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Scientific Program

21st International Conference on
**Advanced Energy
Materials and
Research**

July 11-12, 2019 | Zurich, Switzerland

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DAY-1

July 11, 2019

Meeting Hall: **London I**

08:00-08:30 Registrations

Opening Ceremony 08:30-09:00

KEYNOTE FORUM

Introduction

- 09:00-09:40 **Title: Reactive plasma processes for formation of high-mobility IGZO thin-film transistors**
Yuichi Setsuhara, Osaka University, Japan
- 09:40-10:20 **Title: Material synthesis and optimization for high performance triboelectric nanogenerators**
Jikui Luo, University of Bolton, UK
- 10:20-11:00 **Title: Charge density distribution as a tool for understanding relationships between structure and properties of thermoelectrics**
Pascal Boulet, Aix-Marseille University, France

GROUP PHOTO

Networking & Refreshments 11:00-11:15 @ Banquet Foyer

Sessions: Advanced Energy Materials | Solar Energy Materials | Advanced Graphene & 2D Materials | Advanced Nanomaterials | Hydrogen Energy and Fuel Cell Technology | Energy Harvesting Materials

Chair: Marie-Christine Record, Aix-Marseille University, France

Co-Chair: Mineo Hiramatsu, Meijo University, Japan

INTRODUCTION

- 11:15-11:45 **Title: Investigation of the $\text{CuIn}_{1-x}\text{Al}_x\text{Se}_2$ structure-properties relationships by coupling density functional and Bader's theories**
Marie-Christine Record, Aix-Marseille University, France
- 11:45-12:15 **Title: Electrochemically fabricated substrate dependent smart electrocatalysts Ni-Fe double and Ni-Co-Fe triple hydroxides for efficient water splitting to oxygen and hydrogen**
Shahed U M Khan, Duquesne University, USA
- 12:15-12:45 **Title: Synthesis of vertical graphene network as platform for electrochemical applications**
Mineo Hiramatsu, Meijo University, Japan
- 12:45-13:15 **Title: Magnetic instability in heavily n-doped Fe-based full Heusler compounds: Origin and impact on thermoelectric properties**
Fabio Ricci, University of Liège, Belgium

Lunch Break 13:15-14:00 @ Banquet Foyer

- 14:00-14:30** **Title: Ceramic based thermoelectric materials processed by laser**
N M Ferreira, Universidade de Aveiro, Portugal
- 14:30-15:00** **Title: A framework for critically assessing the ideality of carrier-selective contacts for solar cells**
Gabriel J Man, Uppsala University, Sweden
- 15:00-15:30** **Title: Photonic time crystal in exciton-polariton condensates**
Szu-Cheng Cheng, Chinese Culture University, Taiwan
- 15:30-16:00** **Title: Studies of (Pb, La)(Zr, Sn, Ti)O₃ antiferroelectric single crystal with high electrocaloric effect**
Qiang Li, Tsinghua University, China

Networking & Refreshments 16:00-16:15 @ Banquet Foyer

- 16:15-16:45** **Title: Solar PV/T integrated reversible solid oxide fuel cell system for power generation and storage**
S Ghosh, Indian Institute of Engineering Science and Technology, India
- 16:45-17:15** **Title: Semiconductor nanostructure engineering for solar hydrogen production**
Sabiha Akter Monny, The University of Queensland, Australia
- 17:15-17:45** **Title: Magnesium ferrite/polyvinyl alcohol (PVA) nanocomposites: Fabrication and characterization**
Gulfam Nasar, Balochistan University of Information Technology, Engineering and Management Sciences, Pakistan

Panel Discussion

DAY-2

July 12, 2019



Meeting Hall: London I

POSTER PRESENTATIONS 11:00-12:30 @ FOYER

Poster Judge: Pascal Boulet, Aix-Marseille University, France

AEM-01 **Title: Attempt to repair sanitary ware pieces by laser technology**
N M Ferreira, Universidade de Aveiro, Portugal

AEM-02 **Title: Influence of aged sol and annealing temperature on the physical properties of super-hydrophobic TiO₂ thin films**
Su-Shia Lin, National Chi Nan University, Taiwan

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- AEM-03** **Title: Hurricane wave energy harvesting**
Mahpara Habib, University of Pittsburgh, USA
- AEM-04** **Title: Nitrogen free oxygen doped carbon nanotubes for oxygen reduction reaction**
Roopathy Mohan, Ariel University, Israel
- AEM-05** **Title: High surface area carbon supported PtPdSn for methyl formate, methanol and formic acid oxidation**
Svetlana Lyssenko, Ariel University, Israel
- AEM-06** **Title: Three dimensionally surface engineered carbon fiber electrodes for flexible and wearable micro supercapacitors**
Jisu Kim, Chonbuk National University, South Korea
- AEM-07** **Title: Nano interfacial regions enhanced by gel polymer electrolyte accessible electrodes for high performance flexible energy storages**
Eun Seok Song, Chonbuk National University, South Korea
- AEM-08** **Title: Correlation between densification and ferromagnetic resonance of rare-earth substituted magnetic oxides**
Alina Manzoor, Government College University Pakistan
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PANEL DISCUSSION

Lunch Break 12:30-13:30 @ Banquet Foyer

Awards & Closing Ceremony

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22nd International Conference on

Advanced Energy Materials and Research

July 15-16, 2020 Vienna, Austria

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