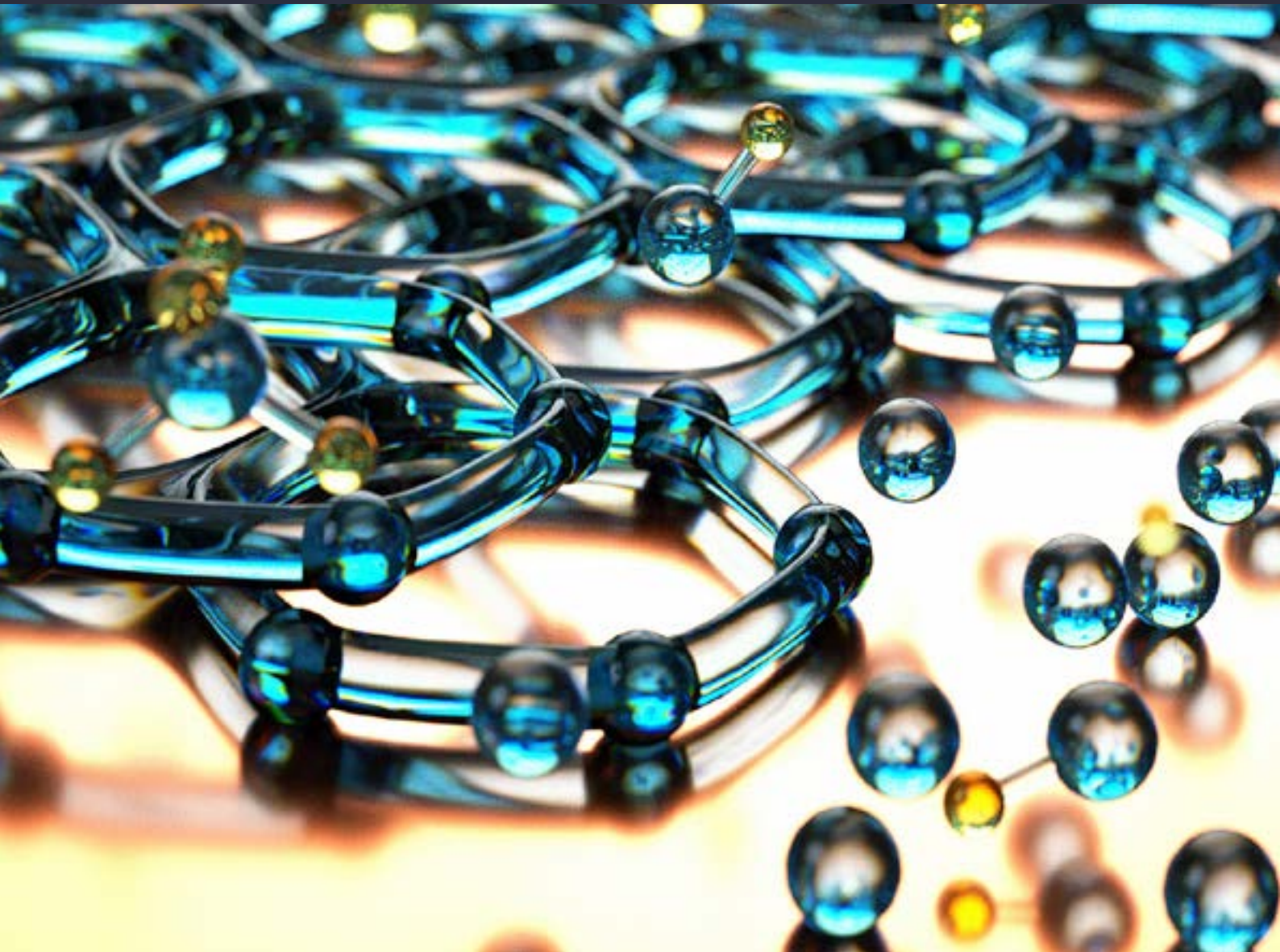


Scientific Program

Global Conference on

Carbon Nanotubes and Graphene Technologies

March 28-29, 2019 | Milan, Italy



Scientific Federation

1-8-506/2/B, Begumpet, Hyderabad-500016, India

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Day 1 March 28, 2019

Carmen

08:30-09:30 Registrations

09:30-10:00 Introduction & Opening Ceremony

Plenary Forum

10:00-10:40 **Title: Graphene-Based Nanocomposites with Polymer Ferroelectrics: Modeling and Computational Studies**

Vladimir S. Bystrov, Keldysh Institute of Applied Mathematics, Russia

10:40-11:20 **Title: Catalytic and Photocatalytic Applications of Graphene Oxide-GO and Carbon Nano Tubes-CNT in Carbon Recycling**

Michele Aresta, IC2R and CIRCC, Italy

Networking & Refreshments Break 11:20-11:35 @ Foyer

11:35-12:15 **Title: Recent Results of Supercapacitor for the Next Generation based on RGO And CNT**

Hee-Je Kim, Pusan National University, South Korea

12:15-12:55 **Title: Single-Walled Carbon Nanotubes: From Synthesis to Applications**

Albert G. Nasibulin, Skolkovo Institute of Science and Technology, Russia

12:55-13:00

Group Photo

Lunch Break 13:00-14:00 @ Restaurant

Keynote Forum

Session Chair **Vladimir S. Bystrov, Keldysh Institute of Applied Mathematics, Russia**

Session Co-chair **Michele Aresta, IC2R and CIRCC, Italy**

14:00-14:30 **Title: Exploring Graphene Growth from Soybean Oil and its Application in Fiber Optic Corrosion Sensors**

Genda Chen, Missouri University of Science and Technology, United States

14:30-15:00 **Title: Graphene / Fluorinated Graphene Heterostructures for a Wide Spectrum of Applications**

Irina V. Antonova, Federal State Budgetary Institution of Science, Russia

15:00-15:30 **Title: Nanoengineering of Carbon Nanotubes and 2D Materials: From Biomedical Applications to Cylindrical Van Der Waals Heterostructures**

Gerard Tobias, Materials Science Institute of Barcelona, Spain

Networking & Refreshments Break 15:30-15:45 @ Foyer

15:45-16:15 **Title: Formation of Carbon-Rich Nanofilament in a Memristive Device**

Niloufar Raeis-Hosseini, Imperial College London, UK

16:15-16:45 **Title: Modeling Light Propagation based on Feynman-Kac Formula in Path Integral, Monte Carlo & Numerical Estimates**

Adewole O Mayowa, Atlantic International University, USA

Oral Sessions

16:45-17:05 **Title: Pt Lean and Fee CNT Electrocalyst for Hydrogen Evolution**

Tanja Kallio, Aalto University, Finland

Day 2 March 29, 2019

Carmen

Oral Sessions

Session Chair **Vladimir S. Bystrov, Keldysh Institute of Applied Mathematics, Russia**

Session Co-chair **Michele Aresta, IC2R and CIRCC, Italy**

10:00-10:20 **Title: Magnetization of Carbon Nanomaterials by Selective Surface Modifications**

Rina Tannenbaum, Stony Brook University, USA

10:20-10:40 **Title: Carbon Nanotube Cotton: Continuous Growth and Pulling into Big Spools**

Vladimir Mordkovich, Technological Institute for Superhard and Novel Carbon Materials, Russia

10:40-11:00 **Title: Straight Carbon Nanotubes with Brobdingnag Monocrystal Nickel Kernel**

Sergey A. Urvanov, Technological Institute for Superhard and Novel Carbon Materials, Russia

11:00-11:20 **Title: Synthesis Mechanism and Electrochemical Properties of Nanographene Materials Obtained by In-Liquid Plasma Method**

Hiroki Kondo, Nagoya University, Japan

Networking & Refreshments Break 11:20-11:35 @ Foyer

11:35-11:55 Title: **Ionizing Radiation Sensors Based on Carbon Nanotubes**
Kenneth FontÁñez Mora, Universidad del Turabo, USA

Sessions 2
Graphene-based Nanocomposites: Recent Scientific Studies and Applications
Growth Synthesis Techniques
Integration Methods

11:55-12:15 Title: **Improvement of Dispersion by Sonication of Graphene-Compounds in the Melt Spinning Process**
Merle Orth, RWTH Aachen University, Germany

12:15-12:35 Title: **Composite of Fluorinated Graphene with Nanoparticles V2O5 as Material for Flexible and Printed Memristors**
Artem I. Ivanov, Rzhanov Institute of Semiconductor Physics, Russia

12:35-12:55 Title: **Synthesis of Carbon-Based Nanomaterials using Plasma-Enhanced Chemical Vapor Deposition**
Mineo Hiramatsu, Meijo University, Japan

Lunch Break 12:55-13:55 @ Restaurant

13:55-14:15 Title: **Spectroscopic Investigation of Ar/H2/CH4 and Ar/H2/C2H2 Induction Plasma for Understanding Chemical Kinetics of CH4 And C2H2 Dissociation during Graphene Nano-Flakes Production**
Antaryami Mohanta, EMPA–Swiss Federal Laboratories for Materials Science and Technology, Switzerland

Sessions 3
Applications of graphene and related 2D materials
Semiconductor Materials and Nanostructures
Graphene Nano in Energy and Storage
Graphene-related Health and Environment Research
Fundamental Science of Graphene and 2D Materials Beyond Graphene

14:15-14:35 Title: **The Different Faces of Graphene Related Materials: A Safety Perspective**
Peter Wick, EMPA–Swiss Federal Laboratories for Materials Science and Technology Switzerland

14:35-14:55 Title: **MOF Derived Porous Carbon for High-Performance Symmetrical Supercapacitor**
Xuecheng Chen, West Pomeranian University of Technology, Poland

14:55-15:15 Title: **Humidity Sensors Based on Graphene or Composite Graphene - PEDOT: PSS**
Svetlana. A. Smagulova, North-Eastern Federal University, Russia

15:15-15:35 Title: **Wearable Super-High Specific Performance Supercapacitors using a Honeycomb with Folded Silk-like Composite by NiCo2o4 Nanoplates Decorated with NiMoO4 Honeycombs on Nickel Foam**
Yedluri Anil Kumar, Pusan National University, Korea

15:35-15:55 Title: **Fe₂O₃@LiCoO₂ Composite as Excellent Electrode Material for Supercapacitor Applications**
Chandu V V Muralee Gopi, Pusan National University, Korea

Networking & Refreshments Break 15:55-16:10 @ Foyer

16:10-16:30 Title: **Graphene Oxide: Antimicrobial And Antibiofilm Effect on Wound-Related Microorganisms**
Mara Di Giulio, University of "G. d'Annunzio" Chieti - Pescara, Italy

16:30-16:50 Title: **Chemical Linkage of Perfluoropolyether Chains to Carbon-Based Nanomaterials: Recent Results and New Perspectives**
Maurizio Sansotera, Politecnico di Milano, Italy

16:50-17:10 Title: **Graphene-Based Nanomaterials in Neurosurgical Applications: Thinking Small, Dreaming Big**
Aaron J.K. Tan, Department of Surgery, Scarborough Hospital, York Teaching Hospital NHS Foundation Trust Hospital, UK

Poster Presentations

P-001 Title: **Biomass-Derived Robust Three-Dimensional Porous Carbon for High Volumetric Performance Supercapacitors**
Xiaoguang Liu, West Pomeranian University of Technology, Poland

P-002 Title: **CNT in Fibers: Manufacturing of Bicomponent Fibers**
Merle Orth, RWTH Aachen University, Germany

P-003 Title: **Functionalization of CVD Multi-Layer Graphene with Perfluoropolyether Chains**
Luca Gabatell, Politecnico di Milano, Italy

P-004 Title: **Graphene Nanocomposite Conductive Polymers for Nerve Regeneration**
Aaron J.K. Tan, Department of Surgery, Scarborough Hospital, York Teaching Hospital NHS Foundation Trust, UK

P-005 Title: **Quasiparticles in Transition Metals–Dichalcogenide Nanoribbons**
Geraldo Magela e e Silva, Institute of Physics, University of Brasilia, Brasil

Closing Ceremony

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February 13-14, 2020 | Lisbon, Portugal

