

Final Program



***International Conference on Graphene
and 2D Materials***

***International Conference on
Semiconductors,
Optoelectronics and Nanostructures***

***International Conference on
Polymers and Composite Materials***

Conference Dates & Venue

November 04, 2024 | Vancouver, Canada

ICG2DM-2024 | ICSON-2024 | ICPCM2024

Day-01 | November 04, 2024

09:00 - 09:30

On Spot Registrations

Chair **Ahmed Al-Jumaily**, Auckland University of Technology, Newzealand

Co - Chair **Shaowei Zhang**, University of Exeter, UK

Plenary Presentations

09:30-10:10 **P** **Title:** Novel Synthesis, Characterization and Application of Graphene and Its 2-D Counterparts

Shaowei Zhang, University of Exeter, UK

10:10-10:50 **P** **Title:** Graphene Barrier Coating Industrialization for Ai/Cu Foil Used in Li-B Electrode

Sivasambu Bohm, Imperial College London, UK

10:50-11:05

Refreshment Break

11:05-11:45 **P** **Title:** Smart Polymers for Lung Self-Humidification

Ahmed Al-Jumaily, Auckland University of Technology, Newzealand

11:45-12:25 **P** **Title:** Smart, Portable and Fast Acute Myocardial Infarction Detection Using Graphene FET

Wamadeva Balachandran, Brunel University, London

12:25-13:05 **P** **Title:** Flame Retardant Designs, Fire Proof Coatings and Composites for Wind Power Generation and High-Voltage Power Transmission Segments of a Smart Grid

Fei You, Nanjing Tech University, China

13:05-14:05

Group Photo

Lunch Break

14:05-14:45

P *Title:* Dimensionality Control and Magnetic Structure of Chiral Magnetic Materials

Katsuya Inoue, Hiroshima University, Japan

14:45-15:25

P *Title:* Chemical Grafting of Polymers as a Tool for Fabrication of Functional Surfaces

Elizabeth Amir, Shenkar University, Israel

Keynote Presentations

15:25-15:55

K *Title:* Nanomaterials-Based Electrochemical Sensors for Detecting Disease Biomarkers

Matiar R. Howlader, McMaster University, Canada

15:55-16:10

Refreshment Break

16:10-16:40

K *Title:* 2D Materials-Based Electrodes for Energy Storage Devices

Nilanthy Balakrishnan, Keele University, UK

Invited Presentations

16:40-17:00

I *Title:* Graphene Synthesis in Inductively Coupled Thermal Plasma Reactor Using Methane Precursor

Reem Mahmoud, University of Sherbrooke, Canada

17:00-17:20

I *Title:* Wearable Sensors Based on Graphene and Its Derivatives

Tatiya Siripongprea, Chulalongkorn University, Thailand

17:20-17:50

Poster Presentation

Poster

P1

Title: Flame-Retardant Two-Dimensional Materials for Biofuel Cell Electrodes

Hijiri Nisimura, Tokyo University of Science, Japan

Poster

P2

Title: Carrier Avalanche Multiplication Quenching and Pulse Width Control of Nonlinear Gallium Arsenide Photoconductivity Switches

Shi Wei, Xi'an University of Technology, China

Poster

P3

Title: Will be Updated Soon

Poushali Das, McMaster University, Canada

Video Presentation

17:50-18:10

Video

Title: Computational Stability and Point Defect Considerations of Graphene and Mo₂S₃-Based Transition Metal Chalcogenide

Erwin Povoden-Karadeniz, Institute of Material Science and Technology, Austria

18:10-18:30

Video

Title: Strain Engineering of Two-Dimensional Materials for Optoelectronic Applications

Hong Li, Nanyang Technological University, Singapore

18:30-18:50

Video

Title: Hybrid Prisms: Revolutionizing Optical Systems Across Spectral Ranges

Friedrich Grimm, University of Stuttgart, Germany

18:50-19:10

Video

Title: Researches of Microwave and Millimeter-Wave Integrated Circuits and System Applications

Huei Wang, National Taiwan University, Taiwan

19:10-19:30 **Video** *Title:* Will be Updated Soon

Rahul Bhattacharya, IIT(ISM) Dhanbad, India

19:30-19:50 **Video** *Title:* Nano-Graphene: Advances, Limitations, and Promises in Health

Thomas J Webster, Hebei University of Technology, China

Closing the Conference

Upcoming Conferences

2nd International Conference on
Graphene and 2D Materials

2nd International Conference on
Polymers and Composite Materials

July 24-26, 2025 | Frankfurt, Germany

