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Scientific Program

International Conference on

Battery and Fuel Cell Technology

December 8-9, 2016 Dubai, UAE



Hosting Organization: Conference Series LLC

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Day 1 December 08, 2016

08:00-09:00 Registrations

Salon I

conferenceseries.com 09:00-09:20 **Opening Ceremony**

Introduction 09:20-09:25

Keynote Forum

09:25-10:05 **Title: Electro-thermal modeling of lithium-ion battery packs from the safety perspective**

Jennifer X Wen, University of Warwick, UK

10:05-10:45 **Title: Development and application of vanadium flow battery for energy storage**

Huamin Zhang, Dalian Institute of Chemical Physics, China

Group Photo 10:45-10:50

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

11:10-11:50 **Title: Engineered electrodes at nanoscale for energy storage devices**

Vilas G Pol, Purdue University, USA

11:50-12:30 **Title: Proton exchange membranes prepared from cross-linked and multi-block copolymers based on poly (arylene ether ketone)**

Dukjoon Kim, Sungkyunkwan University Suwon, Republic of Korea

Instrumental Solutions for Battery Testing by Metrohm @ 12:30-13:00

Lunch Break 13:00-14:00 @ Market Place

Workshop

14:00-14:45 **Title: Understanding of surface reactions as a necessity for development of new electrode materials for Li-ion batteries**

Jolanta Świątowska, Institut de Recherche de Chimie Paris, France

Sessions: Aspects of Battery | Primary Cell Batteries | Secondary Cell Batteries | Operation Problems in Batteries | Applications of Batteries | Batteries in Renewable Sources and Grid Balancing

Session Chair: Vilas G Pol, Purdue University, USA

Session Introduction

14:45-15:15 **Title: General equation of power behavior in fuel cells and its experimental application**

María José Lavorante, Del Instituto de Investigaciones Científicas y Técnicas para la Defensa, Argentina

15:15-15:45 **Title: Improving the electrochemical performances of $Li_3V_2(PO_4)_3$ and $LiTi_2(PO_4)_3$ by ion doping**

Kai Feng, Dalian Institute of Chemical Physics, China

15:45-16:15 **Title: Facile synthesis of nanoscale laminated $Na_3V_2(PO_4)_3$ for high performance sodium ion battery cathode**

Qiong Zheng, Dalian Institute of Chemical Physics, China

Networking & Refreshment Break 16:15-16:35 @ Foyer

16:35-17:05 **Title: Recent results of the development of redox flow batteries for storage of renewable energies**

Jens Noack, Fraunhofer-Institute for Chemical Technology, Germany

17:05-17:35	**Title: Li-organic batteries and beyond** **Klemen Pirnat,** National Institute of Chemistry, Slovenia

Panel Discussion 17:35-17:45

Day 2 December 09, 2016

Salon I

Introduction

Keynote Forum

09:00-09:40	**Title: Effect of purging on the performance of a PEM fuel cell stack with a dead-end anode** **Tariq Shamim,** Masdar Institute of Science and Technology, UAE
09:40-10:20	**Title: Titania nanotubes for Li-ion microbatteries** **Thierry Djenizian,** Ecole Nationale des Mines de Saint-Etienne, France
10:20-11:00	**Title: Modeling and simulation of lead-acid batteries** **Vahid Esfahanian,** University of Tehran, Iran

Networking & Refreshment Break 11:00-11:20 @ Foyer

Sessions: Global Outlook of Fuel Cell | Classifications of Fuel Cell| Applications of Fuel cells| Recent Advancements in Fuel Cell Technology| Super capacitors vs. Battery| Various Energy Materials

Session Chair: Tariq Shamim, Masdar Institute of Science and Technology, UAE

Session Introduction

11:20-11:50	**Title: Gasifier-SOFC systems and applications** **P V Aravind,** Delft University of Technology, Netherlands
11:50-12:20	**Title: Fuel cell diagnosis based on stack voltage multifractal analysis. The question of the method portability** **D Benouioua,** EFFICACITY, France
12:20-12:50	**Title: Single cell performances of MEA with hybrid membrane and Pt/C catalyst for low temperature H_2/O_2 fuel cells** **Thanganathan Uma,** KPR Institute of Technology, India

Video Presentation

12:50-13:00	**Title: The environmental impact of Li-Ion batteries and the role of key parameters** **Jens Peters,** Karlsruhe Institute for Technology, Karlsruhe

Lunch Break 13:00-14:00 @ Market Place

Poster Presentations 14:00-15:00

BFCT-01	**Title: Synthesis and electrochemical performance of $Na_2Mo_2O_7$ as an anode material for Na-ion battery applications** **Rakesh Verma,** Indian Institute of Technology-Madras, India
BFCT-02	**Title: The development and the application of porous membrane via surface modification for all-vanadium redox flow batteries** **Dilek Yalcin,** Yildiz Technical University, Turkey
BFCT-03	**Title: Fuel cell systems for ships and pleasure boats** **Lindert van Biert,** Delft University of Technology, Netherlands

BFCT-04	**Title: Futuristic reversible power plants based on solid oxide fuel cells** **PV Aravind,** Delft University of Technology, Netherlands
BFCT-05	**Title: Mesoporous carbon electrode materials for supercapacitors** **Yulia G Mateyshina,** Noakhali Science and Technology University, Russia
BFCT-06	**Title: Using controllable electrochemically reduced graphene oxide (ERGO) as high-capacitance electrode material for supercapacitors** **Ran Bi,** The Hong Kong Polytechnic University, Hong Kong
BFCT-07	**Title: Usage of Cyanobacteria in battery: Saving money, enhancing the storage capacity, making portable, and supporting the ecology** **Saddam Husain Dhobi,** Tribhuvan University, Nepal

Panel Discussion 15:00-15:10

Awards & Closing Ceremony @ 15:10-15:30

Networking & Refreshment Break 15:30-15:50 @ Foyer



Bookmark your dates

2nd International Conference on

Battery and Fuel Cell Technology

July 21-22, 2017 Rome, Italy

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