



Joint Event on

7th World Congress on

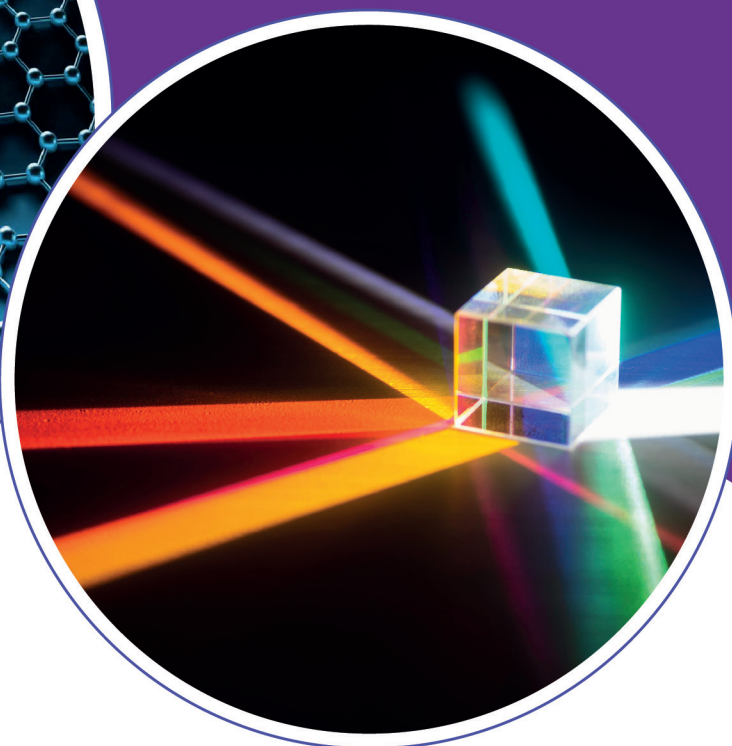
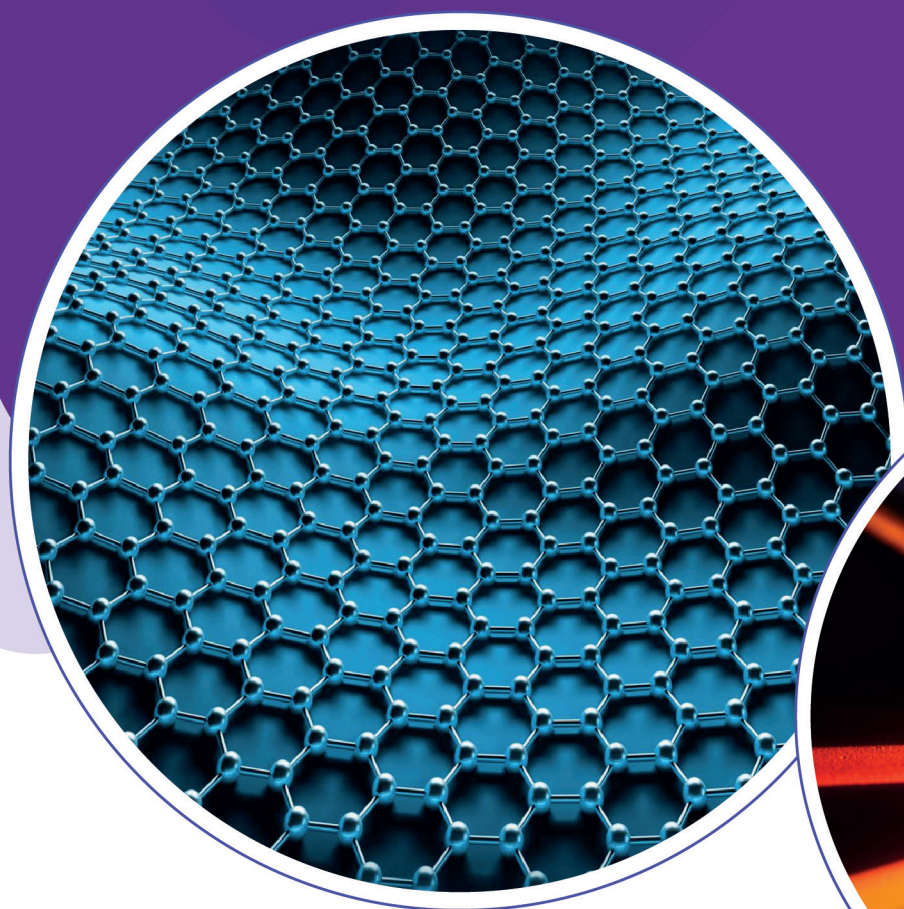
Materials Science & Engineering

&

5th World Congress on

Lasers, Optics and Photonics

June 21-22, 2023 Valencia, Spain



**Spectus Meetings World in
Collaboration with Phronesis LLC**

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7th World Congress on

Materials Science & Engineering

5th World Congress on

Lasers, Optics and Photonics

Wednesday

June 21, 2023

Hall Name: MESTRAL

Day - 1 June 21, 2023

09:30 - 09:55 Registrations and Badge Pickup

09:55 - 10:00 Moderator Introduction

Keynote Session

10:00 - 10:30 Title: Creating of Individual Nanodevices Based on Couled Field Emission From Individual Carbon Nanotubes Using Nanomanipulation
Svetlana von Gratowski, Electronics Russian Academy Of Sciences, Russia

Coffee Break: 10:30 - 10:45

Sessions: Chemical Engineering | Catalysis in Green Chemistry | Catalysis and Pyrolysis | Photocatalysis | Catalysis in Nanotechnology | Biochemical Engineering | Catalysis for Biorefineries | Electrochemistry and Electrochemical Engineering | Organix and Inorganic Chemistry | Nano - Imaging for Diagnosis, Therapy and Delivery | Nanotechnology Applications | Nanofabrication, Nanoprocesing & Nanomanufacturing

Session Chair

Palash Kumar Mollick, University of the Basque Country, Spain

10:45 - 11:05 Title: Silver Nanoparticles as Effective and Recyclable Catalyst for the Selective Oxidation of Alcohols
Agnieszka Krogul - Sobczak, University of Warsaw, Poland

11:05 - 11:25 Title: Comparative Study of Conventional and Plasma Catalysed Steam Reforming Process for Green Hydrogen Production from Plastic
Palash Kumar Mollick, University of the Basque Country, Spain

11:25 - 11:45 Title: Influence of Sulfiding Agent on the Chemical - Physical Properties and Catalytic Pathway of CoMoSx Catalysts in the HDT Process of o - Xylene
Alessandra Palella, CNR - ITAE, Italy

11:45 - 12:05 Title: Photo Catalytic Synthesis of Chiral Molecules in Flow
Maurizio Benaglia, The University of Milan, Italy

12:05 - 12:25 Title: 3D Radar Sensor Fusion For High - Precision Human Lesion Identification
Ning Xue, Aerospace Information Research Institute, China

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12:25 - 12:45 Title: High - Speed Scanning Ion Conductance Microscopy (HS - SICM) Revealing Nanoscale Physical Features Of Irradiation - Treated Breast Cancer Cells

Masahiro Yamazaki, Division of Cancer Cell Biology, Cancer Research Institute of Kanazawa University, Japan

Group Photo: 12:45 - 13:00

Lunch Break: 13:00 - 14:00

Virtual Presentations

Electro - Chemistry and Electro - Analytical Chemistry | Catalysis for Energy| Chemical Engineering | Photocatalysis| Biochemical Engineering | Electrochemistry and Electrochemical Engineering | Material Chemistry and Polymer Chemistry| Nano - Imaging for Diagnosis| Therapy and Delivery| Nanobiotechnology | Nanomaterials and Nanotechnology

Session Chair

Abhispa Sahu American Nano, LLC, USA

14:00 - 14:15 Title: Plastic Trash to Monomers and Intermediates – PTMI
Anne M. Gaffney, University of South Carolina, USA

14:15 - 14:30 Title: Persistent luminescence From Eu²⁺ Doped And Co - Doped Inorganic Aluminate Host Materials
Leelakrishna Reddy, University of Johannesburg, South Africa

14:30 - 14:45 Title: Fluorographite Nanoplatelets Based Resin Membranes for Water Purification
Abhispa Sahu, American Nano, LLC, United States of America

14:45 - 15:00 Title: Calculation of Geometric Structure, Electronic Characteristics, Vibration Frequencies and Thermodynamic Properties of C₁₁H₁₈-C₁₄H₂₄ Alkyladamantanes According to DFT
Saginayev A, Utebaev Atyrau of Oil and Gas University, Kazakhstan

15:00 - 15:15 Title: Vanillin: Bioconversion of the World's Most Popular Flavor
Wa Ode Cakra Nirwana, University of Brawijaya, Indonesia

15:15 - 15:30 Title: Deciphering ORR in HTPMFCC
Panagiotis I. Giotakos, Foundation for Research and Technology Hellas, Greece

15:30 - 15:45 Title: Electrochemical Kinetics Study of Bio - System
Arvind Prasad Dwivedi, Govt. Swami Vivekananda P.G. College, India

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Coffee Break: 15:45 - 16:00

16:00 - 16:15 Title: Development of Metal Sulfide - Based CO₂ Reduction Electro Catalysts using Machine Learning Technique

Akira Yamaguchi, Tokyo Institute of Technology, Japan

16:15 - 16:30 Title: Towards an Innovative Combined Process Coupling Biodegradation and Photo - Oxidation for The Removal of Pharmaceutical Residues

Gael Plantard, PROMES, UPR 8521 CNRS, France

16:30 - 16:45 Title: Continuous Flow Photoreactor Undergoing Variable Simulated Irradiation Conditions: Experimentations and Modeling

Gael Plantard, PROMES, UPR 8521 CNRS, France

16:45 - 17:00 Title: Electrochemical Biosensing Of Uric Acid

Minakshi Sharma , Maharshi Dayanand University , India

17:00 - 17:15 Title: Results On Viral Bio - Signature's Derivation, It's Evolution And Far To Evanescent Field Frequencies Convergence

KF Kaspareck, Energy & Engineering Consulting, GR, Italy

17:15 - 17:30 Title: Biological Activities Of Centaurea Urvillei Subsp. Urvillei And Its Green Synthesized Silver Nanoparticles

Burcu Sümer Tüzün, Ege University, Turkey

Networking/Panel Discussions: 17:30 Onwards

Day 1 Concludes



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Thursday

June 22, 2023

Hall Name: MESTRAL

Day 2 - June 22, 2023

Plenary Session

10:00 - 10:30 Title: Integrated Wavemeter for Atomic Clocks Stabilization
Philippe Velha, DISI, University of Trento, Italy

Keynote Session

10:30 - 11:00 Title: Non - Destructive Testing of GFRP Composites Using Terahertz Radiation
Waldemar Swiderski, Military Institute of Armament Technology, Poland

Coffee Break: 11:00 - 11:15

Sessions: Materials for Energy Applications | Advanced Energy Materials | Graphene Technology and 2D Materials | Materials Science and Engineering | Advanced Nanomaterials - production, Synthesis and Processing | Ceramics and Composite Materials | Nonlinear Lasers and Nonlinear Optics | Optical properties of Nano structures | Physics and Chemistry of Materials | Nanomaterials and Nanotechnology | Materials Science and Engineering | Future Drifts in Lasers, Optics and Photonics | Nonlinear Lasers and Nonlinear Optics | Optical Properties of Nanostructures | Fiber Optics and Fiber Laser Technologies | Ultrafast and Ultra - Intense Lasers, Laser Diagnostics | Optical Engineering and Optical Networking | Novel Optical Materials and Applications Semiconductors and Superconductors | 3D Printing technologies

Session Chair

Georges Boudebs, LPhIA / Univ Angers, France

11:15 - 11:35 Title: Lead Free ($\text{BaZr}_{0.2}\text{Ti}_{0.8}\text{O}_3$) and Lead Based ($\text{PbZr}_{0.52}\text{Ti}_{0.48}$) Flexible Thick Films: Structural Properties and Potential Use as Energy Storage and Energy Harvesting Systems
Jelena Bobic, University of Belgrade, Serbia

11:35 - 11:55 Title: Energy Harvesting Potential Of Polymer Composites
Mirjana Vijatovic Petrovic, University of Belgrade, Serbia

11:55 - 12:15 Title: Effect Of Heat Treatment Parameters On The Carbide Spheroidization OF 0.48% Carbon Steels
Nandita Gupta, The DEptt of Foundry and Forge Technology, India

12:15 - 12:35 Title: Design Of New 2D Materials Using Computational Intelligence
Tadeusz Burczynski, Institute of Fundamental Technological Research, Poland

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Thursday

June 22, 2023

12:35 - 12:55 Title: Educational and Research Experience in Clean Energy Hydrogen Fuel Cells for Electricity Generation

Alla Bailey, Rochester Institute of Technology, USA

Group Photo: 12:55 - 13:05

Lunch Break: 13:05 - 14:05

14:05 - 14:25 Title: Nanopatterns Fabricated by Fluid FM as Potential Surfaces for Platelet Storage

Gurunath Apte, Institute for Bioprocessing and Analytical Measurement Techniques, Germany

14:25 - 14:45 Title: Tailoring Of $\text{BaCe}_{0.9}\text{Y}_{0.1}\text{O}_{3-\delta}$ Electrolyte Properties by Co - Doping
Aleksandar Radojković, University of Belgrade, Serbia

14:45 - 15:05 Title: Photo - Thermal Efficiency of Gold Nano - Particle Suspensions Using cw Z - scan Technique in The Visible Range

Georges Boudebs, LPhiA / Univ Angers, France

15:05 - 15:25 Title: UV Micro LED Chip Performance, Superiority, and the Future
Yoshihiko Muramoto, Nitride Semiconductors Co., Ltd, Japan

15:25 - 15:45 Title: Influence of Magnetic Field on Plasma Parameters & Surface Modification of Cu-Alloy after Fs Laser Irradiation

Asadullah Dawood, National Excellence Institute, Pakistan

15:45 - 16:05 Title: Investigation of Cladding Interfacial Microstructure of Titanium Alloy on Structural Carbon Steel Prepared by Friction Stir Processing

Abdulrahman Aljabri, Islamic University of Madinah, Saudi Arabia

16:05-16:25 Title: CuFeOx-Based Nano-Rose Electro Catalysts for Oxygen Evolution Reaction (OER) Prepared by Phytochemical Assisted Green Synthesis Process

Hamad Almohamadi, Islamic University of Madinah, Saudi Arabia

Coffee break & Poster Session - 16:25 Onwards

SPEC-P-01 Title: Controlling The Emission Of CsPbBr_3 Nano - Crystals. Post - Synthesis Treatment Via Ion Exchange.

Egle Ezerskyte, Vilnius University, Lithuania

SPEC-P-02 Title: Recyclable Environmentally Friendly Ionic Liquid Supported Organotelluride Oxidation Catalyst

Shinichi Koguchi, Tokai University, Japan

SPEC-P-03 Title: Adsorptive Desulfurization of Pentane Plus with High Aromatics Content by An Industrial Molecular Sieve

Ahmad Panjehshahin, Kangan Petro - Refining Complex, Iran

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- SPEC-P-04 Title: Growth and Characterization of BSCCO High TC Superconductor Thin Films for Possible Terahertz Device Applications
Kensuke Nakajima, Yamagata University Japan
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- SPEC-P-05 Title: The Study On The Sintering Conditions To Fabricate Copper Foam Metal
Yong- Sil Ahn, Pukyong National University, Korea (south)
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- SPEC-P-06 Title: Nanostructured Silicon And Aluminum Thin Films For All - Silicon Optoelectronics
A. Smirnov, Belarusian State University Of Informatics And Radioelectronics
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- SPEC-P-07 Title: Tailoring The Optical Properties Of CsPbBr_3 Quantum Dots Via Post - Synthesis Modification Using ZnX_2 Complex Solutions
Vaidas Klimkevicius, Vilnius University, Lithuania
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- SPEC-P-08 Title: Ultrasound - Induced Hot - Injection Synthesis of All - Inorganic Perovskite Quantum Dots
Arturas Katelnikovas, Vilnius University, Lithuania
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- SPEC-P-09 Title: On Diversity of Localized Modes in Presence of Defects and Nonlinearity in SSH Waveguide Array
Kolja Bugarski, University of Belgrade, Serbia
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- SPEC-P-10 Title: Playing With the Artificial Flux in Diamond Plaquettes in Different Photonic Lattices
Mirjana Stojanović, University of Belgrade, Serbia
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- SPEC-P-11 Title: Probing the Efficiency of Lasing Zero - Mode by Changing the Vortex Distortion Phase
Milica Nedić, University of Belgrade, Serbia
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- SPEC-P-12 Title: Dual - Wavelength Distributed Feedback Fiber Laser in Yb - Er Co - Doped Fiber
Xijia Gu, Toronto Metropolitan University, Canada
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- SPEC-P-13 Title: Photophysical Properties of Alq_3 and DCM Derivatives and Their Application in Amplified Spontaneous Emission
Patricija Paulsone, University of Latvia, Latvia
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- SPEC-P-14 Title: Fast Measurement of Water Content in Petroleum by Means of Terahertz Time - Domain Spectroscopy
Ihor Krapivin, Center for Physical Sciences and Technology, Lithuania
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- SPEC-P-15 Title: Novel Computer - Vision Based Methods for Micro - Device Reliability
Hua Lu, Toronto Metropolitan University, Canada
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- SPEC-P-16 Title: Thermodynamic Assessment of The Sorption Enhanced Steam Reforming of Biomass Fast Pyrolysis Volatiles
Pablo Comendador Morales, University of the Basque Country, Spain