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4th International Conference on

Electrochemistry

June 11-12, 2018 Rome, Italy

Scientific Program

Day 1 June 11, 2018

Hall Name

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 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, 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, Russia
12:35-12:55	Title: Integration of functional liquids in solid-state electronic circuits
	Evangelos Fillis Tsirakis, Max Planck Institute for Solid State Research, Germany
Lunch 12:55-13:45	
13:45-14:05	Title: Electrochemical water disinfection – Challenges for the 21st century
	Henry Bergmannm, Anhalt University, Germany
14:05-14:25	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

14:25-14:45	**Title: New poly(3,4-ethylenedioxythiophene) coatings for neural recording and stimulation**
	Stefano Carli, Italian Institute of Technology, Italy
14:45-15:05	**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
15:05-15:25	**Title: Interaction between the morphology and the kinetics of the (de)lithiation reactions of novel sinw based anodes in lithium ion batteries**
	Ulrike Langklotz, Institute of Materials Science, Germany
15:25-15:45	**Title: Verification of photo-splitting of H2O to HOOH and H2 as initial photo products**
	Shozo Yanagida, Osaka University, Japan
15:45-16:05	**Title: Electrodialysis and electrodeionization applied to remove Cr (III)**
	Lucia Alvarado, Guanajuato University, Mexico
Coffee Break 16:05-16:20 @ Foyer	
16:20-16:40	**Title:S-layer protein lattice as a key component in biosensor development**
	Bernhard Schuster, University of Natural Resources and Life Sciences, Austria
16:40-17:00	**Title: Surface chemistry and electrode design for high performance li-s battery**
	Wen Liu, Beijing University of Chemical Technology, China
17:00-17:20	**Title: Immunosensor for label-free psa cancer detection on GQDs-AuNRs modified screen-printed electrodes**
	Rajiv Prakash, Banaras Hindu University, India
17:20-17:40	**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	
09:30-10:00	**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 | Electronic Materials and Processing | Electronic Materials and Processing | Electrochemical Water Treatment | Electronic Materials and Processing | Dielectric Science and Materials	
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-Grillon, University of New-Caledonia, France
11:25-11:45	**Title: Ce 0.8 Gd 0.2 O 1.9/VO2 memristive devices**
	Roman Korobko, ETH Zurich, Switzerland
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: Electrochemical breast cancer screening technology facilitating earlier clinical diagnosis**
	Mackenzie Honikel, Arizona State University, USA
12:25-12:45	**Title: Improving single carbon nanotube electrode contacts using molecular electronics**
	Atiweena Krittayavathananon, University of Oxford, UK
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, India
Lunch Break 13:05-14:55	
14:55-15:15	**Title: ChaAgNPs modified SPGE: Voltammetric estimation of anti -HIV drug**
	Preeti Tiwari, Banaras Hindu University, India
15:15-15:35	**Title: Surface induced assembly of PTZ-TCNQ complex and its charge transport characteristics**
	Richa Mishra, Banaras Hindu University, India
15:35-15:55	**Title: Experimental study on conductivity versus concentration of electrolytes for electrochemical deburring process**
	Alay Patel, Pandit Deendayal Petroleum University, India
15:55-16:15	**Title: Organization of chemical reactions by using the discrete properties of electric current**
	Dina Alshimbayeva, Kazakh National Research Technical University, Kazakhstan
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, Poland
	Title: Influence of the dopant concentration on photoelectrochemical behavior of Al-doped TiO2
	Anna A Murashkina, Saint Petersburg State University, Russia
Note: Tentative Program has been designed with the projected Speakers Names and Titles Program may be subjected to change	