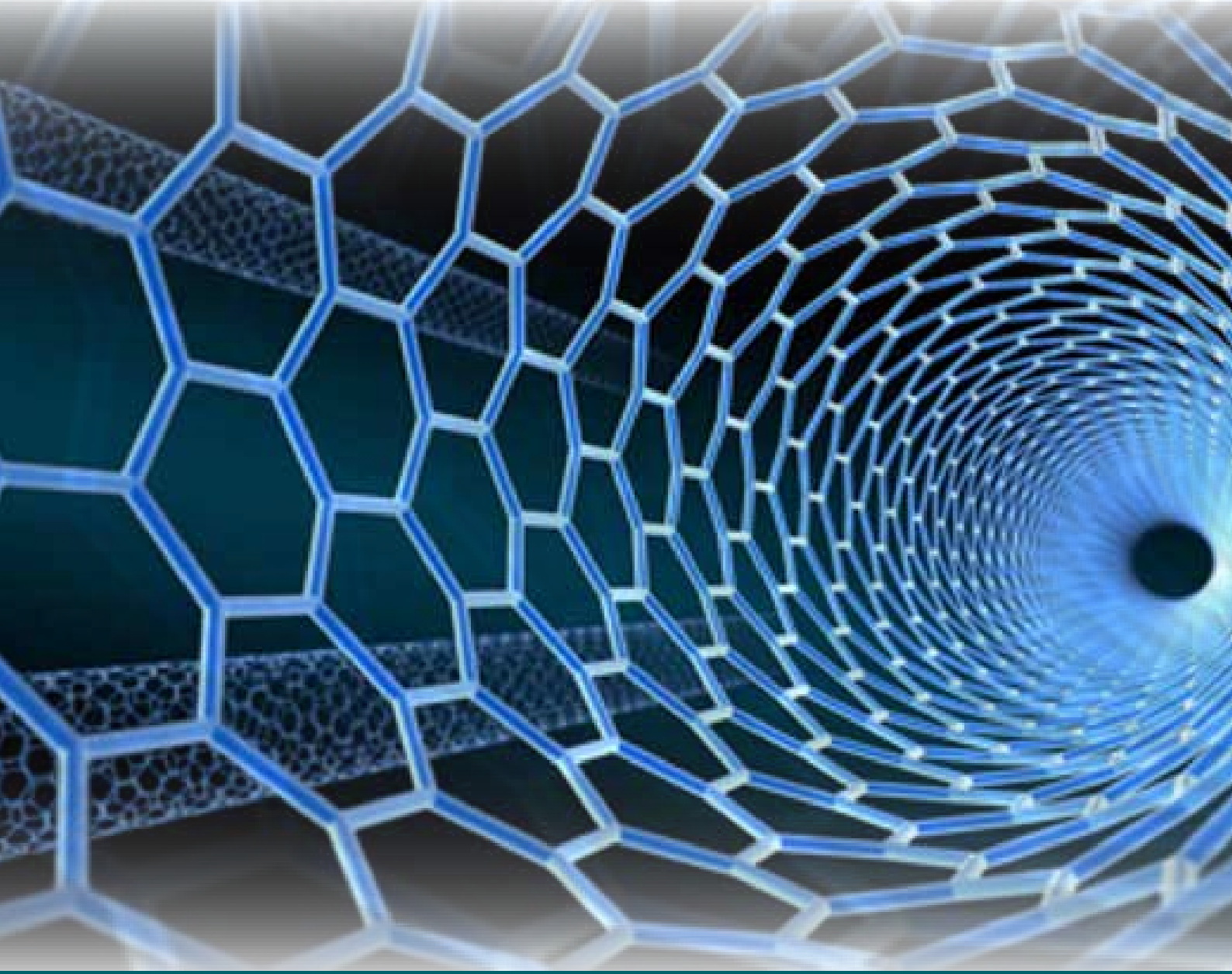
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Scientific Program

22nd International Conference and Exhibition on

ADVANCED MATERIALS AND NANOTECHNOLOGY

September 19-21, 2018 Tokyo, Japan



Hosting Organization: Conference Series LLC LTD

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Day 01 September 19, 2018

08:00-08:30 Registrations

Meeting Room 1

conferenceseries.com **09:00-09:25 Opening Ceremony**

Keynote Forum

09:25-09:30 Introduction

09:30-10:10 **Title: Morphology control for nanophase separation structures and application to electronic devices**

Takehito Kato, National Institute of Technology, Oyama College, Japan

10:10-10:50 **Title: Advancement in materials engineering at Swansea University: A journey into the Future**

Zakaria Abdallah, Swansea University, United Kingdom

Group Photo

Networking & Refreshments Break: 10:50-11:10

Session:
Advanced Materials and Functional Devices | Composite Materials | Nanotechnology-Basics to Applications | Engineering Materials | Nanoparticle Synthesis and Applications

Session Introduction

Session Chair: Nouria fatah, Unit of Catalysis and Solid Chemistry, France

11:10-11:40 **Title: New application of mechanical coating process without solvent for Fischer-Tropsch synthesis**

Nouria Fatah, Unit of Catalysis and Solid Chemistry, France

11:40-12:10 **Title: Toughening of nanocomposites for applications in cryogenic fuel tank**

Mohammad S Islam, The University of New South Wales, Australia

12:10-12:40 **Title: Highly efficient for fully printable organic-inorganic hybrid bulk heterojunction thin-film solar cells based on metal-alkoxides**

Takehito Kato, National Institute of Technology, Oyama College, Japan

12:40-13:10 **Title: Quantitative characterization of the crystallinity of polycrystalline materials by applying electron back-scatter diffraction**

Hideo Miura, Tohoku University Fracture and Reliability Research Institute, Japan

Lunch Break: 13:10-14:00

14:00-14:30 **Title: Optimisation of mechanical properties for a gear steel alloy for aero-engine applications**

Zakaria Abdallah, Swansea University, United Kingdom

14:30-15:00 **Title: Large-scale synthesis of functional nanoparticles using a coaxial turbulent jet mixer**

Jong-Min Lim, Soonchunhyang University, Republic of Korea

15:00-15:30 **Title: Effect of Nb_2O_5/Ni catalysis on the kinetics behavior of MgH_2 solid-hydrogen storage system**

Mohammad Banyan, Kuwait Institute for Scientific Research, Kuwait

Young Researchers Forum

15:30-16:00 **Title: Enhancing transport properties of n-type Bi_2Te_3 based alloys via doping for thermoelectric power generation applications**

Omer Meroz, Ben-Gurion University of the Negev, Israel

Networking & Refreshments Break: 16:00-16:20

16:20-16:50 **Title: Investigation on the nature of the verwey transition in Cu-doped Fe_3O_4**

Yousef Kareri, University of New South Wales, Australia

16:50-17:20 **Title:Study on size variations of liposomes under osmotic pressure using Asymmetrical Flow Field-Flow Fractionation(AsFlFFF) - Multi Angle Light Scattering (MALS)**

Minwook Kim, Hannam University, Republic of Korea

Panel Discussions

Day 2 September 20, 2018	
Meeting Room 1	
Keynote Forum	
09:30-10:10	**Title: Nanomaterials in polymer composites for applications from aerospace and corrosion protection to energy storage** **Mohammad S Islam,** The University of New South Wales, Australia
Session Chair: Do Sung Huh, Center for Nanomanufacturing Inje University, Republic of Korea	
10:10-10:40	**Title: F-HPPF- Functionalization of honeycomb-patterned porous polymer films using a reactive vapor in breath figure method** **Do Sung Huh,** Center for Nanomanufacturing Inje University, Republic of Korea
Networking & Refreshments Break: 10:40-11:00	
Young Researchers Forum	
11:00-11:30	**Title: Anion-exchange membrane with highly cross-linking and high ion-aggregation for non-aqueous vanadium redox flow batteries** **Hu-Geun Kwon,** Hannam University, Republic of Korea
11:30-12:00	**Title: Binary planet–satellite nanostructures using raft polymer** **Wentao Peng,** Georg-August-Universität Göttingen, Germany
12:00-12:30	**Title: Novel polymer electrolyte membrane which proton conductive channel being constructed by core-shell type hybridized silica nanofillers** **Keiji Shito,** Yamagata University, Japan
Lunch Break: 12:30-13:30	
Poster Presentations Posters AMS01-AMS15 @ 13:30-15:30	
Poster Judges: Mohammad S Islam, The University of New South Wales, Australia **Do Sung Huh,** Center for Nanomanufacturing Inje University, Republic of Korea	
AMS01	**Title: Characterization of the ZrS2 van der Waals crystal using AFM and optical spectroscopy methods** **Jaroslaw Serafinczuk,** Teodor Gotszalk Wroclaw University of Science and Technology, Polanda
AMS02	**Title: Measuring nanoscale dynamics of grafted raft polymer using metal-induced energy transfer** **Katharina Dabow,** Georg-August-Universität Göttingen, Germany
AMS03	**Title: Silica-coated magnetite nanoparticles carrying a high density polymer brush shell of hydrophilic polymer** **Yingying Cai,** Georg-August-Universität Göttingen, Germany
AMS04	**Title: Synthesis and functionalization of nano-catalysts for using a fluidized-bed reactor type powder atomic layer deposition** **Se Hun Kwon,** Pusan National University, Republic of Korea
AMS05	**Title: Transition metal dichalcogenide based electrospun fibers formation as a potential for gas sensor** **Doo-hyeb Youn,** Electronics and Telecommunications Research Institute, Republic of Korea
AMS06	**Title: Development of Neighborhood Electric Vehicle (NEV) light weight body based on substantiation** **Song Hyun Soo,** Ulsan Technopark, Republic of Korea
AMS07	**Title: Multifunctional superhydrophobic surfaces with carbon nanotubes by direct patterning of conducting pastes** **Junghoon Kim,** Korea Electrotechnology Research Institute, Republic of Korea
AMS08	**Title: A study on gas adsorption using surface-modified porous carbon composite materials** **Jihyun Bae,** Hannam University, Republic of Korea
AMS09	**Title: Preparation of metal-complexed mesoporous carbon membrane using monodispersed silica nanoparticles** **Jihyun Bae,** Hannam University, Republic of Korea

AMS10	**Title: Development of QCM sensor based on β-CD with thiol functional group for sensing 2-nonenal** **Hak-Jun Do**, Hannam University, Republic of Korea
AMS11	**Title: Synthesis and characterization of highly conductive nanoparticle copper ink for inkjet printing** **Eonju Lee**, Yeungnam University, Republic of Korea
AMS12	**Title: Influence of black phosphorus thin films deposited by inkjet printing process for optoelectronics** **Ho Young Jun**, Yeungnam University, Republic of Korea
AMS13	**Title: Improved electrochromic performance of tungsten-oxide electrode film deposited by vacuum cathodic arc plasma** **Sheng-Chuan Hsu**, Institute of Nuclear Energy Research, Taiwan
AMS14	**Title: Research of piezopolymer cells from polypropylene and mineral fillers for their application to sensors and harvesting energy** **Ewa Klimiec**, Institute of Electron Technology, Poland
AMS15	**Title: Durability of composite polyethylene electrets - a way of calculating the activation energy of depolarization processes** **Grzegorz Kolaszczynski**, Institute of Electron Technology, Poland

Panel Discussions

Awards and Closing Ceremony

Day 3 September 21, 2018

Meeting Room 1

B2B Meetings and Networking Lunch 12:30-13:30

