



Scientific Program

13th International Conference on

Electrochemistry

May 27-28, 2019 | Barcelona, Spain

DAY-1

May 27, 2019

Meeting Hall: **Silverstone**

07:30-08:30 Registrations

Opening Ceremony **08:30-08:50**

KEYNOTE FORUM

08:50-09:00 Introduction

09:00-09:30 **Title: Nanoscale interactions governing the performance of lithium- and manganese-rich layered oxides cathodes**
L. Simonelli, CELLS – ALBA Synchrotron, Spain

09:30-10:00 **Title: Copper oxide nanostructures for electrochemical sensing - facet dependent electrochemical properties**
Anna Kusior, AGH University of Science and Technology, Poland

10:00-10:30 **Title: Noble metal nanoparticles impregnated into zeolites for ethanol oxidation reaction in alkaline medium**
A.A.El-Shafei, Mansoura University, Egypt

Networking & Refreshments 10:30-10:50 @ BAR TERRAZA

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

Chair: Mohammad Tavakkoli, Aalto University, Finland

INTRODUCTION

10:50-11:10 **Title: Mg-doped LaCrO₃ as a support material for the oxygen electrode in PEM electrolyzer**
Kent Kammer Hansen, Technical University of Denmark, Denmark

11:10-11:30 **Title: Efficient electrosynthesis of silver(II) salts**
Wojciech Grochala, University of Warsaw, Poland

11:30-11:50 **Title: Rational design of high-performance electrocatalysts based on advanced carbon nanomaterials**
Mohammad Tavakkoli, Aalto University, Finland

11:50-12:10 **Title: Photocathodes based on copper oxide nanostructures and their photoelectrochemical properties**
Anna Kusior, AGH University of Science and Technology, Poland

12:10-12:30 **Title: Organic monolayer nanopatterning via interfacial solid-Phase electrochemical oxidation**
Jacob Sagiv, Weizmann Institute of Science, Israel

12:30-12:50 **Title: Comparative redox electrochemistry and oxygen electrocatalysis of mononuclear and dinuclear ball-type phthalocyanines**
Ali Rıza Özkaya, Marmara University, Turkey

Lunch Break 12:50-13:30 @ BAR TERRAZA

13:30-13:50 **Title: Graphene-based hybrid electrodes for high performance supercapacitors**
Syeda Wishal Bokhari, University of Auckland, New Zealand

13:50-14:10 **Title: Structural, dielectric properties and photo-catalytic activity of $(1-x)\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3-x\text{K}_0.5\text{Bi}_0.5\text{TiO}_3$ lead-free ceramics**
M.Mesrar, LSSC, Morocco

14:10-14:30 **Title: Ion-selective electrodes: As a tool for electrochemical sensor applications**
Chandra Mohan, K. R. Mangalam University, India

14:30-14:50 **Title: Li-ion battery research: Progress at C-MET and future plans**
Milind V. Kulkarni, Ministry of Electronics and Information Technology, India

14:50-15:10 **Title: Size-controllable Co_3O_4 nanograin-decorated $\text{Co}(\text{OH})_2$ sheets synthesized with MOF templates for high-performance all-solid-state asymmetric supercapacitor electrodes**
Gyeongseop Lee, Seoul National University, South Korea

15:10-15:30 **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

15:30-15:50 **Title: Electrochemical sensing of glucose – a biosensor based on cuprous sulfide nanoflowers**
Julia Mazurkow, AGH University of Science and Technology, Poland

Networking & Refreshments 15:50-16:10 @ BAR TERRAZA

16:10-16:30 **Title: Electrochemical, *in-situ* spectroelectrochemical and *in-situ* electrocolorimetric characterization of peripherally and non-peripherally substituted metal free and metallophthalocyanines**
Efe B. Orman, Marmara University, Turkey

16:30-16:50 **Title: Electrochemical and electrocatalytic oxygen reducing properties of metal phthalocyanines involving tertiary butyl and Oxo Bridging Groups**
Tarifa Kaniz, Marmara University, Turkey

16:50-17:10 **Title: Preparation graphene oxide-poly(amidoamine) dendrimer nano hybrid material modified electrode for enhancing capacitance**
Muhammad Nazrul Islam, Yildiz Technical University, Turkey

Panel Discussion

DAY-2

May 28, 2019

Meeting Hall: **Silverstone**

Networking Lunch Break 10:40-11:00 @ BAR TERRAZA

POSTER PRESENTATIONS 11:00-12:30 @ MEETING ROOMS

Poster Judge: **Anna Kusior**, AGH University of Science and Technology, Poland

Networking Lunch Break 12:30-13:30 @ BAR TERRAZA

PANEL DISCUSSION

Awards & Closing Ceremony

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14th International Conference on

Electrochemistry

May 25-26, 2020 Rome, Italy

E: electrochemistry@expertsgathering.org

Website: electrochemistry.chemistryconferences.org