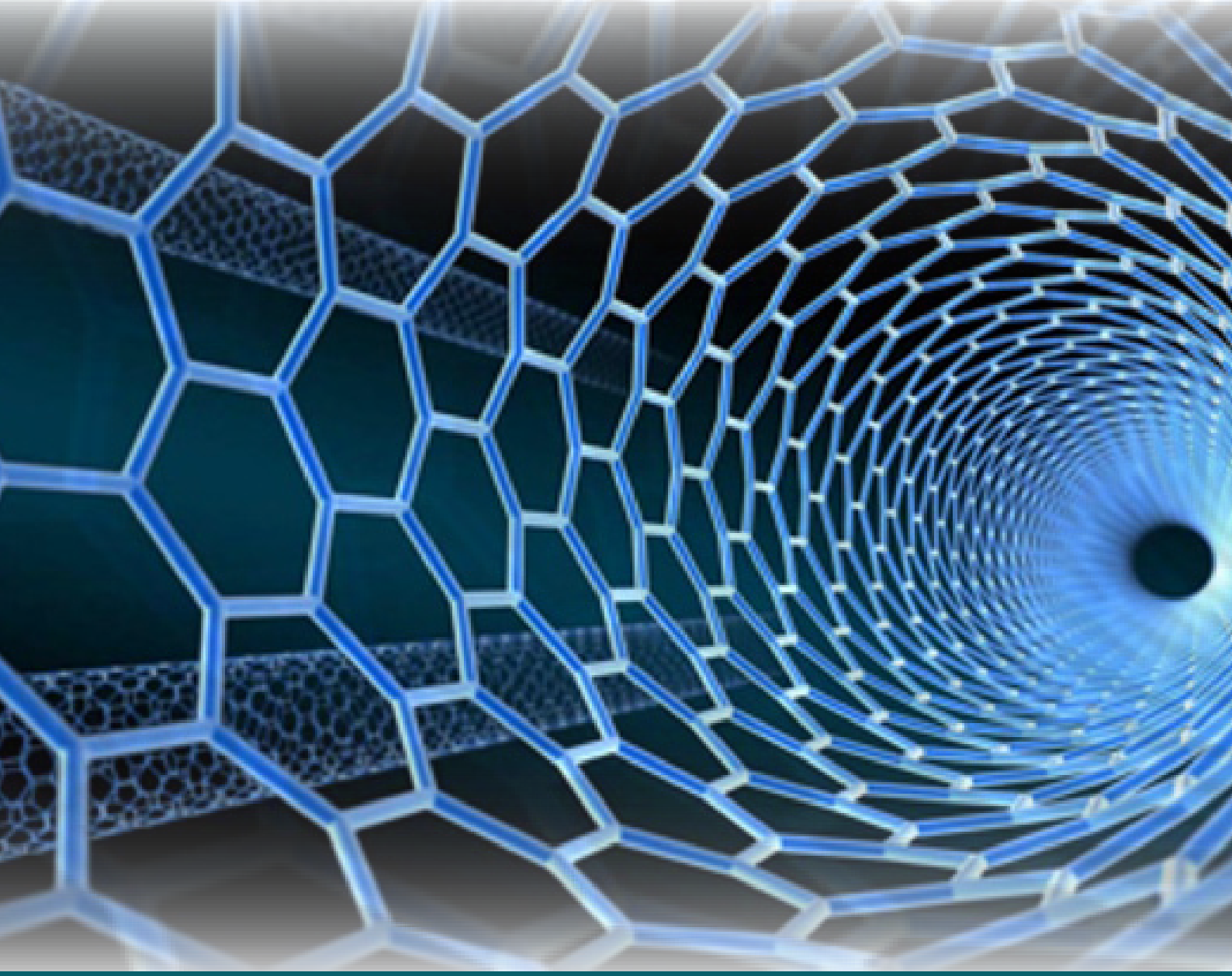
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Scientific Program

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 3

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, 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

Sessions:
Advanced Materials and Functional Devices | Composite Materials

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, 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 Nb2O5/Ni catalysis on the kinetics behavior of MgH_2 solid-hydrogen storage system

Mohammad Banyan, Kuwait Institute for Scientific Research, Kuwait

15:30-16:00 Title: Optimization of 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(AsFIFFF) - Multi angle light scattering (MALS)

Minwook Kim, Hannam University, Republic of Korea

Panel Discussion

Day 2 September 20, 2018

Meeting Room 3

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
10:10-10:50	**TBA** **TBA**

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

Young Research Forum

Session Chair: Do Sung Huh, Center for Nanomanufacturing Inje University, Republic of Korea

11:10-11:40	**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
11:40-12:10	**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
12:10-12:40	**Title: Binary Planet–Satellite Nanosctures Using RAFT Polymer** **Wentao Peng,** Georg-August-Universität Göttingen, Germany
12:40-13:00	**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: 13:00-14:00

Poster Presentations @ 14:00-16:00

AMS01	**Title: Characterization of the ZrS_2 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 Discussion

Awards and Closing Ceremony

Day 2 September 21, 2018

Meeting Room 3

Networking and B2B Meetings

