Day 1 June 11, 2018
08:00-09:00 Registrations

Hall - Olimpica 1

Opening Ceremony

Keynote Forum

09:20-09:30 Introduction
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 of Munich, Germany

09:30-10:00 Title: Polyelectrolyte multilayer assemblies and brushes on reduced graphene oxide field-effect transistors for sensing applications
W Knoll, Austrian Institute of Technology, Austria

Group Photo

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

Session Chair: Guowei Li, Max Planck Institute for Chemical Physics of Solids, Germany
Session Co-Chair: Jelena Popovic, Max Planck Institute for Solid State Research, Germany

10:30-10:50 Title: Design and development of catalyst materials for the production of fuels and chemicals in a sustainable manner
Thomas F Jaramillo, Stanford University, USA

Networking & Refreshment Break: 10:50-11:05 @ Foyer

11:05-11:25 Title: Interfacially engineering topological semimetal MoP into a superior electrocatalyst for hydrogen evolution
Guowei Li, Max Planck Institute for Chemical Physics of Solids, Germany

11:25-11:45 Title: Electrochemistry of bipolar s-tetrazine derivatives
M Lapkowski, Silesian University of Technology, Poland

11:45-12:05 Title: Computational studies of ferroelectric composites and thin films containing polyvinylidene fluoride (PVDF) and graphene/graphene oxide
Vladimir S Bystrov, Keldysh Institute of Applied Mathematics RAS, Russia

12:05-12:25 Title: Integration of functional liquids in solid-state electronic circuits
E Fillis Tsirakis, Max Planck Institute for Solid State Research, Germany

12:25-12:45 Title: (Electro)chemical water disinfection – challenges for the 21st century
M E Henry Bergmann, Anhalt University of Applied Sciences, Germany

12:45-13:05 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

Lunch Break: 13:05-13:55 @ Hotel Restaurant

13:55-14:15 Title: New poly(3,4-ethylenedioxythiophene) coatings for neural recording and stimulation
Stefano Carli, Italian Institute of Technology, Italy

14:15-14:35 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
Title: Interaction between the morphology and the kinetics of the (de)lithiation reactions of novel SiNW based anodes in lithium ion batteries
Ulrike Langklotz, TU Dresden, Germany

Title: Verification of photo-splitting of H₂O to HOOH and H₂ as initial photoproducts
Shozo Yanagida, Osaka University, Japan

Title: Electrodialysis and electrodeionization applied to remove Cr (III)
Lucia Alvarado, Guanajuato University, Mexico

Title: S-layer protein lattice as a key component in biosensor development
Bernhard Schuster, University of Natural Resources and Life Sciences, Austria

Title: Surface chemistry and electrode design for high performance Li-S battery
Wen Liu, Beijing University of Chemical Technology, China

Networking & Refreshment Break: 16:15-16:30 @ Foyer

Title: Immunosensor for label-free PSA cancer detection on GQDs-AuNRs modified screen-printed electrodes
Rajiv Prakash, Banaras Hindu University, India

Title: The impact of M Faraday’s work on the development of natural science
Essen N Suleimenov, Kazakh British Technical University, Kazakhstan

Title: New approach of flexible electrodes coated with carbon nanotubes/poly(3,4-ethylenedioxythiophene (PEDOT) for mancozeb analysis in water
Roy Zamora, Costa Rica Institute of Technology, Costa Rica

Panel Discussion

Day 2 June 12, 2018
Hall - Olimpica 1

Keynote Forum

09:20-09:30 Introduction

09:30-10:00 Title: The connection between chemistry and electric function in solids
Joachim Maier, Max Planck Institute for Solid State Research, Germany

Title: Interfacial effects and charge carrier chemistry in lithium electrolytes
Jelena Popovic, Max Planck Institute for Solid State Research, Germany

Networking & Refreshment Break: 10:30-10:45 @ Foyer


Session Chair: Elod L Gyenge, University of British Columbia, Canada
Session Co-Chair: Peggy Gunkel Grillon, University of New-Caledonia, New Caledonia

Session Introduction

10:45-11:05 Title: Novel manganese dioxide-based electrocatalyst formulations for bifunctional oxygen reduction and evolution reaction activity
Elod L Gyenge, University of British Columbia, Canada

Title: Calcareous electrochemical precipitation, a new method to trap dissolved metallic contaminants in seawater
Peggy Gunkel Grillon, University of New-Caledonia, New Caledonia

Title: Ce₀.₈ Gd₀.₂ O₁.₉ VO₂ memristive devices
Roman Korobko, ETH Zurich, Switzerland

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: 13:05-13:55 @ Hotel Restaurant

13:55-14:15 Title: Ch@AgNPs modified SPGE: Voltammetric estimation of anti-HIV drug
Preeti Tiwari, Banaras Hindu University, India

14:15-14:35 Title: Surface induced assembly of PTZ-TCNQ complex and its charge transport characteristics
Richa Mishra, Banaras Hindu University, India

14:35-14:55 Title: Experimental study on conductivity versus concentration of electrolytes for electrochemical deburring process
Alay Patel, Pandit Deendayal Petroleum University, India

14:55-15:15 Title: Organization of chemical reactions by using the discrete properties of electric current
Dina U Alshimbayeva, Kazakh National Research Technical University, Kazakhstan

Networking & Refreshment Break: 15:15-15:30 @ Foyer

15:30-15:50 Title: Experimental study of combined electrolytes for electrochemical deburring process
Meet Oza, Pandit Deendayal Petroleum University, India

15:50-16:10 Title: Experimental investigations of ECD process parameters
Harsh Thakkar, Pandit Deendayal Petroleum University, India

Poster Presentation 16:10-16:40
Poster Judge: Vladimir Bystrov, Keldysh Institute of Applied Mathematics RAS, Russia

Panel Discussion

Bookmark your dates

5th International Conference on Electrochemistry

May 27-28, 2019  Barcelona, Spain

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