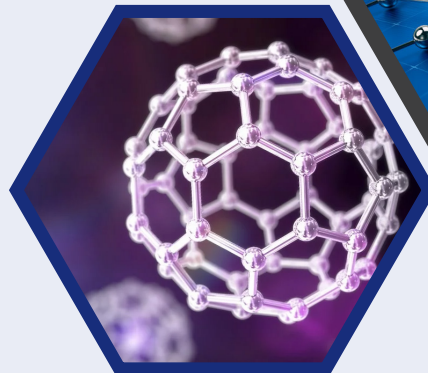
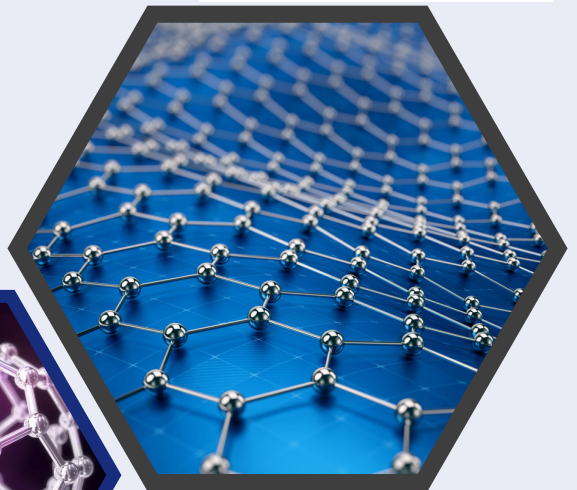
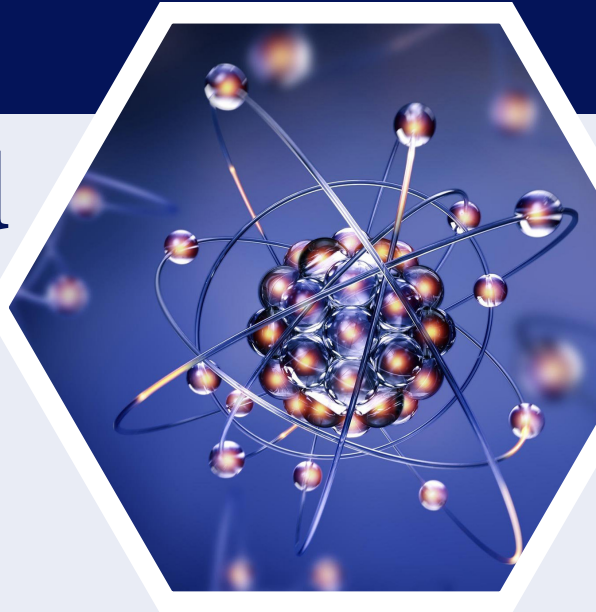


International Conference on

Nanomaterials and Nanotechnology

March 27-28, 2023

Millennium Hotel Paris Charles De
Gaulle, Paris, France



Scisynopsis LLC
Atlanta, GA 30326
USA

Contact us:

Contact: +1-770-832-7291,

Whatsapp: +1-770-762-9823

Exhibitor

The logo for HEIDELBERG INSTRUMENTS, featuring a stylized red and grey 'HI' symbol followed by the text 'HEIDELBERG INSTRUMENTS' in red and grey.

Conference Programme

March 27-28, 2023, Millennium Hotel Paris Charles De Gaulle, Paris, France

Day 1, March 27, 2023

Meeting Hall: Blériot

8.30 - 8.45

Registrations

8.45 - 9.00

Introduction

Keynote Presentations

9.00 - 9.45

Sina Khoshima, Jozef Stefan Institute, Slovenia

Title: An Environmentally Friendly Approach to Selective Chemical Leaching and $\text{Nd}_2\text{Fe}_{14}\text{B}$ Magnetic Phase Extraction from Feedstock $\text{Nd}_2\text{Fe}_{14}\text{B}$ Type Powders

9.45 - 10.30

Viktoria Milkova, Bulgarian Academy of Sciences, Bulgaria

Title: Design of Biopolymer-Based (Nano) Formulations for Potential Treatment of Coronavirus Infection

Group Photo: 10.30 - 10.45

Networking and Refreshments @ Foyer: 10.45 - 11.00

Oral Presentations

Session Chair:

Sina Khoshima, Jozef Stefan Institute, Slovenia

Session Chair:

Valeri Ligatchev, Member of The Electrochemical Society, Singapore

Session Chair:

Mothibeli Pita, University of South Africa, South Africa

Session Co-chair:

Hosam El-Sayed, National Research Centre, Egypt

Sessions: Materials Science and Engineering | Functional Materials | Smart Hybrid Materials | 3D Printing & Additive manufacturing | Polymer Technology and Plastics | Graphene Technology | Forensic Nanotechnology | Nano Mechanics | Fundamentals and Properties of Nanomaterials | Applications of Nanotechnology | Materials Chemistry | Metals and Mining Materials | Nanoengineering and It's Applications | Structural Materials | Composite, Coating and Ceramic Materials | Carbon Nanotubes | Metallurgy | Chemical Engineering | Lipid Nanotechnology | Polymer Nanotechnology | Quantum Nanotechnology | Nano Medicine & Life Sciences | Nano Physics & Nano Chemistry | Molecular Nanotechnology | Nnotoxicology | Computational Nanotechnology

11.00 - 11.25

Michał Pikuła, Medical University of Gdańsk, Poland

Title: Adipose-Derived Stromal Cells as A Tool in Biomedical Engineering and Nanotechnology

11.25 - 11.50

Mothibeli Pita, University of South Africa, South Africa

Title: Investigation of the Effect of Tool Temperature on Microstructure and Mechanical Properties of Aluminium 6061-T6 Alloy During Friction Stir Welding

11.50 - 12.15

Valeri Ligatchev, Member of The Electrochemical Society, Singapore

Title: On Nature of Cooper Pairs Formation Mechanism in Phonon-Mediated Superconductors

12.15 - 12.40

Stepan Gamanov, CEITEC Brno University of Technology, Institute of Physics of Materials, Czech Academy of Sciences Czech Republic

Title: Manufacturing and High Temperature Properties of Fe-10Al-4Cr-4Y₂O₃ ODS Nanocomposite, Aimed for Structural Applications Above 1100°C

12.40 - 13.05

Hosam El-Sayed, National Research Centre, Egypt

Title: Preparation of Nonionic Softener Based on Wool Wax and its Utilization in Functionalization of Textile Fabrics

Lunch @ Restaurant: 13.05 - 14.00

14.00 - 14.25

Galina Lasko, Institute for Materials Testing, Materials Science and Strength of Materials, Germany

Title: FEM-Simulations of Fatigue Crack Initiation in the Oligocrystalline Microstructure of Stents

14.25 - 14.50

Zhengming Wu, Heidelberg Instruments Nano AG, Switzerland

Title: NanoFrazor Lithography for Advanced 2D & 3D Nanodevices

14.50 - 15.15

Mohamed Hassen V. Baouab, University of Monastir, Tunisia

Title: Macrocycles Tetra Aza-Microcrystalline Bacterial Cellulose Doped with Magnetite Nanoparticles Catalytic and Microbiological Application

15.15 - 15.40

Bertrand Roussillo--David de Beaufort, French Atomic Energy and Alternative Energies Commission, France

Title: Improvement of Electrospun Carbon Nanofiber Material as Gas Diffusion Layer for Proton Exchange Membrane Fuel Cell

15.40 - 16.05

Mavis Sika Okyere, University of Ghana, Ghana

Title: Flow Improvers and Pipeline Internal Coating Benefits and Limitations with Respect to Pipeline Capacity Enhancement: A Case Study

Networking and Refreshments @ Foyer: 16.05 - 16.30

16.30 - 16.55

Emilia Visileanu, The National Research and Development Institute for Textiles and Leather, Romania

Title: Composite Structures for Emergency Medicine

16.55 - 17.20

Sergey Suchkov, Institute for Biotech & Global Health of RosBioTech, and A.I. Evdokimov MGMSU, Russia

Title: Antibody-Proteases as Translational Tools of the Next-Step Generation to be Applied for Bioindustry and Clinical Applications

17.20 - 17.45

Mohammed Saad Al-Ghamdi, King Abdulaziz University, Saudi Arabia

Title: Effect of Quantum Confinement on Electrical Properties in GaInP Semiconductor Laser Diode Structures

17.45 - 18.10

Lakshmi Sathi Devi, University of Camerino, Italy

Title: Exploring Cyclodextrin/Hyaluronan Multifunctional Delivery Systems for Anticancer Therapy

18.10 - 18.35

Francisco E Alban-Chacón, ESPOL, Ecuador

Title: A Novel Physical Mechanism to Model Brownian yet Non-Gaussian Diffusion: Theory and Application

18.35 - 19.00

Magda Silva, University of Minho, Portugal

Title: Ligament Scaffolds based on PLA/Graphite Nanoplatelet Composites

19.00 - 19.25

Mohammed Saad Al-Ghamdi, King Abdulaziz University, Saudi Arabia

Title: Effect of Barrier Width on Optoelectronic Properties of InAsP Quantum Dot Laser Diodes

Day 1 Concludes

Day 2, March 28, 2023

Meeting Hall: Blériot

Keynote Presentation

10.00 - 10.45

Henrique Eisi Toma, Universidade de São Paulo, Brazil

Title: A New Green Nanotechnological Process for Gold Extraction

Oral Presentations

Session Chair:

Henrique Eisi Toma, Universidade de São Paulo, Brazil

Session Chair:

Sabrina Belbekhouche, Université Paris Est Creteil, CNRS, France

Session Chair:

Yun-Hae Kim, Korea Maritime and Ocean University, South Korea

Sessions: Nanomaterials and Nanotechnology | Nanoscience And Technology | Advanced Materials and Functional Devices | Nanoelectronics and Nanophotonics | Biomedical Engineering and Nanobiotechnology | Carbon Nanotubes | Graphene and Fullerenes | Materials Science and Engineering | Polymer Technology and Plastics | Graphene Technology | Nature and Properties of Materials | Computational Material Science | Magnetism and Multiferroism | Biomaterials and Medical Devices | Semiconductors | Nanodevices and Nanosensors | Industrial Nanotechnology | Advanced Energy Materials | Metamaterials | Polymers & Biopolymers

10.45 - 11.10

Asmaa Fathy Elfiky, National Research Centre, Egypt

Title: Easily-Dyeable Polypropylene Fabric using Oxygen or Nitrogen Plasma-Mediated Treatments

Networking and Refreshments @ Foyer: 11.10 - 11.30

11.30 - 11.55

Joice Maria Joseph, University of Camerino, Italy

Title: The Art of Preparations of PFCE Encapsulated PLGA Nanoparticles using Sonication and Homogenisation

11.55 - 12.20

Mothibeli Pita, University of South Africa, South Africa

Title: Experimental Investigation of Different Spindle Rotational Speed and Constant Acceleration on Mechanical Properties and Microstructure of Aluminum 6082T651 During Friction Stir Welding

12.20 - 12.45

Chang Liu, Beijing Sport University, China

Title: Gold Nanoparticle-based Point-of-Care Sensor for Rapid and Simultaneous Detection of Multiple Doping in Blood and Urine Samples

12.45 - 13.10

Donats Erts, University of Latvia, Latvia

Title: Bi₂Se₃/SWCNT Heterostructures as A Perspective Anode for Lithium-ion Batteries

Lunch @ Restaurant: 13.10 - 14.00

14.00 - 14.25

Ali Al-Samydai, Al-Ahliyya Amman University, Jordan

Title: The Effectiveness of Rutin in Improving Anticancer Effect and Stability of PEGylated Nanoliposomes

14.25 - 14.50

Sabrina Belbekhouche, Université Paris Est Creteil, CNRS, France

Title: New Generation of Drug Delivery System Based on Stimuli-Responsive Particles (Capsules, Porous Particles...)

14.50 - 15.15

Sudip Barman, National Institute of Science Education and Research (NISER), India

Title: Metal Nanostructures for Electrochemical Energy Conversion and Storage

15.15 - 15.40

C S Ezeanyanaso, National Agency for Science and Engineering Infrastructure, Nigeria

Title: Nanotechnology: The Emerging Field for Remediation, Restoration and Cleanup of Liquid Petroleum Hydrocarbon Spillage

15.40 - 16.05

Banshidhara Mallik, National Institute of Advanced Manufacturing Technology, India

Title: Study on Synthesis and Characterisation of Al-Base *In-situ* Metal Matrix Nano Composites by Stir Casting

Networking and Refreshments @ Foyer: 16.05 - 16.30

16.30 - 16.55

Valeri Ligatchev, Member of The Electrochemical Society, Singapore

Title: Size-Dependent Melting Temperatures of Graphene and MoS₂ Nano-Flakes

16.55 - 17.20

Mohamed A.E.M. Ali, Military Technical College, Egypt

Title: Static Performance and Gamma Shielding Characteristics of Ilmentite Cementitious Plaster

17.20 - 17.45

Lucy Vojtova, CEITEC - Central European Institute of Technology, Brno University of Technology, Czech Republic

Title: Biomimetic Polydopamine-Modified Nanofibrous Bilayer Scaffolds used for Full-Thickness Skin Regeneration in a Porcine Animal Model

17.45 - 18.10

Jeetendra Gupta, Institute of Engineering and Ocean Technology, Oil and Natural Gas Corporation Ltd , India

Title: Failure Analysis of A Metallic Ring Gasket: A Case Study

Poster Presentations

P-01

Henry R. Chance, Georgia Institute of Technology, USA

Title: Nanoscale 3D Printed Microsupercapacitors

P-02

Abir Razzak, University Of Gafsa, Tunisia

Title: Production of Cellulose Nanofibrils from *Schinus molle* by Enzymatic Hydrolysis: Preparation and Characterization

P-03

Oleksandr Dekhtiar, G.V. Kurdyumov Institute for Metal Physics of National Academy of Sciences of Ukraine, Ukraine

Title: Improving the Fatigue Properties of Ti-6Al-4V Powder Alloy by Surface Carbon Deposition with the Help of Graphite Evaporation by Laser Irradiation

P-04

Lorenzo Signorelli, Friedrich-Alexander University, Germany

Title: Design of Magnetoelectric Nanofibers for Wireless Electrical Neuromodulation

P-05

Abir Razzak, University Of Gafsa, Tunisia

Title: Preparation and Characterization of Nanofibrils Obtained by Tempo Mediated Oxidation of Alkaline Pulp from *Schinus molle*

P-06

Elif Koçar, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

Title: Functionalization and Optimization of Magnetic Nanoparticle Systems: Designing Magnetic Protein Sensors

P-07

Didzis Salnajs, University of Latvia, Latvia

Title: Synthesis and Characterization of Nanostructured Bi₂Se₃ films and Bi₂Se₃@SWCNT Heterostructures

P-08

Yun-Hae Kim, Korea Maritime and Ocean University, South Korea

Title: Synergetic Effects of Nanoparticles in Thermoset Composites

P-09

Hesham A. Hamad, City of Scientific Research and Technological Applications, Egypt

Title: $\text{Co}_x\text{Cu}_y\text{Fe}_2\text{O}_4$ as Novel Nanocatalysts for Production of Biodiesel from Waste Frying Oil

e-Poster Presentations

EP-01

Saulius Grigalevicius, Kaunas University of Technology, Lithuania

Title: New Fluorene Based Derivatives for Solar Cells

EP-02

Joanna Sypniewska, Gdansk University of Technology, Poland

Title: Surface Structure Properties of $\text{Ti}_{13}\text{Nb}_{13}\text{Zr}$ Titanium Alloy Subjected to Laser Modification and MAO Process

Day 2 Concludes followed by Panel Discussion - Awards & Closing Ceremony

Virtual Programme

March 27-28, 2023, Virtual Program

Day 1 March 27, 2023 GMT (London Time: 10.00 - 15.50)

10.00 - 10.15

Introduction

Oral Presentations

10.15 - 10.40

Zihao Tan, Institute of Metal Research, Chinese Academy of Sciences, China

Title: Thermal-Mechanical Fatigue Behavior and Damage Mechanisms of A Fourth-Generation Single Crystal Superalloy

10.40 - 11.05

Ailar Assambayeva, I.M.Sechenov First Moscow State Medical University (Sechenov University), Russia

Title: The First Experience of Using Tissue-Engineered Constructs for Surgical Correction of Anterior Vaginal Wall Prolapse

11.05 - 11.30

Łukasz Pawłowski, Gdańsk University of Technology, Poland

Title: Properties of Smart CS/EE100 and CS/P4VP Biopolymer Coatings Electrophoretically Deposited on Modified Titanium Surfaces

11.30 - 11.55

Athanasios Katsouras, University of Ioannina, Greece

Title: Design and Development of Binary Blends Consisted of New Conjugated and Diblock Copolymers for Applications in Active Packaging

11.55 - 12.20

Debojyoti Mandal, Lovely Professional University, India

Title : Formulation and Optimization of Sinapic Acid (SA) Loaded Guar Gum Nanoformulation *via* Box-Behnken Design Against Diabetic Wound Healing

12.20 - 12.45

Khadija Boukholda, Faculty of Sciences of Sfax, Tunisia

Title : Silica Nanoparticles Induce Neurotoxicity in Striatum Region by Activating Oxidative Stress and Apoptosis-Related Gene Expression in Adult Male Rats: Possible Involvement of Nrf2/HO-1 and Apoptotic Pathways

12.45 - 13.10

Tan Eng Pei, Universiti Tunku Abdul Rahman, Malaysia

Title: Antifungal Activity of Zinc Oxide Nanoparticles Against *Saccharomyces Cerevisiae*

Lunch (13.10 - 13.40)

13.40 - 14.05

Venu Madhav V. V., Velagapudi Ramakrishna Siddhartha Engineering College, India

Title: Influence of the Laminate Thickness and the Thermal Loads on the Buckling of a Cylindrical Shells

14.05 - 14.30

Refka Sai, Université de Carthage, Tunisia

Title: Impact of Iron Pyrite Nanoparticles Sizes in Photovoltaic Performance

14.30 - 14.55

Ali Rezaei, Iran University Of Science And Technology, Iran

Title: Graphene-Oxide (GO) Electrophoretic Thin Film Deposition on Titanium

14.55 - 15.20

Alicja Stanislawska, Gdansk University of Technology, Poland

Title: Determination of Nanomechanical Properties of Bacterial Nanocellulose Modified *In situ* with Hyaluronic Acid

Keynote Presentation

15.20 - 15.50

Orlando Auciello, University of Texas-Dallas, USA

Title: Science and Technology of Unique Multifunctional Ultrananocrystalline Diamond (UNCD™) Coating for New Generations of Industrial, High-Tech and Implantable Medical Devices/Prostheses

Day 1 Concludes

Day 2 March 28, 2023 GMT (London Time: 10.00 - 16.45)

Keynote Presentations

10.00 - 10.30

Token Ahmad, Jamia Millia Islamia, India

Title: Binary and Ternary Heterostructured Nanomaterials for Catalysis in H₂ Generation

10.30 - 11.00

Osman Adiguzel, Firat University, Turkey

Title : Deformation-Temperature Dependent in Memory Behavior of Shape Memory Alloys

Poster Presentation

11.00 - 11.15

Phanitchanun Thanawattana, Chulalongkorn University, Thailand

Title: Effect of PLA-g-HA on Mechanical and Thermal Properties of PLA/PCL Blend Nanocomposites

11.15 - 11.30

Hameed Ullah, Yantai Institute of Coastal Zone Research, Chinese Academy of Sciences, China

Title: A Fast Method for Nanocomposite PbS Synthesis: Preparation and Characterization

11.30 - 11.45

Alicja Stanislawska, Gdansk University of Technology, Poland

Title: Determination of Nanomechanical Properties of Coatings Produced by the Micro Arc Oxidation Method on 5056 and 7075 Aluminum Alloys

11.45 - 12.00

Maryam Moghtaderi, University of Tehran, Pasteur Institute of Iran, Iran

Title: PEGylated Bleomycin-Loaded Liposomes as a New Approach to Cancer Treatment

12.00 - 12.15

Yakov G. Verkhivker, Odessa National University of Technology, Ukraine

Title: Use of Nanotechnologies in the Production of Canned Ketchup and Sauces

12.15 - 12.30

Ales Mishchenko, A.A. Galkin Donetsk Institute for Physics and Engineering, Ukraine

Title: Effect of Structure Defects on Spectrum of Electromagnetic Excitations in Coupled Microcavities Array Containing Quantum Dots

Oral Presentations

12.30 - 12.55

Twinkle Garg, Banasthali Vidyapith, India

Title: Design, Development and Characterization of Rivastigmine Loaded Herbal Hybrid Nanoparticles for Treatment of Alzheimer's Disease

12.55 - 13.20

Thierno Souleymane Barry, Pan African University Institute for Basic Sciences Technology and Innovation, Kenya

Title: Bayesian Joint Spatial Modelling of Anemia and Malaria in Guinea

13.20 - 13.45

Niharika, Metro College of Health Sciences and Research, India

Title: Pressure Sensitive Adhesives in Transdermal Drug Delivery

13.45 - 14.10

Sujoy Kumar Dey, Sikkim Manipal University, North East Regional Institute of Science and Technology (NERIST), India

Title: Porous PEEK/HA Composites: A Candidate of Orthopedic Implant Material

14.10 - 14.35

Vladimir V. Egorov, FSRC“Crystallography and Photonics”, Russian Academy of Sciences, Moscow, Russia

Title: Quantum-Classical Mechanics: Principles, Applications, and Prospects

14.35-15.00

Zaineb Bakari, National Engineering school of Sfax, Tunisia

Title: Potential Valorization of Agricultural Waste into Low-Cost Activated Carbon for the Removal of Organic and Inorganic Contaminants from Wastewater

15.00-15.25

Subhajit Kar, Indian Institute of Science Education and Research, India

Title: Carbon Based Nanomaterials for Energy Application

15.25-15.50

Ali Rezaei, Iran University Of Science And Technology, Iran

Title: Dc Electroplating of Cobalt-Nickel Thin Film on Copper Substrate for Magnetic Applications

15.50-16.15

Jagadish Chandra Tarafdar, Indian Council of Agricultural Research, India

Title : Nanofertilizer: Unique Material for Global Farming

Video Presentation:

16.15 - 16.30

Yarub Al-Douri, American University of Iraq, Iraq

Title : Quinternary Alloy for Optoelectronic Applications

16.30 - 16.45

Shymaa S. Medany, Cairo University, Egypt

Title: NiO Nanoparticles as an Electrocatalyst for Urea Electro-Oxidation in Alkaline Medium

Day 2 Concludes Followed by Vote of Thanks

For time reference please check with time Zone at:
<https://www.worldtimebuddy.com/>

Forthcoming Events

International Conference on **Biomaterials and Biodevices**

September 25-26, 2023 | Paris, France



2nd International Conference on **Neurology and Brain Disorders**

November 2-3, 2023 | London, UK



Internarional Conference on **Hematology and Blood Disorders**

November 6-7, 2023 | Paris, France



European Conference on **Human Genetics**

November 6-7, 2023 | Paris, France



International Conference on **Gynecology and Obstetrics**

November 6-7, 2023 | Dubai, UAE



International Conference on **Biomedical Science and Engineering**

November 6-8, 2023 | Dubai, UAE



International Confernce on **Clinical Case Reports**

November 8-9, 2023 | Dubai, UAE



2nd International Conference on **Materials Science & Engineering**

November 8-9, 2023 | Dubai, UAE



2nd European Congress on **Chemistry and Applied Sciences**

November 9-10, 2023 | Paris, France



2nd International Conference on **Catalysis & Chemical Engineering**

November 9-10, 2023 | Paris, France



European Congress on **Renewable Energy and Sustainable Development**

November 16-17, 2023 | Rome, Italy



European Congress on **Biopolymers and Bioplastics**

November 16-17, 2023 | Rome, Italy



2nd International Conference on **Nanomaterials and Nanotechnology**

November 20-21, 2023 | Vienna, Austria



2nd European Congress on **Microbiology**

November 20-21, 2023 | Vienna, Austria



2nd International Conference on **Infectious Diseases**

November 20-21, 2023 | Vienna, Austria



2nd International Conference on **Addiction & Psychiatry**

November 20-21, 2023 | Vienna, Austria

