



Final Program

ISG2D2023

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

April 24-25, 2023 | Valencia, Spain



Day-1 | April 24, 2023

09:00-09:30		On Spot Registrations
Chair		James Vig Sherrill, President & CEO-General Graphene Corporation, USA
09:30-10:10	P	Title: Graphene in the Real World – From Lab to Fab James Vig Sherrill, President & CEO-General Graphene Corporation, USA
10:10-10:50	P	Title: Graphene and Graphene-Based Nanocomposites Robert J Young, University of Manchester, UK
10:50-11:05		Refreshment Breaks
11:05-11:45	P	Title: 2d-Materials-based Mixed-dimensional Heterostructures and Device Applications Suk-Ho Choi, Kyung Hee University, Korea
11:45-12:25	P	Title: Vertical Graphene Network: Synthesis and Emerging Applications Mineo Hiramatsu, Meijo University, Japan
12:25-13:05	P	Title: Making Climate Action Concrete! Michel de Ruiter, Founder-Graphene Pioneer, Netherlands
13:05-14:05		Group Photo Lunch
14:05-14:35	K	Title: Integration of Carbon Quantum Dots in Memristive Systems Niloufar Raeis-Hosseini, Cranfield University, UK
14:35-15:05	K	Title: Equilibrium and Non-equilibrium Energy Fluctuations of in-plane Acoustic Phonons, Confined Within Rectangular Flakes Valeri Ligatchev, Member of The Electrochemical Society, Singapore
15:05-15:35	K	Title: Numerical Simulation of a Highly Sensitive Waveguide-coupled Long Rang Surface Plasmon for Sensing Applications Mohssin Zekriti, Euromed University of Fes, Morocco

Scientific Sessions	Nano Materials, Electrochemistry, Graphene Based Nanocomposites, Graphene and Graphene oxide
Session Chair	Robert J Young, University of Manchester, UK

15:35-15:55	I	Title: Comparative Evaluation of the Morphological Structure and Chemical Composition of the Plastic Particles Suspended in Industrial Air
		Emilia Visileanu, National Research and Development Institute, Romania

15:55-16:15	I	Title: High-voltage Nasicon-structured Cathode Materials for the Next Generation Sodium-ion Batteries
		Abdelwahed Chari, Mohammed VI Polytechnic University, Morocco

16:15-16:30	Refreshment Breaks
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Scientific Sessions	Graphene and Graphene Oxide, Materials Science and Nano Technology, Polymer and Analytical Chemistry
Session Chair	Mineo Hiramatsu, Meijo University, Japan

16:30-16:50	I	Title: Facile and Rapid Decoration of Graphene Oxide With Copper Salts as Catalysts
		Marjan Entezar Shabestari, Sichuan University of Science and Engineering, China

16:50-17:10	I	Title: Graphene-based Electrode Materials for High Performance Lithium-ion Capacitors
		Gelines Moreno-Fernández, CIC energiGUNE, Spain

17:10-17:30	I	Title: Designing Two Donor Quinoline Derivatives for Manufacture of a Protective Film on the Surface of Carbon Steel in Environment Acid: Experimental and Theoretical Investigation
		Hicham Fakhry, Ibn Tofail University, Morocco

17:30-18:00	Poster Presentations
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	P1	Title: Wigner Molecules in Phosphorene
		Tanmay Sanjay Thakur, AGH University of Science and Technology, Poland

P2

Title: Fabrication and Characterisation of Go-pedot: Pss Nanocomposites for Supercapacitors

Carola Esposito Corcione, University of Salento, Italy

P3

Title: A Triboelectric Nanogenerator Based on Two-dimensional Molybdenum Disulphide

Fathallah Farimzadeh, Isfahan University of Technology, Iran

Closing the Conference for Day 1

Day-2 | April 25, 2023

9:30-10:10

P

Title: Analysis of Graphene and 2D Materials using Raman Spectroscopy

Robert J Young, University of Manchester, UK

10:10-10:50

P

Title: Fabrication of Graphene-based Materials Using Microwave-excited Atmospheric Pressure Plasma

Mineo Hiramatsu, Meijo University, Japan

10:50-11:05

Refreshment Breaks

11:05-11:45

P

Title: Graphene Coatings: A Disruptive Approach to Remarkable Corrosion Resistance

Raman Singh, Monash University, Australia

Scientific Sessions

Synthesis of Graphene and 2D Materials, 2D Materials for Aerospace, Polymer Science and Technology, Electrical and Mechanical Properties of 2D Materials

Session Chair

Suk-Ho Choi , Kyung Hee University, Korea

11:45-12:05

I

Title: From the Growth to the Exploitation of 2D Metal Chalcogenides

Nilanthy Balakrishnan, Keele University, UK

12:05-12:25

I

Title: Improving the Reliability Design of Mechanical Systems Such as Refrigerator

Seongwoo Woo, Ethiopian Technical University, Ethiopia

12:25-12:45	I	Title: Deformation Behavior of 2D Conductive Textile Structures
Emilia Visileanu, National Research and Development Institute, Romania		
Group Photo		
Lunch		
Scientific Sessions		Nano Carbon Materials, Nano Electronics and Micro Systems
Session Chair		Valeri Ligatchev, Senior Research Scientist, Singapore
13:45-14:05	I	Title: 3D-Printed Microfluidic Device for Bio-Sensing Applications
Nidal El Biyari, Euromed University of Fez, Morocco		
14:05-14:25	I	Title: Fabrication of Micro/Nano Carbon Spheres from Sucrose Based on Oilothermal Method With a Top-down Approach
Ghasem Rahimi, Bu-Ali Sina University, Iran		
14:25-14:45	I	Title: Graphene in Thermoelectrics
Olena Okhay, University of Aveiro, Portugal		
Closing the Conference for Day 2		



Next Event

ISG2DM2024

2nd International Summit on Graphene and 2D Materials
April 22-24, 2024 | Munich, Germany