

Scientific Program

3rd *International Conference on*
ADVANCED MATERIALS SCIENCE
&
NANO TECHNOLOGY

Singapore
August 18-19, 2022

Hotel Grand Central

Day-1 (August 18, 2022)

Hall Name: Hotel Grand Central

09:15-09:45 **Registrations**

09:45-10:00 Welcome Speech & Opening Ceremony

Special Session @ Plenary Talk

10:00-10:45 Title: Soft dendritic microparticles with unusual adhesion and structuring properties
Prof. Simeon D. Stoyanov, Singapore Institute of Technology, Singapore.

Keynote Forum

10:45-11:20 Title: Teaching and Learning aspects of Supramolecular Materials Chemistry: PCK approach to Identify Alternative Conceptions
Dr. Bellam Sreenivasulu, National University of Singapore, Singapore.

Coffee break 11:20-11:30

Oral Forum

11:30-12:00 Title: Ceramic Electrolytes for All Solid-State Na-ion Batteries
Dr. Sushmita Dwivedi, National University of Singapore, Singapore.

12:00-12:20 Title: A Study on the Characteristics of Direct Heating Catalyst Activities Using Induction Heating System
Younghee Jang, Kyonggi University, South Korea.

12:20-12:50 Title: Cathode Materials for Na-ion Batteries
Aniruddh Ramesh, National University of Singapore, Singapore.

Group Photo 12:50-13:00

Lunch 13:00-14:00

Keynote Forum

14:00-14:35 Title: Progress towards all solid state Lithium Sulphur battery
Dr. R. Prasada Rao, National University of Singapore, Singapore.

Oral Forum

14:35-15:05 Title: Grafted Mesoporous Silica Nanoparticles as Targeted Drug Delivery Materials Triggered by pH for Cancer Treatment
Windy Ayu Lestari, Universitas Sebelas Maret, Indonesia.

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Coffee Break 15:05-15:20

Poster Presentations

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| 15:20-15:30 | Title: Efficient Delivery of Genome-editing Molecules via Multi-step Transforming Properties of Aminated Polyrotaxanes
Dr. Taishi Higashi , Kumamoto University, Japan. |
| 15:30-15:40 | Title: Facile Synthesis of Au-Ag Core-shell Nanoparticles and Dual Application to Colorimetric and SERS Detection of Catecholamine Neurotransmitters
Le Thanh Van , Gachon University, South Korea. |
| 15:40-15:50 | Title: Dual-targeting for Colon Cancer Cells and Tumor-Associated Macrophages by Mannose- modified Methyl- α -Cyclodextrin as an Antitumor Agent
Yoshitaka Ohno , Kumamoto University, Japan. |
| 15:50-16:00 | Title: A study on colorimetric reaction of cysteine-encapsulated liposome with plasmonic gold nanoparicles for virus detection appliations
Youkyoung Yang , Gachon University, South Korea. |
| 16:00-16:10 | Title: Feasibility Study of Cationic Dendrimer-based Polyplex as a Multi-functional Drug for Alzheimer's Disease
Masamichi Inoue , Kumamoto University, Japan. |
| 16:10-16:20 | Title: Fabrication and characterization of highly biocompatible silica nanocarriers with pH-responsive and controlled release of naturally-derived Dieckol molecules
Taelin Kim , Gachon University, South Korea. |
| 16:20-16:30 | Title: Cascading hybrids of 0D/2D SnO ₂ Quantum dots/CdS-CdCO ₃ decorated with g-C ₃ N ₄ nanosheets for significantly enhanced photocatalysis under solar light
Jinhyeok Lee , Gachon University, South Korea. |
| 16:30-16:40 | Title: Silver-Enriched Porous Silicon Chip for Sensitive and Quantitative Detection of Dopamine Neurotransmitter in Human Serum as Surface-enhanced Raman Spectroscopy
Youngju Gwon , Gachon University, South Korea. |
| 16:40-16:50 | Title: Labelled Mesoporous Silica Nanoparticles Functionalized as Theragnostic Materials for Cancer Treatment
Dyah Ellyawati K.M , Universitas Sebelas Maret, Indonesia. |

Closing Ceremony and Certificate Distribution

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VIRTUAL PRESENTATIONS
August 19, 2022

DAY 2- AUGUST 19, 2022

VIRTUAL PRESENTATIONS

PLENARY TALK 10:30- 11:05	Title: Nanostructures for Energy and Environmental Applications: A Sustainable Approach Prof. Bunsho Ohtani , Hokkaido University, Japan.
KEYNOTE TALK 11:05 - 11:40	Title: Evaluation for Infectivity of Materials - to develop antibacterial, antiviral, and antibiofilm materials Dr. Hideyuki Kanematsu , National Institute of Technology (KOSEN), Suzuka College, Japan.
11:40 - 12:05	Title: Enhanced Performance of Triboelectric Nanogenerator Based on Flexible Polyurethane Foam Neda Asgarifar , Universiti Kebangsaan Malaysia, Malaysia.
12:05 - 12:30	Title: Nanostructures for Energy and Environmental Applications: A Sustainable Approach Dr. Mohammad Ehtisham Khan , Jazan University, Saudi Arabia.
12:30 - 12:55	Title: 2-dimensional Ti ₃ C ₂ for bistable switching memory application Dr. Poh Choon Ooi , Universiti Kebangsaan Malaysia, Malaysia.

LUNCH 12:55-13:30

13:30 - 14:00	Title: In Situ Synthesis, Encapsulation in Arabinoxylan and Release Kinetics of Mzicrocrystalline Copper(II)-Aspirinate Dr. Abdul Haleem Khan , Forman Christian College University, Pakistan.
14:00- 14:25	Title: Gene expression analysis of synthesized Cynodon dactylon gold nanoparticlesin Colon cancer cell lines Dr. Nagaraja Suryadevara , Universiti Kebangsaan Malaysia, Malaysia.
14:25- 14:50	Title: Micro level corrosion investigation in electronic devices Dr. Umadevi Rathinavelu , Denmark Technological University, Denmark.
14:50- 15:15	Title:Lanthanide Nanoparticles in Mass Cytometry Dr. Mahnaz Maddahfar , University of Technology Sydney, Australia
15:15- 15:40	Title: Enhancement in magnetization of two-dimensional Cobalt Telluride and its magnetic field-assisted photocatalytic activity Solomon Demiss Negedu , Jimma University, Ethiopia.

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15:40- 16:05 Title: Use of Silver Nanoparticles to Remediate Industrial Wastewater from Effluent Treatment Plant
Joshua Buetey Amsimeku, University of Cape coast, Ghana.

16:05- 16:30 Title: Use of Silver Nanoparticles to Remediate Industrial Wastewater from Effluent Reduction of Toxic Dyes Using Recyclable Core Shell Nanoparticles Catalyst
Dr. Khalida Naseem, University of Central Punjab, Pakistan

Closing Ceremony

STAY CONNECTED



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