



3rd International Conference on
**Battery and
Fuel Cell Technology**

September 10-11 | London, UK

UK: Conference Series Ilc LTD
47 Churchfield Road, London, W3 6AY
Toll Free: +0-800-014-8923



Scientific Program

DAY-1

September 10, 2018

Meeting Hall: **Atlantis 2**

08:30-09:00 Registrations

Opening Ceremony 09:00-09:25

KEYNOTE FORUM

09:25-09:30 Introduction

09:30-10:15 **Title: Theories on the on-board lithium-ion battery electric power generator for infinite cruising range vehicle**
Katsutoshi Ono, Kyoto University, Japan

10:15-11:00 **Title: New materials for electrochemical storage - from post Li ion to post Li systems**
Maximilian Fichtner, Helmholtz Institute Ulm, Germany

VIDEO PRESENTATION

11:00-11:05 **Title: Tomorrow's rechargeable batteries**
John B Goodenough, University of Texas, USA

Networking & Refreshments 11:05- 11:25 @ Foyer

GROUP PHOTO : 11:25-11:35

**Sessions: New Battery Technologies | Lithium Batteries | Battery Management System | Super Capacitors
Advanced Energy Materials**

Chair: Margret Wohlfahrt-Mehrens, ZSW, Germany

INTRODUCTION

11:35-12:00 **Title: Materials development for advanced Li ion batteries**
Margret Wohlfahrt-Mehrens, ZSW, Germany

12:00-12:25 **Title: Li-ion battery research: Current status at C-MET and future plans**
Milind V Kulkarni, Centre for Materials for Electronics Technology, India

12:25-12:50 **Title: Electrolyte chemistry of Mg rechargeable batteries**
Tianbiao Leo Liu, Utah State University, USA

12:50-13:15 **Title: Current challenges in fabrication and operation of oxide-based all-solid-state Li-batteries**
Martin Finsterbusch, Forschungszentrum Juelich GmbH, Germany

Lunch Break 13:15-14:15 @ Hotel Restaurants

14:15-14:40 **Title: MOBICUS project: Battery ageing testing, modelling, and strategies for improved durability**
Philippe Gyan, Groupe RENAULT, France

14:40-15:05 **Title: Study on the test platform of the battery management system for the large-scale lithium battery energy storage**
Changhee Cho, KERI, South Korea

15:05-15:30 **Title: Current situation of spent lithium-ion battery recycling in China**
Fu-Shen Zhang, University of Chinese Academy of Sciences, China

15:30-15:55 **Title: Lattice elastic and plastic deformation restoring stability in silicon carbide film anode of secondary lithium battery**
Zhang Hongtao, Hubei University of Technology, China

Networking & Refreshments 15:55-16:15 @ Foyer

16:15-16:40 **Title: Defect and interface induced Li/Na-ion storage in nano-engineered electrodes**
Vinodkumar Etacheri, IMDEA Materials Institute, Spain

16:40-17:05 **Title: The role of atomic bond strengths and structural disorder in cathode materials for rechargeable ion-batteries**
Wojciech Olszewski, ALBA Synchrotron Light Facility, Spain

17:05-17:30 **Title: Developing, testing and analyzing new Li-Ion battery solutions using an integrated R&D infrastructure**
Alexandru Ciocan, ICSI, Romania

Panel Discussion

DAY-2

September 11, 2018
Meeting Hall: **Atlantis 2**

KEYNOTE FORUM

09:30-10:15 **Title: Semiconductor and Semiconductor-ionic materials for new generation fuel cells**
Bin Zhu, Hubei University, China

10:15-11:00 **Title: Novel electrolyte-layer free fuel cell technology as an alternative of conventional fuel cell technology**
Muhammad Afzal, KTH Royal Institute of Technology, Sweden

Networking & Refreshments 11:00-11:20 @ Foyer

Sessions: Fuel Cell Technologies | Applications of Fuel Cells | Electric Vehicles | Hydrogen Energy | Lithium Batteries

Chair: Muhammad Afzal, KTH Royal Institute of Technology, Sweden

11:20-11:45 **Title: Catalyst Coated Membrane (CCM) with a Microporous Layer (MPL) attached for Polymer Electrolyte Fuel Cells (PEFCs)**

Toshihiro Tanuma, Asahi Glass Research Center, Japan

11:45-12:10 **Title: Doped lanthanum create catalytic materials for fuel cell applications**

Naveed K Janjua, Quaid-i-Azam University Islamabad, Pakistan

12:10-12:35 **Title: Insight into the degradation of polymer based fuel cells**

Katharina Hengge, Max-Planck-Institut für Eisenforschung GmbH, Germany

12:35-13:00 **Title: New methodology developments based on electrochemical noise analysis of PEMFC**

Anthony Thomas, Pprime Institute, France

Lunch Break 13:00-14:00@Hotel Restaurants

14:00-14:25 **Title: Impacts of cell reversal on Li-Ion batteries in western world and it's significant**

Bernice Amponsa, Rana Motors, Ghana

14:25-14:50 **Title: Selection of safe salt-in-carbonate electrolytes for lithium-ion batteries**

Zhengqi Wang, Karlsruhe Institute of Technology, Germany

14:50-15:15 **Title: *In situ* synthesis of 3DC-NiS₂-CNTs as a multi-functional host for Li-S batteries**

Ning Wang, Tianjin University, China

POSTER PRESENTATIONS 15:15-15:45 @ FOYER

Networking & Refreshments 15:45-16:05 @ Foyer

PANEL DISCUSSION

Awards & Closing Ceremony

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4th International Conference on

Battery and Fuel Cell Technology

May 30-June 01, 2019 Barcelona, Spain

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