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4th International Conference on

# Electrochemistry

June 11-12, 2018 Rome, Italy

## Scientific Program

### Day 1 June 11, 2018

**Hall Name**

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|---|---|
| 08:30-09:30 | Registrations |
| 09:30-09:50 | Opening Ceremony |
| 09:50-10:00 | Introduction |
| | **Keynote Session** |
| 10:00-10:30 | Title: How neutrons as a probe for in situ and in operando measurements support the understanding of electrochemistry in Li-ion battery research |
| | **Ralph Gilles,** Technical University Muenchen, Germany |
| 10:30-11:00 | Title: Polyelectrolyte multilayer assemblies and brushes on reduced graphene oxide field-effect transistors for sensing applications |
| | **Wolfgang Knoll,** Austrian Institute of Technology, Austria |
| | **Group Photo** |
| | **Coffee Break 11:00-11:15 @ Foyer** |
| | **Sessions: Theoretical and Computational Electrochemistry\| Batteries and Energy Storage\| Sensors\| Physical and Analytical Electrochemistry\| Photoelectrochemistry\| Electrochemical Energy\|Electrochemical Engineering\| Electrochemical Water Treatment\| Electronic Materials and Processing\| Dielectric Science and Materials** |
| Chair | Will be updated soon |
| Co-Chair | Will be updated soon |
| 11:15-11:35 | Title: Design and development of catalyst materials for the production of fuels and chemicals in a sustainable manner |
| | **Thomas F. Jaramillo,** Stanford University, USA |
| 11:35-11:55 | Title: Interfacially engineering topological semimetal MoP into a superior electrocatalyst for hydrogen evolution |
| | **Guowei Li,** Max Planck Institute for Chemical Physics of Solids, Germany |
| 11:55-12:15 | Title: Electrochemistry of Bipolar s-Tetrazine Derivatives |
| | **Mieczyslaw Lapkowski,** University of Technology, Gliwice, Poland |
| 12:15-12:35 | Title: Computational modeling and studies of hydroxyapatite with defects of the oxygen vacancy type providing its photocatalytic activity |
| | **Vladimir S Bystrov,** Institute of Mathematical Problems of Biology RAS, Russia |
| 12:35-12:55 | Title: Electrochemical regulation of the acidity in miniaturized electrochemical cells: The route to increase flexibility and multiplexing of chemical control |
| | **César Pascual-García**, Luxembourg Institute of Science and Technology, Luxembourg |
| | **Lunch 12:55-13:40** |

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| 13:40-14:00 | **Title: Integration of Functional Liquids in Solid-State Electronic Circuits** |
| | **Evangelos Fillis-Tsirakis,** Max Planck Institute for Solid State Research, Stuttgart, Germany |
| 14:00-14:20 | **Title: (Electro)chemical water disinfection – challenges for the 21st century** |
| | **Henry Bergmannm,** Anhalt University, Köthen, Germany |
| 14:20-14:40 | **Title: Oxygen evolution reaction at the surface of nickel cobaltites: the impact of surface restructuring phenomena on the activity.** |
| | **Aurelien Habrioux,** University of Poitiers, France |
| 14:40-15:00 | **Title: New poly(3,4-ethylenedioxythiophene) Coatings for Neural Recording and Stimulation** |
| | **StefanoCarli ,** Italian Institute of Technology,Italy |
| 15:20-15:40 | **Title: Verification of Photo-splitting of H2O to HOOH and H2 as initial photoproducts** |
| | **Shozo Yanagida,** Osaka University, Japan |
| 15:40-16:00 | **Title:Electrodialysis and Electrodeionization applied to remove Cr (III)** |
| | **Lucia Alvarado,** Guanajuato University, Mexico |
| **Coffee Break 16:00-16:15 @ Foyer** | |
| 16:15-16:35 | **Title: Immunosensor for Label-Free PSA Cancer Detection on GQDs-AuNRs Modified Screen-Printed Electrodes** |
| | **Rajiv Prakash,** Banaras Hindu University, India |
| 16:35-16:55 | **Title: The Impact of M. Faraday's Work on the Development of Natural Science** |
| | **Essen N. Suleimenov**, Institute of Metallurgy and Ore Benefication, Kazakhstan |
| | **Panel Disscussion** |
| **Day 2 June12, 2018** | |
| | **Hall Name** |
| | **Keynote Session** |
| 9:30-10:00 | **Title: The connection between chemistry and electric function in solids** |
| | **Joachim Maier,** Max Planck Institute for Solid State Research, Germany |
| 10:00-10:30 | **Title: Interfacial effects and charge carrier chemistry in lithium electrolytes** |
| | **Jelena Popovic,** Max Planck Institute for Solid State Research, Germany |
| **Coffee Break 10:30-10:45 @ Foyer** | |
| | **Sessions** |
| **Sessions: Environmental Electrochemistry I Electronic Materials and Processing I Electronic Materials and Processing** | |
| **Chair** | **Will be updated soon** |
| **Co-Chair** | **Will be updated soon** |
| 10:45-11:05 | **Title: Novel Manganese Dioxide-based Electrocatalyst Formulations for Bifunctional Oxygen Reduction and Evolution Reaction Activity** |
| | **Elod Gyenge**, University of British Columbia, Canada |
| 11:05-11:25 | **Title: Calcareous electrochemical precipitation, a new method to trap dissolved metallic contaminants in seawater** |
| | **Peggy Gunkel-Grillona,** University of New-Caledonia, France |
| 11:25-11:45 | **Title: Ce0.8Gd0.2O1.9/VO2 Memristive Devices** |
| | **Roman Korobko,** ETH Zurich, Switzerland |

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| **11:45-12:05** | **Title: Linear response in topological semimetals** |
| | **Yan sun,** Max Planck Institute for Chemical Physics of Solids, Germany |
| | Young Research Forum |
| **12:05-12:25** | **Title: Ch@AgNPs modified SPGE: Voltammetric estimation of Anti -HIV Drug** |
| | **Preeti Tiwari**, Banaras Hindu University (IIT), India |
| **12:25-12:45** | **Title: Surface induced assembly of PTZ-TCNQ complex and its charge transport characteristics** |
| | **Richa Mishra**, Banaras Hindu University (IIT), India |
| **12:45-13:05** | **Title: Nanocrystalline scaffold of AMT-Ag for Electro-sensing of ciprofloxacin drug in biological fluid and pharmaceutical formulation** |
| | **Vinita**, Banaras Hindu University(IIT), India |
| **Lunch Break 13:05-14:55** | |
| **14:55-15:15** | **Title: Electrochemical Breast Cancer Screening Technology Facilitating Earlier Clinical Diagnosis** |
| | **Mackenzie Honikel**, Arizona State University,USA |
| **15:15-15:35** | **Title: Improving Single Carbon Nanotube Electrode Contacts Using Molecular Electronics** |
| | **Atiweena Krittayavathananon**, University of Oxford, UK |
| **15:35-15:55** | **Title: Organization of Chemical Reactions by Using the Discrete Properties of Electric Current** |
| | **Dina Alshimbayeva,** KazNRTU, Kazakhstan |
| **15:55-16:15** | **Title:Experimental Study on Conductivity versus Concentration of Electrolytes for Electrochemical Deburring Process** |
| | **Alay Patel, Pandit Deendayal Petroleum University, India** |
| **Coffee Break 16:15-16:30 @ Foyer** | |
| **16:30-16:50** | **Title: Experimental Study of Combined Electrolytes for Electrochemical Deburring Process** |
| | **Meet Oza, Pandit Deendayal Petroleum University, India** |
| **16:50-17:10** | **Title: Experimental Investigations of ECD process parameters** |
| | **Harsh Thakkar, Pandit Deendayal Petroleum University, India** |
| | **Poster Presentation 17:10-17:30** |
| | **Title: Computational modeling and studies of hydroxyapatite with defects of the oxygen vacancy type providing its photocatalytic activity** |
| | **Vladimir Bystrov**,Institute of Mathematical Problems of Biology RAS, Russia |
| | **Title: Electrochemical control of the oxide film growth on niobium** |
| | **Michal Stępien**,AGH – University Science and Technology, Krakow Poland |
| | **Title: Influence of the dopant concentration on photoelectrochemical behavior of Al-doped TiO2** |
| | **Anna A Murashkina**, SPBU, Russia |
| **Note: Tentative Program has been designed with the projected Speakers Names and Titles Program may be subjected to change** | |