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13th International conference on

Electrochemistry

May 27-28, 2019
Barcelona, Spain



TENTATIVE PROGRAM

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Electrochemistry

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AGENDA

Title: Graphene-based hybrid electrodes for high performance supercapacitors analysis

Syeda Wishal Bokhari
Shanghai Jiao Tong University, New Zealand

Syeda Wishal Bokhari graduated from Shanghai Jiao Tong University with an MS degree in Materials Science and Engineering. She was awarded the prestigious Excellent International Student Award (2016-17) and Outstanding MS dissertation Award (2018) of SJTU based on her excellent academic and research performance. She was offered many prestigious fully funded scholarships from the University of Manchester, University of Alberta, University of Melbourne, University of Auckland and the Tsinghua University

Title: Nanoscale interactions governing the performance of lithium- and manganese-rich layered oxides cathodes

L. Simonelli
CELLS – ALBA Synchrotron, Barcelona, Spain

Laura Simonelli is present in CELLS – ALBA Synchrotron, Barcelona, Spain. Her Research is on Lithium-rich, transition-metal-oxide cathodes are among the most promising materials for the next lithium-ion batteries generation because they operate at high voltages and deliver high capacities.

Title: Mg-doped LaCrO3 as a support material for the oxygen electrode in PEM electrolyzer

Kent Kammer Hansen
Technical University of Denmark, Denmark

Kent Kammer Hansen has completed his PhD at the age of 31 years from the Technical University of Denmark. He is a senior researcher at the Technical University of Denmark. He has published more than 100 papers in reputed journals and has been serving as an reviwever for several journals.

SPEAKER SLOTS AVAILABLE

Biography

Title: Pyromellitic diimide-based copolymers and their application as stable cathode active materials in lithium and sodium-ion batteries

Nicolas Zindy Rocha
Université Laval
Canada

Nicolas Zindy completed his studies at University Laval. His research is on Organic molecules are emerging candidates for the next generation of cost-effective active materials of Li-ion batteries. Small diimide building blocks such as pyromellitic diimide (PMDI) have attracted much attention due to their high theoretical capacity

Title: Noble metal nanoparticles impregnated into zeolites for ethanol oxidation reaction in alkaline medium

A A El-Shafei
Mansoura University,
Egypt

A.A. El-Shafei, Science Doctor (PhD-Chemistry), he became a full Professor of Physical Chemistry at Mansoura University in October 2001. He got his B Sc in chemistry, M Sc in Physical Chemistry and Specialist in electro-chemistry, Doctor's degree (Ph.D.) under channel system program (Bonn University, Germany & Mansoura University, Egypt). Dr. El-Shafei acts as active participants in various electrochemist groups in Germany, Japan, France and USA. In 1994 hes spend 6 months as a research asscoate at CNRS, franve.

Title: Synthesis and characterization by electrochemical methods of PPy-PDA thin layers

Ricardo Barrera
Universidad de los Andes,
Colombia

Ricardo Barrera Gutiérrez studied chemistry in the National University of Colombia where he stared in the world of electrochemistry in a research project associate his bachelor thesis “galvanostatic synthesis and electrochemical characterization of copper nanofoams” that produced a publication. Now he is a graduate student in Universidad de los Andes where he develops his research thesis in conductive polymers.

SPEAKER SLOTS AVAILABLE

Title: Electrochemical impendance study of new alkyd paints prepared with green components (resin and anticorrosive pigment)

Antonella Hadzich Girola, Pontificia Universidad Católica del Perú, Peru

Antonella Hadzich has a Master degree in Materials Science and Engineering with an academic background in Chemistry (Degree in Chemistry) from the Pontificia Universidad Católica del Perú (PUCP). She is a PhD student in Physics at PUCP, thanks to a CONCYTEC scholarship.

Title: Fabrications of solid-state ion selective electrode and study its effect of Back Contact on the response of Ni(II) Ion-Selective Electrodes

Rajan Timilsina Tri-Chandra Multiple Campus, Nepal

Rajan Timilsina has completed his studies in Tri-Chandra Multiple campus in Nepal. His research interest is although heavy metals have their beneficial action, also is stable and persistent environmental contamination.

Title: Efficient electrosynthesis of silver(II) salts

Wojciech Grochala, University of Warsaw, Poland

Wojciech Grochala (b.1972) studied chemistry at the University of Warsaw (Poland) and received his Ph.D. in molecular spectroscopy under the supervision of Jolanta Bukowska. After postdoctoral work in theoretical chemistry with Roald Hoffmann (Cornell, US), and in experimental inorganic and materials chemistry with Peter P. Edwards (Birmingham, UK) he returned to Poland. Wojciech Grochala received the Kosciuszko Foundation Fellowship (US), Royal Society of Chemistry Postdoctoral and Research Fellowships (UK), The Crescendum est Polonia Foundation Fellowship (Poland), and Świętosławski Prize 2nd degree (Polish Chem. Soc., Warsaw section).

SPEAKER SLOTS AVAILABLE

Title: Comparative redox electrochemistry and oxygen electrocatalysis of mononuclear and dinuclear ball-type

Ali Rıza Özkaya, Marmara University, Turkey

Ali Rıza Özkaya received his undergraduation, master's degree and PhD from Marmara University, in 1980, 1984 and 1990, respectively, and became professor at the same university in 2005. He is the head of Physical Chemistry Department at Marmara University since 2012. His research interest ranges from electrochemical redox, in-situ spectroelectrochemical, electrochromic and electrocatalytic properties of organic and inorganic based macrocyclic compounds, especially phthalocyanines, to electrochemical energy convertion and storage.

Title: Copper oxide nanostructures for electrochemical sensing – facet-dependent electrochemical properties

Anna Kusior, AGH University of Science and Technology, Poland

A. Kusior received her MSc in a filed of materials science and Ph.D. in chemistry from AGH University of Science and Technology, Kraków, Poland in 2015. Since 2015 she has been working as Assistant at Faculty of Materials Science and Ceramics at AGH. Her scientific research concern the physicochemical properties of nanomaterials for photoelectrochemical and sensing applications. She has published more than 15 papers in reputed journals.

Title: Electrochemical, in-situ spectroelectrochemical and in-situ electrocolorimetric characterization of peripherally and

Efe B. Orman Marmara University, Turkey

Efe Baturhan Orman received his PhD in physical chemistry at Marmara University, Istanbul -TURKEY in 2017. He has been working as a research assistant at Marmara University since 2006. His interests are electrochemical, electrocatalytic and electrocolorimetric properties of organic molecules and their applications in thin films and modified electrodes.

SPEAKER SLOTS AVAILABLE

Title: Electrochemical sensing of glucose – a biosensor based on cuprous sulfide nanoflowers

Julia Maria Mazurkow
AGH Univerity of Science and Technology, Poland

Julia Mazurkow has completed his B.Eng. at the age of 22 years from AGH Univeristy of Science and Technology. She is currently Master Student at the same univeristy and pursues her thesis with cooperation with Empa Swiss Federal Laboratories for Materials Science and Technology. Her research interest focuses on nanomaterials synthesis and characterization, as well as their application in the field of electrochemistry (biomolecules detection) and water purification.

Title: Carbon Nanostructures and devices

Ante Prkic
Croatia

In this work is described the preparation and application of "home-made" iodide and chloride ion-selective electrode enriched with enriched with iron oxides or zinc oxide nanoparticles. Iodide membrane was made of AgI:Ag2S:PTFE = 1:1:2 and enriched with ZnO nanoparticles in ratio 1-5.0 wt.%. The prepared chloride membrane was made of AgCl:Ag2S:PTFE = 1:1:2 and AgCl:Ag2S:PTFE = 2:1:2 enriched with mentioned nanoparticles in ratio 0.5-1.2 wt.%. Prepared iodide membranes were used for penicillamine (Pen) determination in acetic buffer (pH = 4-4.75) and in perchloric acid (pH = 1-2).

Title: Structural, dielectric properties and photo-catalytic activity of (1-x)Na0.5Bi0.5TiO3-xK0.5Bi0.5TiO3 lead-free ceramics

M.Mesrar
Signals, Systems and Components Laboratory, Morocco

Shafeeque K* and Hashim KM Uwin Life Sciences, Malappuram, India. Comparative Anti-Angiogenesis Study between Allicin Nanoparticle and Normal Allicin from Garlic.

SPEAKER SLOTS AVAILABLE

Title: Electrochemical and Electrocatalytic Oxygen Reducing Properties of Metal Phthalocyanines Involving Tertiary Butyl

Tarifa Kaniz
Marmara University,
Turkey

Tarifa Kaniz has completed her Bachelor's and Master degree from her country, Bangladesh. She is now doing her PhD in Marmara University. During this period, she is also working in a project related with the identification of the electrocatalytic performances of various phthalocyanine compounds for oxygen reduction.

Title: Hematite nanostructures with well-defined facets and their electrochemical activity towards H2O2 and glucose

Kinga Michalec
AGH University of Science and Technology
Poland

Kinga Michalec received her BSc in a field of Materials Science from AGH University of Science and Technology. She is currently an MSc student in a field of Materials Science with specialty Functional Materials at the same University. Her research includes the influence of the morphology of α-Fe2O3 and SnO2 nanomaterials on their physicochemical properties for electrochemical and photoelectrochemical applications.

Title: Corrosion Behaviour of Q345 Steel under Salt Spray Environment

Cui Chuanjie
Tongji University

China

Cui Chuanjie is a Ph.D candidate of civil engineeing in Tongji University. His research interests mainly focus on the corrosion evolution laws as well as the corrosion-fatigue coupled analysis of the marine steel structures.

SPEAKER SLOTS AVAILABLE

Title: Size-controllable Co3O4 nanograin-decorated Co(OH)2 sheets synthesized with MOF templates for high-performance all-solid-state asymmetric supercapacitor electrodes

Gyeongseop Lee Seoul National University South Korea

Gyeongseop Lee received his BSc in Chemical and Biological Engineering from the Sogang University in 2014. He is currently pursuing a PhD degree in Chemical and Biological Engineering at the Seoul National University under the supervision of Prof. Jyongsik Jang. His research mainly focuses on zeolitic imidazolate framework-derived materials and their composites for supercapacitor applications.

Title: Organic monolayer nanopatterning via interfacial solid-phase electrochemical oxidation

Jacob Sagiv, Weizmann Institute of Science Israel

Jacob Sagiv is a Professor in the Weizmann Institute Department of Materials and Interfaces. He received the BSc in Chemistry and Physics from the Hebrew University of Jerusalem, and PhD (1975) from the Weizmann Institute. As postdoctoral fellow (1975-1978, with Prof. Hans Kuhn) at Max Planck Institute for Biophysical Chemistry, Göttingen, J. Sagiv pioneered the modern research area of monolayer self assembly (J. Chem. Phys. 1978, 69, 1836-1847; J. Am. Chem. Soc. 1980, 102, 92-98).

Title: Li-ion battery research: Progress at C-MET and future plans

Milind V. Kulkarni Centre for Materials for Electronics Technology

Milind V. Kulkarni presently working as 'Senior Scientist' and 'Head' Nanocomposite Laboratory, Centre for Materials for Electronics Technology (C-MET), Pune, under Ministry of Electronics and Information Technology (MeitY), Govt. of India. He obtained his M.Sc. degree in 'Polymer Chemistry' from Shivaji University, Kolhapur, India in 1996, with first rank.

SPEAKER SLOTS AVAILABLE

Title: Electrodeposition of Cu_2O and effect of different deposition parameters on its properties

Iqra Reyaz Hamdani & Prof. Ashok N. Bhaskarwar

Iqra Reyaz Hamdani completed her B-Tech in Chemical Engineering from National Institute of Technology Srinagar (2012). She worked in the capacity of Assistant Manager (Technical) in one of the Maharatna PSUs of India, Coal India Limited (2012-2015). She is currently pursuing her PhD from the Department of Chemical Engineering, Indian Institute of Technology Delhi under the supervision of Prof. Ashok N. Bhaskarwar (2015- present).

Title: Controlling the simultaneous under-potential deposition of multiple elements on TiO_2 nanotube-arrays with enhancement of photo-catalytic activity

Athil Al-Shihabi Al-Ani
University of Nottingham School of Engineering, UK

Athil Al-Shihabi Al-Ani is a PhD student at the University of Nottingham/Chemical and Environmental Engineering. She has finished her Master degree in Iraq at the University of Technology/Chemical Engineerin. She is a lecturar at Al-Nahrain Univesity/School of Engineering. She has published 2 papers, recently she submitted a paper to The journal of Physical Chemistry.

Title: Ion-selective electrodes: As a tool for electrochemical sensor applications

Chandra Mohan K. R. Mangalam University

Chandra Mohan obtained his PhD degree in the field of "Schiff based metal complexes and their applications as Chemical Sensors" from Guru Gobind Singh Indraprastha University, Delhi, India. He has done M.Phil in Inorganic Chemistry from Delhi University and performed his research work on "Heteropoly acid intercalated clays as catalysts" in 2009. He has keen interest in research and development activities.

SPEAKER SLOTS AVAILABLE

Title: Photoelectrochemical oxidation of methane at a TiO_2 nanotubes array photoanode

Yanir Kadosh
Ben Gurion University of the Negev

Yanir Kadosh is a PhD student that focuses on the energy conversion of methane. The motivation of his research is to exploit methane as a fuel. Yanir examines the exploitation of light in a photoelectrochemical system using various electrochemical techniques in order to reduce the energy required for the conversion of methane to liquid fuels or to electrical energy. This process is based on a semiconductor that generates highly reactive holes upon illumination.

Title: Zirconium dioxide nanoparticles modified gold microelectrode for improved amperometric detection of ascorbic acid, 2,3-dihydroxybenzoic acid and pyrocatechol in flow-based analysis

Muhammed Ariful Islam Ben Gurion Australia

Yanir Kadosh is a PhD student that focuses on the energy conversion of methane. The motivation of his research is to exploit methane as a fuel. Yanir examines the exploitation of light in a photoelectrochemical system using

Title: Electronic properties of common sugars

Kaman Singh

Kaman Singh completed his studies in Department of Chemistry, School of Physical and Decision Sciences.

SPEAKER SLOTS AVAILABLE

DAY 1
Monday, 27th May

08:30-09:00 **Registrations**

09:00-09:30 **Introduction**

09:30-09:50 COFFEE BREAK

09:50-11:50 Meeting Hall 01 **KEYNOTE LECTURES**

11:50-13:10

MEETING HALL 01	MEETING HALL 02
Talks On: Theoretical and Computational Electrochemistry	**Talks On: Physical and Analytical Electrochemistry**
Electrochemical Thermodynamics	Photoelectrochemistry
Standard Electrode Potentials	Electrochemical Energy
Modern Electronic Structure Theory	Sensors
Electron Correlation in Electrochemistry	Organic and Bioelectrochemistry

13:10-13:15 GROUP PHOTO

13:15-14:00 LUNCH BREAK

14:00-16:00

MEETING HALL 01	MEETING HALL 02
Talks On: Batteries and Energy Storage	**Talks On: Electrochemical Water Treatment**
Corrosion Science and Technology	Electrodes
Electronic Materials and Processing	Electrolysis
Carbon Nanostructures	Electrolysis of water and Methanation
Dielectric Science and Materials	Electrode Water Interface
Electrochemical Electroless Deposition	Alkaline Water Electrolysis

16:00-16:20 COFFEE BREAK

MEETING HALL 01 (16:20-17:00)	MEETING HALL 01 (17:00-18:00)
Young Researchers in Electrochemistry 2019	Workshop

DAY 2
Tuesday, 28th May

09:00-10:30 Meeting Hall 01 — **KEYNOTE LECTURES**

10:30-10:50 COFFEE BREAK

10:50-12:50	MEETING HALL 01	MEETING HALL 02
	Talks On: Electrochemical Surface Science	**Talks On: Electrochemical Engineering**
	Surface Electrochemistry	Interconnection between Chemical Engineering and Electrochemistry
	Electrochemical Atomic Layer Deposition	Environmental Electrochemistry
	Atomic imaging of surface	Electrochemical Systems
	Nanoscale surface probing	Electrochemical Industry
	Exploration of surface catalysis	Electrochemical Reactor Design

12:50-13:35 LUNCH BREAK

13:35-15:55	MEETING HALL 01	MEETING HALL 02
	Talks On: Market Surveillance of Electrochemistry	**Talks On: Inorganic Electrochemistry**
	Electrochemical Instruments Market	Voltammetry
	Sensor Market	Electrochemical Measurements
	Battery Market	Chemiluminescence
	Corrosion Market	Chronoamperometry
	Protective Coating Market	Applied Electrochemistry

15:55-16:15 COFFEE BREAK

MEETING HALL 01 (16:15-17:00)	MEETING HALL 01 (17:00-18:00)
Poster Presentations	Workshop

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Glimpses of Electrochemistry

















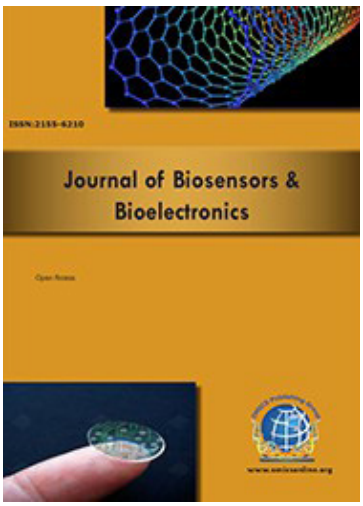
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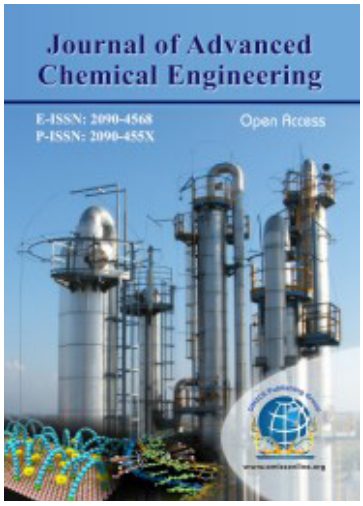


Electrochemistry 2019

- Journal of Biosensors & Bioelectronics
- Journal of Physical Chemistry & Biophysics
- Journal of Advanced Chemical Engineering







Important Dates

Abstract submission opens: **July 01, 2018**

Registration opens: **July 01, 2018**

On spot registration: **May 27, 2019**

Venue & Accommodation

Barcelona, Spain

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Electrochemistry 2019

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