



**Mind  
Authors**  
Scientific Conferences

# GLOBAL VIRTUAL SUMMIT ON CARBON, GRAPHENE, 0D, 1D, AND 2D MATERIALS

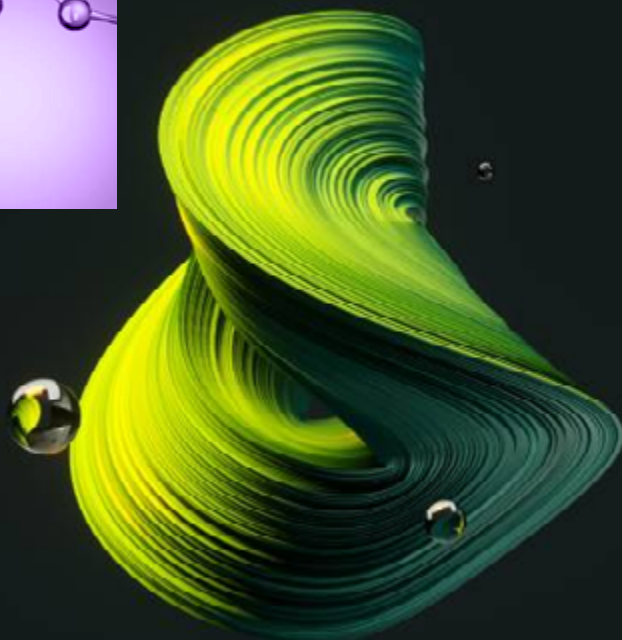
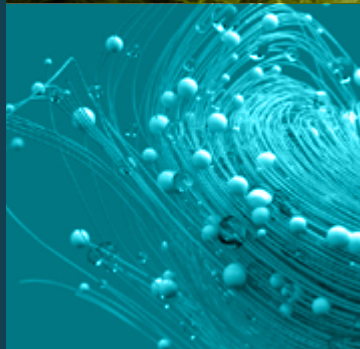
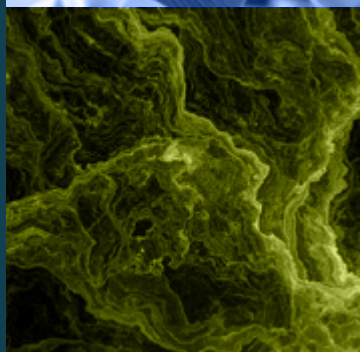
**Theme:** Contemporary Innovations and Emerging Novel  
Research in Catalysis and Chemical Engineering

**JULY 22-23, 2021**

**GRAPHENE SUMMIT 2021**



## AGENDA



| Timing  | Speaker  | Title  |
|---|--|--|
| 09:00-09:30   | <b>Open Speech</b>   |  |
| <b>Keynote Presentations (GMT Timings)</b>            |  |  |
| 09:00 - 09:40   | <b>Yusuke Yamauchi</b><br>University of Queensland, Australia  | <b>Observation of Electron Doping Induced by Aluminum Contact in Molybdenum Disulfide Multilayer Flakes</b>                                |
| 09:40 - 10:20   | <b>Igor Khmelinskii</b><br>University of Algarve, Center for Electronics, Optoelectronics and Telecommunications, Portugal | <b>Nontrivial Quantum Effects in Biology: ATP hydrolysis and Enzymatic Catalysis</b>   |
| <b>10:20-10:30 Eye Relaxation Break (GMT Timings)</b> |  |  |
| <b>Oral Presentations (GMT Timings)</b>               |  |  |
| 10:30 - 11:00   | <b>Waleed M.A. El Rouby</b><br>Materials Science and Nanotechnology Department, Egypt                                      | <b>Aerosol spray assisted synthesis of Ni doped BaTiO<sub>3</sub> hollow porous spheres/ graphene as photoanode for water splitting</b>    |
| 11:00 - 11:30   | <b>Vardan Apinyan</b><br>Institute of Low Temperature and Structure Research, Poland                                       | <b>Ultraviolet absorption spectrum of the half-filled bilayer graphene</b>   |
| 11:30 - 12:00   | <b>Malathesh Pari</b><br>Vijayanagara Sri Krishnadevaraya university, INDIA  | <b>Synthesis, Spectral Characterization and Electrochemical Determination of Nitrite Using MWCNTs-decorated Substituted Phthalocyanine</b> |
| <b>12:00-13:00 Session Break (GMT Timings)</b>        |  |  |
| 13:00 - 13:30   | <b>Catherine Kamal</b><br>School of Engineering and Material Science, Queen Mary University of London, UK                  | <b>Flow and Rheology of Sheared Graphene</b>   |
| 13:30 - 14:00   | <b>Karolina Z. Milowska</b><br>The True Amphipathic Nature of Pristine Graphene Flakes                                     | <b>The True Amphipathic Nature of Pristine Graphene Flakes</b>   |

|   |   |  |
|---|---|--|
| 14:00 - 14:30   | <b>Gil Gonçalves</b><br>TEMA, Mechanical Engineering<br>Department, University of Aveiro,<br>Potugal  | <b>Graphene-based materials on the cancer world</b>  |
| <b>14:30-15:00 Eye Relaxation Break (GMT Timings)</b> |   |  |
| <b>Keynote Presentations (GMT Timings)</b>            |   |  |
| 15:00 - 15:30   | <b>Haozhe Wang</b><br>Massachusetts Institute of<br>Technology, USA   | <b>Beyond Van der Waals Graphene-metal interactions</b>  |
| 15:30 - 16:00   | <b>Apparao M. Rao</b><br>Clemson University   | <b>Graphene microspheres for superior potassium-ion batteries</b>  |
| <b>Oral Presentations Continues.. (GMT Timings)</b>   |   |  |
| 16:00 - 16:30   | <b>Navid Alinejadian</b><br>Tallinn University of Technology<br>(TalTech), Estonia  | <b>The galvanostatic co-deposition of 3D-grown Ni-rGO nanocomposite: Redox enhancement through reduction, texture, and morphology</b>  |
| 16:30 - 17:00   | <b>Michael N. Leuenberger</b><br>NanoScience Technology Center and<br>Department of Physics, University of<br>Central Florida, Orlando, USA | <b>Plasmonically enhanced mid-IR light source based on tunable spectrally and directionally selective thermal emission from nanopatterned graphene</b>   |
| 17:00 - 17:30   | <b>Reza Askarnia</b><br>Semnan University, Faculty of<br>Materials Science, Iran of republic<br>Islamic                                     | <b>Role of Alumina/Graphene oxide Additive on mechanical property, corrosion behavior and biological properties of the Plasma Electrolytic Oxidation (PEO) Coating on the AZ91 Magnesium Alloy</b> |
| <b>----- End of Conference -----</b>                  |   |  |

*Thank You*

| Timing  | Speaker  | Title  |
|---|--|--|
| <b>Keynote Presentations</b> (GMT Timings)              |  |  |
| 09:00 - 09:40   | <b>Yoshihiro Shimazu</b><br>Department of Physics, Yokohama National University, Japan   | <b>Observation of Electron Doping Induced by Aluminum Contact in Molybdenum Disulfide Multilayer Flakes</b>                                |
| 09:40 - 10:20   | <b>Elisabetta Comini</b><br>Department fo information engineering, University of Brescia, Italy  | <b>Metal oxide 1D materials and their functionalisation for chemical sensors</b>   |
| 10:20 - 11:00   | <b>Maurizio Galimberti</b><br>Politecnico di Milano, Department of Chemistry Materials and Chemical Engineering "Giulio Natta", Italy        | <b>Edge functionalization of graphene layers with biobased molecules</b>   |
| <b>11:00 - 11:30 Eye Relaxation Break</b> (GMT Timings) |  |  |
| <b>Oral Presentations</b> (GMT Timings)                 |  |  |
| 11:30 - 12:00   | <b>Pramoda Kumar Nayak</b><br>Department of Physics, 2D Materials Research and Innovation Group and Micro Nano and Bio-Fluidics Group, India | <b>Tunable Exciton-trion State in Twisted Bilayer WSe<sub>2</sub></b>  |
| 12:00 - 12:30   | <b>Malathesh Pari</b><br>Vijayanagara Sri Krishnadevaraya university ballari-583105, Karnataka, INDIA  | <b>Synthesis, Spectral Characterization and Electrochemical Determination of Nitrite Using MWCNTs-decorated Substituted Phthalocyanine</b> |
| 12:30 - 13:00   | <b>Arunima Singh</b><br>Department of Physics, Indian Institute of Technology Delhi, New Delhi, India  | <b>MoS<sub>2</sub> and Janus (MoSSe) based van der Waals heterostructures as an emerging direct Z-scheme photocatalysts</b>                |
| 13:00 - 13:30   | <b>Piyush Kumar Patel</b><br>Maulana Azad National Institute of Technology Bhopal, India   | <b>Device Simulation of Highly Efficient Eco-Friendly Solar Cell</b>   |
| <b>13:30 - 14:00 Session Break</b> (GMT Timings)        |  |  |

## Keynote Presentations *(GMT Timings)*

|               |  |   |
|---------------|--|---|
| 14:00 - 14:40 | <b>Deepa Kodali</b><br>Department of Materials Science and Engineering, Tuskegee University, USA | <b>Synthesis and characterization of carbon from coconut shell powder</b> |
| 14:40 - 15:20 | <b>Umberto Berardi</b><br>Ryerson University, Canada   | <b>Title is Missing</b>   |
| 15:20 - 16:00 | <b>Roger M. Leblanc</b><br>University of Miami, USA  | <b>Carbon Dots as Versatile Drug Nanocarriers in Modern Medicine</b>      |

## 16:00 - 16:20 Eye Relaxation Break *(GMT Timings)*

## Oral Presentations Continues.. *(GMT Timings)*

|               |   |   |
|---------------|---|---|
| 15:40 - 16:10 | <b>Yiqun Zhou</b><br>University of Miami, USA   | <b>Recent Progress of Carbon Dots in Nanomedicine and Photocatalysis</b>  |
| 16:10 - 16:40 | <b>Hassan Alamgholiloo</b><br>Department of Organic Chemistry, Faculty of Chemistry, Urmia University | <b>A facile strategy for designing of GO/CuMOF-magnetic ternary nanocomposite: A novel insight into ciprofloxacin removal from wastewater</b> |
| 16:40 - 17:10 | <b>Necdet Karakoyun</b><br>Van Yuzuncu Yil University, Turkey   | <b>Aromaticity of substituted graphene fragments-A computational study</b>  |
| 17:10 - 17:40 | <b>Yuksel AKINAY</b><br>Van Yuzuncu Yil University, Science and Research Application Centre, Turkey   | <b>Synthesis of BaO Modified MXene catalyst for the hydrogen evolution reaction</b>   |

---- End of Conference ----

*Thank You*