  
Czerwinska, Dominika, *s3-016*

## D

- da Silva, Wanderson, (*Fri*)11:25  
Dagys, Marius, (*Thu*)11:05, (*Thu*)17:20  
Darvishi, Sorour, (*Wed*)15:25  
Dawkins, Thomas J., *s3-007*  
de Poulpiquet, Anne, (*Thu*)16:40  
Diculescu, Victor C., (*Thu*)09:00  
Doneux, Thomas, (*Thu*)16:40  
Dongmo, Saustin, (*Wed*)14:45  
Dosche, Carsten, (*Wed*)14:45  
Dreizas, Gintaras, (*Wed*)13:25  
Dziubak, Damian, *s1-001*  
Dzwonek, Maciej, (*Thu*)10:45

## E

- Efimov, Igor, (*Fri*)11:05  
Eicher-Lorka, Olegas, (*Thu*)17:20, *s3-032*  
Elzanowska, Hanna, (*Thu*)16:00  
Enache, T. Adrian, (*Thu*)09:00  
Ensafi, Aliasghar, *s3-009*  
Ernst, Andrzej, (*Thu*)13:45  
Etienne, Mathieu, (*Thu*)11:25, *s3-017*

**F**

Fang, Jau-Shiung, *s3-004, s3-010*  
 Fanjul Bolado, Pablo, *s3-002, s3-003*  
 Fatibello Filho, Orlando, *(Fri)13:10*  
 Feifel, S.C., *s1-003*  
 Fernandes, Paula M. V., *s3-011*  
 Forster, Robert, *(Fri)11:45*

**G**

Gabriunaite, Inga, *s4-006*  
 Gaidukevic, Justina, *s4-001*  
 Garjonyte, Rasa, *s3-030*  
 Gawel, Damian, *(Wed)11:20*  
 Ghica, M. Emilia, *(Fri)11:25*  
 Girault, Hubert H., *(Wed)15:25*  
 Giudici-Ortoniconi, Marie-Therese,  
*(Thu)16:40*  
 Godlewska, Marlena, *(Wed)11:20*  
 Goetz, Robert, *s3-021*  
 González-Cortés, Araceli, *(Wed)16:00,*  
*(Wed)17:00*  
 González-García, María Begoña, *s3-002,*  
*s3-003*  
 Gonzalez-Rodriguez, Maria L., *(Wed)10:40*  
 Gonzalez-Romero, Elisa, *(Thu)14:05*  
 Gorton, Lo, *(Fri)09:00*  
 Goudeau, Bertrand, *(Thu)16:40*  
 Gratzl, Miklos, *(Thu)17:40, s3-012*  
 Griguceviciene, Asta, *s3-013*  
 Griskonis, Egidijus, *s2-001*  
 Gruia, Violeta, *(Fri)11:05*  
 Grzeszczuk, Maria, *(Fri)15:05*  
 Gul, Harun, *s3-001*  
 Gureviciene, Vidute, *s4-001*

**H**

Hamnca, Siyabulela, *(Thu)11:45*  
 Hartmann, Tobias, *s3-020*  
 Hehn, Alain, *s3-017*  
 Hejazi, M., *s1-003*  
 Hernández-Santos, David, *s3-002, s3-003*  
 Hsu, C.H., *s3-010*  
 Hung, Wei-Jie, *s3-006*

**I**

Ignatjev, Ilja, *(Thu)17:20*  
 Ilginis, Arminas, *s2-001*  
 Iwuoha, Emmanuel, *(Thu)11:45*

**J**

Jagminas, Arunas, *(Wed)16:20*  
 Jakubow, Katarzyna, *s3-014, s3-024*  
 Janiszek, Dominika, *(Thu)16:00*  
 Jankunec, Marija, *(Wed)13:25, s1-004*  
 Jeon, Joohee, *s3-022*  
 Ji, Minsoo, *s4-002*  
 Jonuskiene, Ilona, *s2-001*  
 Jonynas, Rolandas, *s2-001*  
 Jorand, Frédéric, *(Thu)11:25*  
 Jose, Bincy, *(Fri)11:45*  
 Juhaniwicz-Debinska, Joanna, *(Wed)11:40,*  
*(Wed)12:00, (Wed)14:05*  
 Juzeliunas, Eimutis, *s3-013*

**K**

Kaim, Andrzej, *s3-024*  
 Kantminiene, Kristina, *s2-001*  
 Kapp, A., *s1-003*  
 Karabozhikova, Vassilena, *s3-015*  
 Karpinska, Monika M., *(Thu)16:00*  
 Kato, Masaru, *(Thu)15:05*  
 Kepeniene, Virginija, *s4-003*  
 Khairalla, Bishoy, *(Wed)12:00*  
 Kim, Kihwan, *s3-012*  
 Kirsanov, Dmitry, *s1-005*  
 Kisieliute, Aura, *(Fri)14:45*  
 Kizling, Michal, *(Thu)10:45*  
 Korepanov, Anton, *s1-005*  
 Kosmider, Anita, *(Thu)16:00*  
 Kosta, Artemis, *(Thu)16:40*  
 Kowalewska, Barbara, *s3-014, s3-024*  
 Kowalik, Agnieszka, *(Fri)13:45*  
 Krukiewicz, Katarzyna, *(Fri)13:45, s3-016*  
 Kryszynski, Pawel, *(Fri)10:25*  
 Kulesza, Pawel J., *(Thu)16:00*  
 Kulys, Juozas, *(Thu)11:05*

**L**

Lapicque, Francois, *s3-017*  
 Launay, Jérôme, *(Thu)14:05*  
 Laurinavicius, Lukas, *(Fri)11:45, s1-002*  
 Laurinavicius, Valdas, *s4-001*  
 Laurynenas, Audrius, *(Thu)11:05*  
 Lavon, Avia, *(Wed)15:05*  
 Le Guenno, Hugo, *(Thu)16:40*  
 Le, Thi Xuan Huong, *s3-017*  
 Lee, Chih-Yen, *s3-005, s3-006*

Lee, Hsin-Yi, *s3-018*  
 Lee, Youngil, *s4-002*  
 Lefrancois, Pauline, (*Wed*)14:25, (*Thu*)16:40  
 Legin, Andrey, *s1-005*  
 Leimkuehler, Silke, *s3-020*  
 Leinartas, Konstantinas, *s3-013*  
 Leitch, J.Jay, (*Wed*)09:55  
 Lemerrier, Gabriel, (*Thu*)14:05  
 Lesch, Andreas, (*Wed*)15:25  
 Leyk, Janina, (*Wed*)14:45  
 Lin, Tzu-En, (*Wed*)15:25  
 Liou, Sz-Chian, *s3-018*  
 Lipkowski, Jacek, (*Wed*)09:55  
 Lisdat, Fred, (*Fri*)09:40, *s1-003*  
 Lojou, Elisabeth, (*Thu*)11:25, (*Thu*)16:40  
 Lyu, Mengjia, *s3-007*  
 Lyutov, Vladimir, (*Fri*)11:05

## M

Maj-Zurawska, Magdalena, (*Thu*)16:00  
 Majkowska-Pilip, Agnieszka, (*Wed*)11:20  
 Marcinkeviciene, Liucija, (*Thu*)11:05  
 Marquitan, Miriam, (*Thu*)13:45  
 Martin, Aida, *s3-007*  
 Martín-Yerga, Daniel, *s3-002*  
 Martínez-García, Gonzalo, (*Wed*)17:00  
 Matijoska, Algirdas, *s3-032*  
 Matijosius, Tadas, *s3-019*  
 Matulaitiene, Ieva, (*Thu*)17:20, *s3-032*  
 Matyszewska, Dorota, (*Wed*)11:00  
 Mazafi, Alon, (*Wed*)15:05  
 Maziukiene, Monika, *s2-001*  
 Meskauskas, Tadas, (*Wed*)13:25  
 Meskys, Rolandas, (*Thu*)11:05  
 Mikoliunaite, Lina, (*Fri*)14:45  
 Mishra, Rupesh K., *s3-007*  
 Misicka, Aleksandra, (*Fri*)10:25  
 Mitrova, Biljana, *s3-020*  
 Morkvenaite-Vilkonciene, Inga, (*Thu*)10:25

## N

Naitlho, Nabila, (*Wed*)10:40  
 Nakagawa, Shogo, (*Thu*)15:05  
 Nakagawa, Tatsuo, *s3-007*  
 Nakova, Aneliya, (*Fri*)11:05  
 Nazaruk, Ewa, (*Wed*)11:20, (*Wed*)13:45  
 Neumann, Bettina, *s3-021*  
 Neves, Marta M.P.S., *s3-003*

Niaura, Gediminas, (*Thu*)11:05, (*Thu*)17:20,  
*s3-032*  
 Niececka, Dorota, (*Fri*)10:25  
 Niewiadomy, Andrzej, (*Thu*)16:00

## O

O'Riordan, Alan, (*Thu*)14:25  
 Oh, Min-Ah, *s3-022*  
 Oliveira, S. Carlos B., (*Thu*)09:00  
 Oliveira-Brett, Ana Maria, (*Thu*)09:00  
 Ozcan, Ali, (*Fri*)10:45, *s3-023*  
 Ozcan, Ayca A., (*Fri*)10:45, *s3-023*

## P

Pastoriza-Santos, Isabel, (*Fri*)14:05  
 Pauliukaite, Rasa, (*Fri*)11:45, *s1-002*, *s3-025*  
 Pedrero, María, (*Wed*)17:20  
 Penkauskas, Tadas, (*Wed*)13:25, *s1-004*  
 Pereira, Carlos M., *s3-026*, *s3-027*  
 Pérez-Junquera, Alejandro, *s3-002*  
 Pinck, Stephane, (*Thu*)11:25  
 Pingarron, Jose Manuel, (*Wed*)16:00,  
 (*Wed*)17:00, (*Wed*)17:20, (*Thu*)09:40  
 Piotrowski, Piotr, *s3-024*  
 Platt, Mark, (*Thu*)14:45  
 Povedano, Eloy, (*Wed*)17:20, (*Thu*)09:40  
 Prieto, Francisco, (*Wed*)10:40  
 Puzsko, Anna, (*Fri*)10:25

## Q

Quast, Thomas, (*Thu*)13:45

## R

Rabasco, Antonio M., (*Wed*)10:40  
 Radzevic, Aneta, *s1-002*, *s3-025*  
 Ramanaševiciene, Almira, (*Fri*)14:45  
 Raslavicius, Laurencas, *s2-001*  
 Ratautas, Dalius, (*Thu*)11:05  
 Razumiene, Julija, *s4-001*  
 Rebelo, Tânia S.C.R., *s3-027*  
 Rego, Rosa, (*Thu*)17:00  
 Reviejo, A. Julio, (*Wed*)17:20  
 Ribeiro, José, *s3-026*, *s3-027*  
 Richter-Landsberg, Christiane, (*Wed*)14:45  
 Rueda, Manuela, (*Wed*)10:40  
 Ruff, Adrian, (*Thu*)13:45  
 Ruiz-Valdepeñas Montiel, Víctor,  
 (*Wed*)17:20, (*Thu*)09:40

**S**

Sabirovas, Tomas, *s4-005*  
SakinYTE, Ieva, *s4-001*  
Sales, M. Goreti F., *s3-026*  
Salimi, Abdollah, *(Thu)12:05*  
Sánchez-Tirado, Esther, *(Wed)16:00,*  
*(Wed)17:00*  
Sandulescu, Robert, *s3-007, s3-008*  
Santolini, Jerome, *(Wed)14:25*  
Sanz, Caroline G., *s3-028*  
Sayers, Riona, *(Thu)14:25*  
Scheller, Frieder W., *s3-021*  
Schlesinger, Orr, *(Fri)12:05*  
Schmidt, Johannes, *s3-021*  
Schuhmann, Wolfgang, *(Thu)13:45*  
Schwalbe, Matthias, *s3-021*  
Sek, Slawomir, *(Wed)11:40, (Wed)12:00,*  
*(Wed)14:05, s1-001*

Sekli Belaïdi, Fadhila, *(Thu)14:05*  
Selskis, Algirdas, *s3-032, s4-003*  
Serrano, Silvia Helena Pires, *s3-028*  
Shleev, Sergey, *(Thu)11:05*  
Shodiev, Muzaffar, *(Wed)09:55*  
Shukla, Rajendra P., *(Wed)15:05, s3-029*  
Shukla, Sudheesh K., *(Wed)15:05, s3-029*  
Silva, António F., *s3-011, s3-026, s3-027*  
Simonis, Povilas, *s3-030*  
Singh, Laxman, *s4-002*  
Sirsinaitis, Titas, *s1-002*  
Skapas, Martynas, *s3-032*  
Sojic, Neso, *(Thu)14:05*  
Staisiunas, Laurynas, *s3-013*  
Stieger, K.R., *s1-003*  
Stirke, Arunas, *s3-030*  
Su, Zhangfei, *(Wed)09:55*

**T**

Talaikis, Martynas, *(Thu)11:05, (Thu)17:20*  
Tamasauskaite-Tamasiunaite, Loreta, *s4-003*  
Temple-Boyer, Pierre, *(Thu)14:05*  
Tertis, Mihaela, *s3-008*  
Thomas, Arne, *s3-021*  
Torrente-Rodriguez, Rebeca M.,  
*(Wed)17:20, (Thu)09:40*  
Tosha, Takehiko, *(Thu)15:05*

Tsai, Ting-Kan, *s3-031*  
Tsakova, Vessela, *(Fri)11:05, s3-015*  
Turano, P., *s1-003*  
Tymcecka, Dagmara, *(Wed)11:40, (Wed)14:05*

**U**

Upskuviene, Daina, *s4-003*  
Uysal, Mehmet, *s3-001*

**V**

Vajrala, Venkata S.R., *(Thu)14:05*  
Vale, Nuno, *(Thu)17:00*  
Valincius, Gintaras, *(Wed)13:25, s1-004*  
Valsišūnas, Ignas, *s3-019*  
Vargas, Eva, *(Wed)17:20, (Thu)09:40*  
Vazquez-Gonzalez, Marcos, *(Wed)10:40*  
Vidziunaite, Regina, *(Thu)11:05*  
Voitechovic, Edita, *s1-005*

**W**

Wang, Joseph, *s3-007*  
Wang, S.M., *s3-010*  
Weidinger, Inez M., *s3-021*  
Wieckowska, Agnieszka, *(Thu)10:45*  
Wilde, Patrick, *(Thu)13:45*  
Wittstock, Gunther, *(Wed)14:45*  
Wojcik, Kamil, *(Fri)15:05*  
Wollenberger, Ulla, *s3-020, s3-021*  
Wong, J.Y., *s3-010*

**X**

Xia, Xing-Hua, *(Thu)15:25*  
Xu, Jing-Juan, *(Thu)16:20*

**Y**

Yagi, Ichizo, *(Thu)15:05*  
Yáñez-Sedeño, Paloma, *(Wed)16:00,*  
*(Wed)17:00*  
Yang, Haesik, *(Wed)16:40*

**Z**

Zalneravicius, Rokas, *(Wed)16:20*  
Zatloukalova, Martina, *(Wed)13:45*  
Zdaniauskiene, Agne, *(Thu)17:20, s3-032*  
Zigah, Dodzi K., *(Thu)14:05*  
Zouni, A., *s1-003*  
Zukauskas, Sarunas, *(Fri)14:45*



NEW

# Single and multi-channel Potentiostat / Galvanostat Impedance Analyzer

*Multi* PalmSens4™  
Available with 4 to 10 channels



PalmSens4™



## Main specifications:

- FRA / EIS: 10  $\mu$ Hz to **1 MHz**
- 9 current ranges: 100 pA to 10 mA
- High resolution of 0.006% (full scale range)
- **$\pm 10$  V** dc-potential range at 75  $\mu$ V resolution
- Never lose data with **4 GB** internal storage

[www.palmsens.com](http://www.palmsens.com)

ENTRANCE

