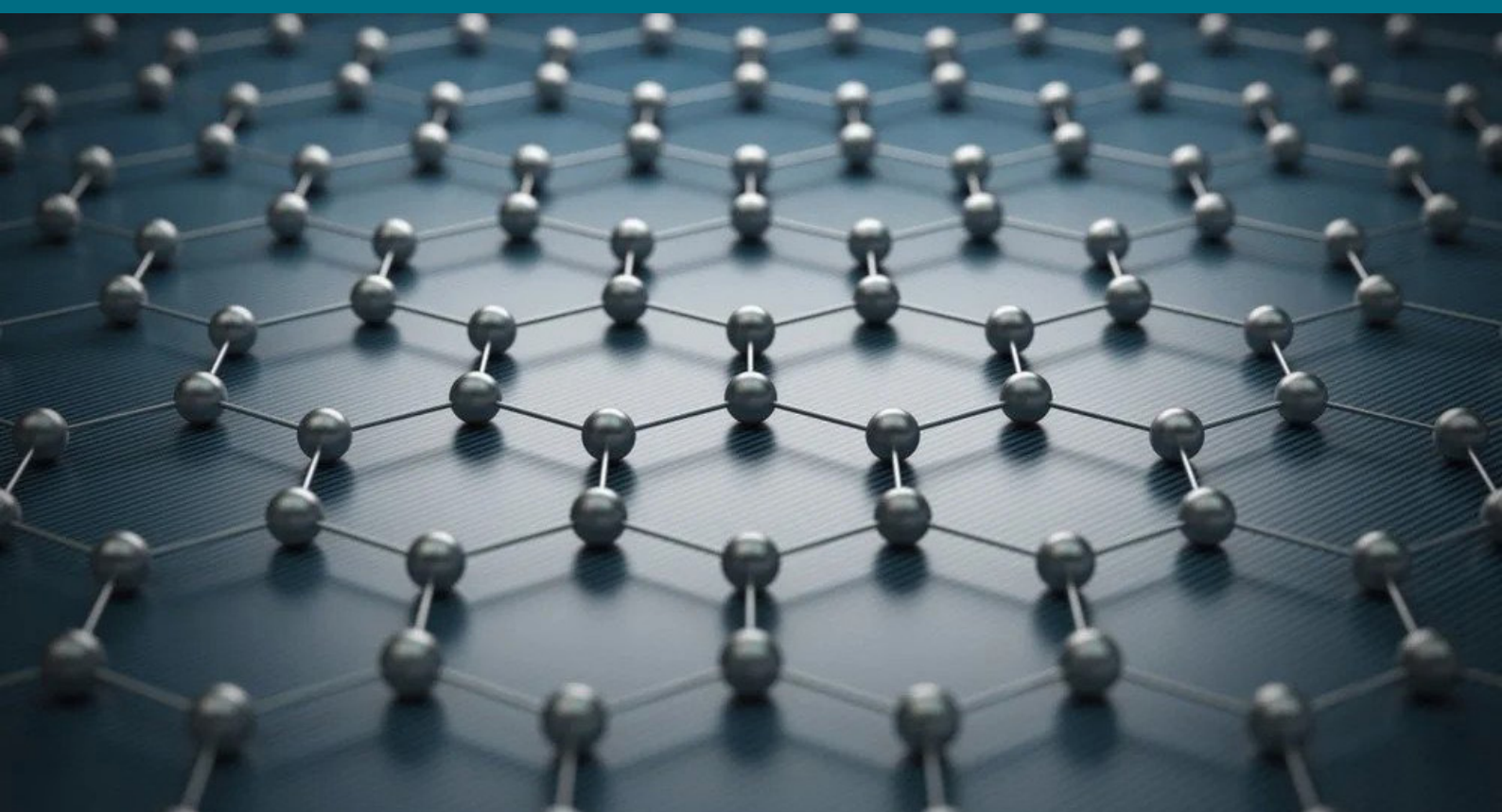


7th European Congress on

ADVANCED NANOTECHNOLOGY AND NANOMATERIALS

November 14 - 15, 2022 | Hotel Isola Sacra Rome Airport, Rome, Italy



Coalesce Research Group

33 Market Point Dr,
Greenville, SC 29607, USA

Contact Us:

Phone: +1-718-543-9362
Whatsapp: +1-315-902-2237

Scientific Program

7th European Congress on

Advanced Nanotechnology and Nanomaterials

Monday
November 14, 2022

Meeting Hall: Grassi

Day 1 - November 14, 2022

8:00 - 8:30 Registrations

8:30 - 8:45 Introduction

Keynote Presentations

8:45 - 9:25 Synthesis of Magnetic Nanoparticles and Characterization of The Nanostructures/
Properties Correlations
Solenne Fleutot, Université de Lorraine, France

9:25 - 10:05 The Role of a Novel Nanomembrane - Based Therapeutic Plasma Exchange Technology
in The Treatment of Myasthenia Gravis Acute Exacerbations
Dimitar Georgiev Tonev, Medical University of Sofia, Bulgaria

Group Photo (10:05 - 10:15)

Networking & Refreshments @Foyer (10:15 - 10:45)

Oral Presentations

Sessions

Nanostructures And Nanofilms | Life Sciences & Nanomedicine | Advanced
Nanomaterials and Nano Technology | Nanostructures And Nanofilms |
Nanomaterials and Nanoparticles | Fundamentals and Properties of Nanomaterials |
Advanced Bio - Materials & Bio - devices | Nanotech for Energy and Environment

Session Chair- Solenne Fleutot, Université de Lorraine, France

Co Chair - Eduardo A: Brocchi, Pontifical Catholic University of Rio de Janeiro, Brazil

10:45 - 11:15 Rhodococcus Ruber as an Alternative for The Synthesis of Silver Nanoparticles with
Antimicrobial Activity
Diego Arroyo Peralta, Universidad Autónoma Metropolitana Xochimilco, Mexico

11:15 - 11:45 A Novel Method to Monitor Drug - induced Changes in The Brain: Combined Raman
Spectroscopy and Phase Imaging
Alexander Khmaladze, SUNY University at Albany, USA

11:45 - 12:15 Natural and Poly (3 - Hydroxybutyrate) Materials for The Treatment of Difficult to Heal
Wounds
Pavlina Aleksandrova Dolashka, Institute of Organic Chemistry with Center for
Phytochemistry, Bulgarian Academy of Sciences, Bulgaria

12:15 - 12:45 Bioactive Ceramic Coatings Produced by The sol - gel Method on 316L Stainless Steel
Anna Mazur - Nowacka, Wrocław University of Science and Technology, Poland

12:45 - 13:15 The Use of Deep Eutectic Solvents in the Fabrication of Thin Anodic Layers on The
Surface of Titanium and its Alloys
Juliusz Winiarski, Wrocław University of Science and Technology, Poland

Lunch @ .IT Italian Restaurant (13:15 - 14:00)

Scientific Program

7th European Congress on

Advanced Nanotechnology and Nanomaterials

Monday
November 14, 2022

14:00 - 14:30	Unique Silica Nanospheres: A Headway Towards Biosensor Development for Aromatic Pollutant Detection Sumita Das , Indian Institute of Technology, Bombay, India
14:30 - 15:00	Fire Hazards of Flammable Substrates when Projectiles Ricochet Off Hard and Tough Metals Przemysław Badurowicz , Military Institute of Armament Technology, Poland
15:00 - 15:30	Green Synthesis of CuO Nanoparticles from Medicinal Plant Extracts with Antibacterial Properties Karina Rumenova Marinova , Institute of Organic Chemistry with Center for Phytochemistry, Bulgarian Academy of Sciences, Bulgaria
15:30 - 16:00	Pro - Antioxidant and Biological Activity of Nanocomposites of Reduced Graphene Oxide, Silver, Copper and their Combinations Elitsa L. Pavlova , Sofia University, Bulgaria
Networking & Refreshments @ Foyer (16:00 - 16:30)	
16:30 - 17:00	Catalytic Decomposition of High Energy Materials Using Nanoparticles of Copper Chromite Vepa Kameswara Rao , University of Hyderabad, India
17:00 - 17:30	Design, Synthesis and Molecular Recognition in Biological and Materials Sciences Franck Meyer , Université Libre de Bruxelles, Belgium
17:30 - 18:00	Biosensor Technologies in Neurotransmitters Detection Joanna Cabaj , Wrocław University of Science and Technology, Poland
18:00 - 18:30	Investigation of Atomic Bond Strength and Disorder in MXene Materials for ion batteries Wojciech Olszewski , University of Białystok, Poland
18:30 - 19:00	A Facile In Situ Synthesis of Resorcinol - Mediated Silver Nanoparticles and The Fabrication of Agar - Based Functional Nanocomposite Films Yeong - Ju Bang , Ourhome, Seoul, Republic of Korea
19:00 - 19:30	Nano Metal - Organic - Frameworks as Delivery Systems for Cancer Gene Therapy Arpita Poddar , Fiona Elsey Cancer Research Institute, RMIT University, Australia
19:30 - 20:00	Magnetite Nanoparticles Modified with Organic Compounds Zbigniew Surowiec , Maria Curie - Skłodowska University, Institute of Physics, Lublin, Poland
20:00 - 20:30	Advances in the Preparation and Application of Metal Shell Silica Core Particles Christina Graf , Darmstadt University of Applied Sciences, Germany

End of Day 1

Scientific Program

7th European Congress on

Advanced Nanotechnology and Nanomaterials

Tuesday
November 15, 2022

Meeting Hall: Grassi

Day 2 - November 15, 2022

Keynote Presentations

09:00 - 09:40

Franck Cleymand, Université de Lorraine, France

Empowering Materials via their Nanodecoration by Means of Pulsed Laser Deposition of Nanoparticles

09:40 - 10:20

My Ali El Khakani, INRS, University of Quebec, Canada

Networking & Refreshments @ Foyer (10:20 - 10:45)

Oral Presentations

Sessions

Nanomaterials and Nanoparticles | Nanotechnology and Nanomaterials | Nanotech:In other fields | Recent Development and Advanced Researches in Nanotechnology | Advanced Nanomaterials and Nano Technology | Life Sciences & Nanomedicine | Advanced Materials and Functional Devices | Advanced Bio - Materials & Bio - devices

Session Chair- My Ali El Khakani, INRS, University of Quebec, Canada

Co Chair - Pavlina Aleksandrova Dolashka, Institute of Organic Chemistry with Center for Phytochemistry, Bulgarian Academy of Sciences, Bulgaria

10:45 - 11:15

Plasma Synthesis of Vertical Graphenes and their Applications
Mineo Hiramatsu, Meijo University, Japan

11:15 - 11:45

Nanostructure and Nanomagnetism of $Fe_{3-x}Ga_xO_4$ Particles Synthesized by Massart method
Katarzyna Recko, University of Bialystok, Poland

11:45 - 12:15

Physico - Chemical Properties and Applications in Biomedicine of Carbon - based Nanomaterials
Dorota Chudoba, Frank Laboratory of Neutron Physics, Joint Institute for Nuclear Research, Dubna

12:15 - 12:45

Development and Performance Evaluation of a High - Volume Cascade Impactor to Collect Ambient Particles on Gelatin Substrate
Constantinos Sioutas, University of Southern California, USA

Lunch @ :IT Italian Restaurant (12:45 - 13:45)

13:45 - 14:15

Real Time Construction of CdSe@CdS Colloidal Quantum Plates Based Micropixels Towards Display Applications
Petit Gaëtan, LPCNO, France

14:15 - 14:45

Ecological Method for Synthesis of ZnO Nanoparticles from Medicinal Plant Extracts
Petar Danchev Petrov, Institute of Organic Chemistry with Center for Phytochemistry, Bulgarian Academy of Sciences, Bulgaria

Scientific Program

7th European Congress on

Advanced Nanotechnology and Nanomaterials

Tuesday
November 15, 2022

14:45 - 15:15 Multiwalled Carbon Nanotubes Functionalized with Metal Cations (Ni²⁺, Co²⁺, Mn²⁺) in Biophysical and Biomedical Applications

Slawomir Strzelec, AGH University of Science and Technology in Cracow, Poland

15:15 - 15:45 Synthesis of Plasmonic Gold Nanoparticles and its Effect on High Energy Materials

Macharla Arun Kumar, University of Hyderabad, India

Networking & Refreshments @ Foyer (15:45 - 16:15)

Poster Presentations

POS1

Poly(vinylcarbazole) and TiO₂ Quantum Dots as a Donor:Acceptor Systems for Polymeric Solar Cells

Dominique Mombrú, Facultad de Química - UDELAR, Uruguay

POS2

Computational Modeling for Evaluation of 2D/bidimensional ZnO Nanostructures as Potential Anodes for Lithium - ion Batteries

Fernando Pignanelli, Centro NanoMat & Área Física, DETEMA, Uruguay

POS3

Determination of Gold Nanoparticles in various Cosmetic Systems by Transmission Electron Microscopy

Daniel Krsek, National Institute of Public Health, Czech Republic

POS4

Sodium Titanate Nanotubes Decorated with CuInS₂ and NSGQD Nanoparticles as Promising Materials for Photovoltaic Applications: Structural, Optical and Transport Dynamics Properties

Martin Esteves, Facultad de Química - UDELAR, Uruguay

POS5

Electrodeposition of Nanocrystalline Ni - Mo Alloy Coatings in a Bath Based on a Choline Chloride: Propylene Glycol Deep Eutectic Solvent

Anna Niciejewska, Wroclaw University of Science and Technology, Poland

POS6

Morphology, Heat power, and Biocompatibility of Hydrophilic Gallium Nanoferrites

Marta Orzechowska, Doctoral School of Exact and Natural Sciences, University of Białystok, Poland

POS7

Antibacterial Activity of Peptides from The Mucus of The Garden Snail Helix Aspersa in Combination with Nanodiamonds

Lyudmila Velkova, Institute of Organic Chemistry with Center for Phytochemistry, Bulgarian Academy of Sciences, Sofia, Bulgaria

POS8

Electrocrystallization of Calcium Oxalate on The Electrospun PCL Fibers Loaded with Phytic Acid

Andronico Neira Carrillo, University of Chile, Chile

POS9

Synthesis and Characterization of a Content Nanoparticles Ternary Metallic Alloy and Its Precursor

Eduardo A Brocchi, Pontifical Catholic University of Rio de Janeiro, Brazil

POS10

Combination of Photothermal, Prodrug and Tumor Cell Camouflage Technologies for Triple - negative Breast Cancer Treatment

Xiaodong Ma, Abo Akademi University, Finland

POS11

Restoring Expression of Defect Gene by Messenger RNA loading ZIF - 8/PEI Nanoparticles for Cancer Therapy

Wenhui Zhou, Abo Akademi University, Finland

Scientific Program

7th European Congress on

Advanced Nanotechnology and Nanomaterials

Tuesday
November 15, 2022

- | | |
|-------|--|
| POS12 | Photolithographic Recording of 3D Structures Utilizing Up - Conversion Luminescence in Yb ³⁺ and Tm ³⁺ Nanoparticles Doped Complex System (SU8 Photoresist and Organic Material)
Jurgis Grube , University of Latvia, Latvia |
| POS13 | Effect of Titanium Surface Nanotubular Arrays with Nanotubes of two Different Dimensions on Cell Behavior
Jana Sistkova , Masaryk University, Czech Republic |
| POS14 | Effects of Nanotube - Modified Titanium Alloy in an Osteoblast - Macrophage Co - Cultivation System
Polina Nadtochaeva , Masaryk University, Czech Republic |
| POS15 | Application of Metals Commonly Used in Medicine – <i>In vivo</i> Model
Lucie Valkova , Masaryk University, Czech Republic |

Video Presentation

- | | |
|-------|---|
| VP001 | Characterization and Testing of Novel Nano - Inorganic Particles to Enhance Hydrophobicity in Coil Coatings
Seval Sulubas , Akzonobel Kemipol, Turkey |
|-------|---|

Panel Discussion - Awards & Closing Ceremony

Day 2 concludes followed by Vote of Thanks

Scientific Program

7th European Congress on

Advanced Nanotechnology and Nanomaterials

Virtual Presentations

14 November, 2022, GMT

11:00 - 11:10 Introduction

Keynote Forum

11:10 - 11:40 **Lead-Free Ceramics for Dielectric Energy Storage Capacitors**
Zhilun Lu, Edinburgh Napier University, United Kingdom

Plenary Sessions

11:40 - 12:05 **A Deep Learning-Based Framework for Automatic Analysis of Nanoparticle Morphology in SEM/TEM Images**
Zhijian Sun, Shenyang Institute of Automation Chinese Academy of Sciences, China

12:05 - 12:30 **Hybrid MXene-Graphene/Hexagonal Boron Nitride Structures: Electronic and Molecular Adsorption Properties**
Fawziah Alhajri, Imam Abdulrahman Bin Faisal University, Saudi Arabia

12:30 - 12:55 **An Efficient Treatment strategy for The Abatement of Refractory Organics in Landfill Leachate Wastewater by Electro-Peroxone**
Ramya Srinivasan, Indian Institute of Technology, India

12:55 - 13:20 **Unlocking Nanoscale Additive Manufacturing Thanks to Capillarity**
Pascal BONCENNE, HUMMINK, France

13:20 - 13:45 **Co₃O₄/PMMA Nanofibrous Membrane Constructed Electromagnetically for High-Efficiency Wave Absorption**
Abeer Alassod, Damascus University, Syria

Poster Presentation

13:45 - 14:00 **Organic Heterostructure with Dendrimer: Non-fullerene Mixed Layer for Electronic Applications**
Carmen Breazu, National Institute of Materials Physics, Romania

Day-1 Webinar Concludes

Webinar concludes followed by Vote of Thanks

Scientific Program

7th European Congress on

Advanced Nanotechnology and Nanomaterials

Virtual Presentations

15 November, 2022, GMT

Keynote Forum

- 11:00-11:30 Stereolithographic Additive Manufacturing Using Crystallized Ceramic Nanoparticles
Soshu Kiriwara, Osaka University, Japan
- 11:30 - 12:00 Nanofabrication and Characterization of Oxygen and CO Gases Nanosensor for High Temperatures Applications
Badriyah Alhalaili, Kuwait Institute for Scientific Research, Kuwait

Plenary Sessions

- 12:00 - 12:25 Optimization Study of Preparation Nano particles Adsorbent from Iraqi Grape Seeds for Removal of Cadmium from Aqueous Solution
Jasim Mohammed Salman, Iraq University College, Iraq
- 12:25 - 12:50 Catalytic Decomposition of High Energy Materials Using Nanoparticles of Copper Chromite
Vepa Kameswara Rao, University of Hyderabad, India
- 12:50 - 13:15 Synthesis of Plasmonic Gold Nanoparticles and its Effect on High Energy Materials
Macharla Arun Kumar, University of Hyderabad, India
- 13:15 - 13:40 Ultralarge Graphene Oxide with High Performance as Electrode Material in Green Supercapacitors and Capacitive Deionization Systems
Sara Madani, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran
- 13:40 - 14:05 Supercapacitors - Development of LiCoO₂ based electrode materials for Asymmetric supercapacitors
Bhuvanalogini, Sree Sevugan Annamalai College, Devakottai, India

Webinar Concludes