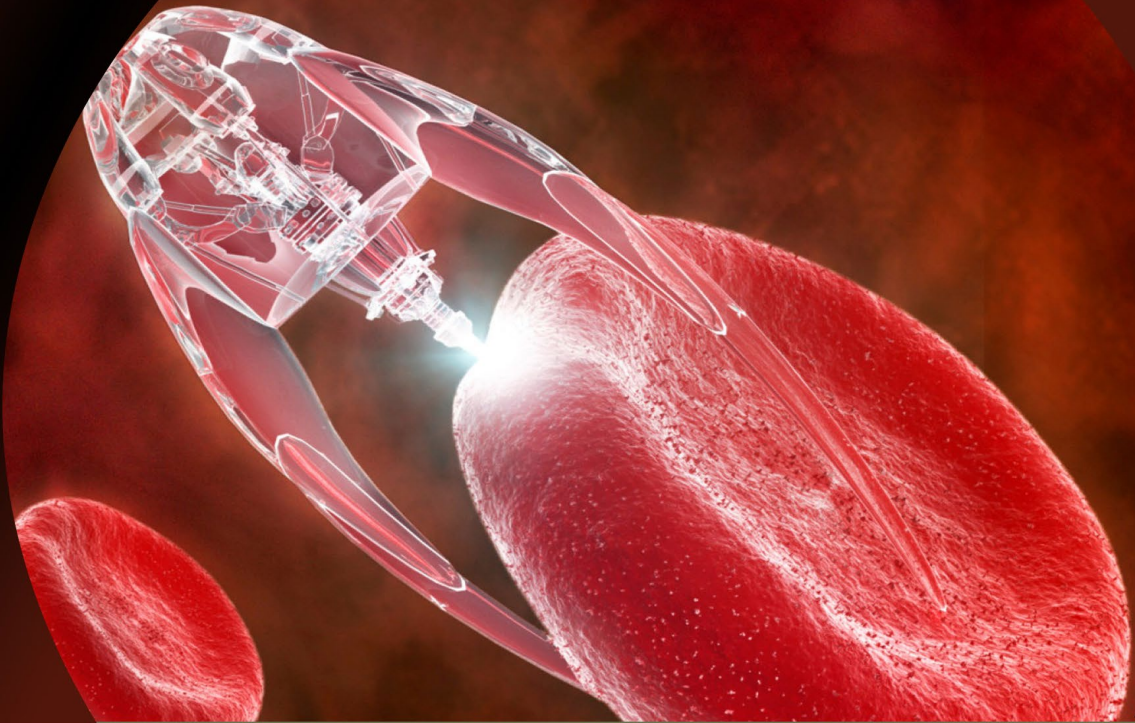




BioCore

Exploring Scientific Community

Scientific Program



2nd World Congress & Expo on

Nanotechnology & Materials Science

**June 25-27,
2018
Dubai, UAE**

Conference Secretariat

BioCore Group, 3409 Grove Gate CT, APT-1712,
Richmond-23233, Virginia, USA

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Scientific Program

Day-1 (June 25, 2018)

08:00-09:30 Registrations

Welcome Coffee Break @ Foyer B 08:30-08:45

Emirates A

09:30-10:00 **Opening Ceremony**

Keynote Forum

10:00-10:05 Introduction

10:05-10:35 **Raman Singh**

Department of Chemical Eng, Monash University, Australia

10:35-11:05 **G. Louis Hornyak**

Center of Excellence in Nanotechnology (COEN), Asian Institute of Technology, Thailand

Group Photo Coffee Break @ Foyer B 11:05-11:20

11:20-11:50 **A.S.Khanna**

Department of Metallurgy, IIT Bombay, India

Major Session:

Nanotechnology in Healthcare, Materials for Green Technology, Nanotoxicity, Nanotech in Energy

Session Chair: Khaled Greish, Arabian Gulf University, Manama, Kingdom of Bahrain

Session Co-Chair: Nakuleshwar Dut Jasuja, Vivekananda Global University & VIT, India

11:50-12:10 **Title: Styrene maleic acid encapsulated raloxifene micelles for management of inflammatory bowel disease**

Khaled Greish, Arabian Gulf University, Manama, Kingdom of Bahrain

12:10-12:30 **Title: Optimization and Evaluation of Novel Polymeric Transdermal Patch for Anti-atherosclerotic Activity**

Nakuleshwar Dut Jasuja, Vivekananda Global University & VIT, India

12:30-12:50 **Title: Facile preparation of Bi₂WO₆/CdS nanowires hybrid heterostructured photocatalyst with enhance Visible light driven photocatalytic activity**

Muhammad Arif, Nanjing University of Science and Technology, China

Lunch Break @ Foyer B 12:50-13:35

13:35-13:55 **Title: Human Papillomavirus Infection in genital Women in four regions of Senegal**

El HadjiSeydou Mbaye, International Agency for Research on Cancer (IARC/WHO), Lyon, France

13:55-14:15 **Title: Nano biotechnology for enhancing agri productivity to eliminate global hunger**

R.C.Yadav, ICAR-CSWCRTI, Research Centre, Agra, Uttar Pradesh, India

Major Session:

Nanodevices, Nanosensors, Nanoelectronics

Session Chair: Shu-Fen Hu, National Taiwan Normal University, Taiwan

Session Co-Chair:

- 14:15-14:35 Title: Silicon Microwire Arrays Decorated with Dichalcogenides for Water Photoelectrolysis**
Shu-Fen Hu, National Taiwan Normal University, Taiwan
- 14:35-14:55 Title: All-Inorganic Perovskite Quantum Dots Nanocomposites For the Application in Light-emitting Diodes**
Ru-Shi Liu, Department of Chemistry, National Taiwan University, Taiwan
- 14:55-15:15 Title:Kaushal and Gravity**
Prashant Chauhan, Business Intelligence and Process Management, Tata Consultancy Services, India
- 15:15-15:35 Title: Photoelectrochemical Sensors for the Rapid Detection of DNA Damage Induced by Some Nanoparticles**
M. Jamaluddin Ahmed, Department of Chemistry, University of Chittagong, Bangladesh

Coffee Break @ Foyer B 15:35-15:50

- 15:50-16:10 Title: Designing Low-Power VLSI Circuits: Practical Recipes**
Subir Kumar Sarkar, Department of Electronics and Telecommunication Engineering, Jadavpur University, Kolkata, India
- 16:10-16:30 Title: Electro kinetic fractal dimension for characterizing Shajara reservoirs of the Shajara Formation**
Khalid Elyas Mohamed Elameen Alkhidir, Riyadh, King Saud University, Saudi Arabia

Major Session:

Polymer Technology, Atomic Bonding

Session Chair: A.S.Khanna, Department of Metallurgy, IIT Bombay, India

Session Co-Chair: R.Thiirunakaran, CSIR-Cental Electrochemical Research Institute, India

- 16:30-16:50 Title:Graphene Based Protective Coatings**
A.S.Khanna, Department of Metallurgy, IIT Bombay, India
- 16:50-17:10 Title:Automotive Graphene-based Nanocomposites**
Ahmed Elmarakbi, University of Sunderland St Peter's Campus, St Peter's Way Sunderland, United Kingdom
- 17:10-17:30 Title:Novel chelated P-Toluenesulfonic acid via sol-gel synthesis of spinel LiMn₂O₄ andLiMn_{1.98} MO₄ (M=Cu,Mg,Tb,Dy,Ho,Er:0.01-0.10) high performing cathode materials for lithium rechargeable batteries**
R.Thiirunakaran, CSIR-Cental Electrochemical Research Institute, India
- 17:30-17:50 Title:Synthesis and thermal properties of new Nano star-shaped block copolymers**
Hadi Al-Lami, College of Science, University of Basrah, Iraq
- 17:50-18:10 Title:Poly (vinyl alcohol) nanocomposite membranes for pervaporation process**
Soney George, Department of Basic Sciences, Amal Jyothi College of Engineering, India
- 18:10-18:30 Title:Biological Studying of Some First Series Transition Metals Complexes with Adenine Ligand**
Mabrouk M. Salama, Department of Chemistry, University of Benghazi, Benghazi, Libya
- 18:30-18:50 Title: Manifestation of Berry phase in graphene on a corrugated substrate subjected to chiral excitation radiation**
Hamed Koochaki Kellardeh, Center for Nano-Optics (CeNO), Georgia State University, USA

18:50-19:10 **Title: Semiconductor assisted photocatalytic treatment of dye, antibacterial and antimetabolic activity via electrochemically synthesized ZnS, ZrS₂ /ZnS, In₂ S₃ nano photo-catalysts and study of optical, electrical and thermal properties of In₂ S₃ /PVA/PEO nanocomposite polymer films**

Hosaholalu Balakrishna Uma, Department of studies in Chemistry, Manasagangotri, University of Mysore, Mysuru, India

19:10-19:30 **Title: Simulation of a sputtered magnetron unit with a double target**

Kozin Alexander Andreevich, St. Petersburg State Electrotechnical University, Russia

Day-2 (June 26, 2018)

09:00-10:00 Registrations

Welcome Coffee Break @ Foyer B 08:30-08:45

Emirates A

10:00-10:05 Introduction

Group Photo Coffee Break @ Foyer B 10:05-10:20

Major Session:

Biomaterials, Mining & Metallurgy, Carbon Nanotubes

Session Chair: G. Louis Hornyak, Center of Excellence in Nanotechnology Asian Institute of Technology, Thailand

Session Co-Chair: Yong Zhou, National Laboratory of Solid State Microstructures, Nanjing University, China

10:20-10:40 **Title: Valuable compounds from ionic liquid based nanoparticles in valorization of the biomass derived RED HOT acids**

Ewa Bogel-Lukasik, Department of Chemistry, Faculty of Science and Technology, New University of Lisbon, Caparica, Portugal

10:40-11:00 **Title: Utilization of carbon source: solar light-driving photoconversion of CO₂ into renewable hydrocarbon fuels**

Yong Zhou, National Laboratory of Solid State Microstructures, Nanjing University, China

11:00-11:20 **Title: Comparative Simulation and Experimental Determination of Reflection-Loss Mitigation with Zinc Oxide Nanostructured Coatings on Glass for Solar Cell Applications**

G. Louis Hornyak, Center of Excellence in Nanotechnology (COEN), Asian Institute of Technology, Thailand

11:20-11:40 **Title: Microwave assisted Synthesis of Earth Abundant Semiconductors**

Joseph Sebastian Pathiyamattom, Renewable Energy Institute, Temixco, Morelos, Mexico

Coffee Break @ Foyer B 11:40-11:55

Major Session:

Nanooptics, Nanophotonics, Nanomagnetism

Session Chair: Surender kumar, Ramjas College, University of Delhi, India

Session Co-Chair:

11:55-12:15 **Title: Blue Emission from ZnO multilayer nanostructured thin film and modifications by 100 MeV Ag SHI irradiation**

Surender kumar, Ramjas College, University of Delhi, India

12:15-12:35 **Title: Synthesis of Manganese (Mn) Doped MgO Nanoneedles for Optical Applications**

Neeraj Marwaha, CSIR NPL New Delhi, India

12:35-12:55 **Title: Gold-coated magnetic nanoparticles for the wiring of enzymes**

Justina Gruzauskaite, Life Science Center, Vilnius University, Vilnius, Lithuania

12:55-13:15 **Title: Relativistic elastic scattering of hydrogen atoms by positron impact with anomalous magnetic moment effects**
Manaut Bouzid, Research Team in Theoretical Physics and Materials (ERPTM), FP-USMS Béni Mellal, Morocco

Lunch Break @ Foyer B 13:15-14:00

Posters Sessions 14:00-15:00

- P-001** **Title: Self-Cleaning and UV Protection Properties of Natural Fibers using Nanotechnology**
Eman Mohamed El-khatib, National Research Center Egypt, Egypt
- P-002** **Title: The Effects of Calcium Carbonate filler on the Characteristics of HDPE/ CaCO₃ Nanocomposites**
Benouali Djillali, University of Sciences and Technology- Mohammed Boudiaf, Oran, Algeria
- P-003** **Title: Development of Ni-Fe nano structured multilayer coatings, characterization and its corrosion behavior**
Rashmi D, Srinivas School Of Engineering, India
- P-004** **Title: Groundwater Contamination by Nutrients: Case of Gadaïne-AinYaghout Plain (Northeast of Batna), Algeria**
Chettah Wahid, University of Constantine, Algeria
- P-005** **Title: Afghanistan traditional lime plaster (lime render)**
Gul Rahman Abdulrahimzai, Kardan University, Afghanistan
- P-006** **Title: Dual-band ultraviolet and infrared photodetector on Si substrate**
Zagarzusem Khurelbaatar, Mongolian University of Science and Technology, Mongolia
- P-007** **Title: Nanoscale magnetic composites based on magnetite, stabilized with biopolymers (humic acids, chitosan, pectin) during oxygen activation**
Baizhomartov Bedelzhan, Scientific-Manufacturing Technical Center “Zhalyn”, Republic of Kazakhstan
- P-008** **Title: Synthesis, macromolecular design and functioning of new magnetic composites based on magnetite and stimulus (pH, thermo-, electro) sensitive copolymers**
Dossumova Binara, Scientific-Manufacturing Technical Center “Zhalyn”, Republic of Kazakhstan
- P-009** **Title: Correlation between ferromagnetic resonance and densification of RE-substituted polycrystalline ferrites**
Alina Manzoor, Department of Physics, The Islamia University of Bahawalpur, Bahawalpur, Pakistan
- P-010** **Title: Magnetic properties of Ni nanowires growth within porous anodic aluminum oxide (AAO) template**
Sedigheh Dadras, Department of Physics, Faculty of Physics and Chemistry, Alzahra University, Iran
- P-011** **Title: Levels of copper and zinc in saliva**
Irena Ivanova, Clinicial Laboratory Department, Medical University Sofia, St. Ivan Rilski University Hospital, Bulgaria
- P-012** **Title: PC3 cells imaging by targeted conjugation of anti-PSCA antibody to dextran super paramagnetic iron oxide nanoparticles**
Mahboube shahrabi Farahani, Iran University of Medical Sciences, Iran
- P-013** **Title: Botanical and Biotechnological studies of Genus Asparagus**
Sally.F.Desoukey, Faculty of Agriculture –Cairo University, Egypt

- P-014 **Title: Assesment of pyrophyllite powder used as cement substitute in polypropylene fiber concrete**
Sabria Malika Mansour, University M'Hamed Bougara, Algeria
- P-015 **Title: Exploring the possibility of solubility enhancement using mesoporous silica as carrier**
Jyotsana R.Madan, Smt. Kashibai Navale College of Pharmacy, India
- P-016 **Title: Use of Nano-Technology in Highway Engineering**
Khan Mohammad Shinwaray, Civil Engineering Department, Kardan University, Afghanistan
- P-017 **Title: Preparation and Characterization of Stimuli-Responsive Nanocellulose-Nanochitosan Shell Microspheres Through Layer-by-Layer Assembly**
John Vincent M. Tumaneng, School of Science and Engineering, Ateneo de Manila University, Philippines
- P-018 **Title: Fabrication of Cellulose Acetate/copper oxide Nano-composite based transparent thin film doped with Flavonoid (Quercetin) for UV Radiation Shielding**
Fozia Z. Haque, Maulana Azad National Institute of technology, Bhopal, M.P, India
- P-019 **Title: Fabrication of Transparent Thin film of Cellulose Acetate/Zinc Oxide Nano-composite with Added Flavonoid (Quercetin) for the application of UV Radiation Shielding**
Fozia Z. Haque, Maulana Azad National Institute of technology, Bhopal, M.P, India
- P-020 **Title: Simple Sythesis of Zn-ferrite Mesocrystals Used for Removal of Cr(VI) from Aqueous Solution**
Sang Nguyen Xuan, Vietnam Maritime University, Hai Phong City, Viet Nam
- P-021 **Title: Quantative electron microscopic analysis nanoparticles of virus-like symbionts of Entamoeba**
Karlen Hovnanyan , Organic and Pharmaceutical Center of Technological Chemistry of NAS Armenia, Armenia

Best Poster Award Presentation

Coffee Break @ Foyer B 15:00-15:15

Major Session:
Nanotechnology, Nano Science

Session Chair:

Session Co-Chair:

- 15:15-15:35 **Title: Nanotechnology to Improve Dyeability of wool fibers with saffron yellow and red mixture**
Nagia Farag Ali, Dyeing and printing department, National Research Centre, Egypt
- 15:35-15:55 **Title: Paper-based Automated ELISA**
Mostafa Amer, University of Science and Technology at Zewail City, Egypt
- 15:55-16:15 **Title: Bioanalytical method development and biological assessment of terbinafine hcl in vivo from nanoemulsion and other dosage forms**
Gampa Vijaya Kumar, Department of Pharmacy, KGR Institute of Technology and Management, India
- 16:15-16:35 **Title: Laccase–silica nanoparticle conjugates can efficiently reduce the early maturation risk due to BPA in female Oreochromis mossambicus and its toxic load from the contaminated effluent**
Chinnaiah Amutha, Madurai Kamaraj University, Tamilnadu, India

Day-3 (June 27, 2018)

09:00-10:00 Registrations

Welcome Coffee Break @ Foyer B 08:30-08:45

Emirates A

Major Session: Nanomedicine, Cancer Nanotechnology

Session Chair: Md Yousuf Ansari, Maharishi Markandeshwar University, India

Session Co-Chair:

10:00-10:20 Title: Histological Studies on Heteracris littoralis (Rambur) Treated with Silica Nano-particles / Challenger Formulation

Aziza Sharaby, Department of Pests and Plant Protection, National Research Centre, Giza, Egypt

10:20-10:40 Title: Comparative in-vitro studies of PLGA-PEG encapsulated miltefosine and miltefosine against Leishmania donovani

Md Yousuf Ansari, M.M. College of Pharmacy, Maharishi Markandeshwar University, Mullana, Ambala, Haryana, India

10:40-11:00 Title: Selective Metabolic blackout in hepatocellular carcinoma cells by submicromolar iodoacetate-loaded galactosylated nanoparticles

Asmaa Mohamed Reda, Center for nanotechnology, Zewail City of Science and technology, Egypt

11:00-11:20 Title: Toxicity of thiolated silica nanoparticles modified with sulfobetaine methacrylate for potential use in chemotherapy drug conjugation

Abdulmajeed Almutary, School of Medicine, Nursing and Health Sciences, Flinders University, Saudi Arabia

Coffee Break @ Foyer B 11:20-11:35

Major Session: Nanomaterials, Nanostructures, Materials Science & Engineering

Session Chair:

Session Co-Chair:

11:35-11:55 Title: Microstructural Properties of ZnO Powder Nanostructures Prepared by Mechanical Alloying

Oudjertli Salah, University of Badji Mokhtar Annaba, Algeria

11:55-12:15 Title: Formulation of Exemestane HCl solid lipid nanoparticles for bioavailability enhancement by high speed homogenizer

Bhupendra Prajapati, Shree S.K. Patel College of Pharmaceutical Education and Research, Ganpat University, Gujarat, India

12:15-12:35 Title: High Entropy Alloys: Materials, Processing, Synthesis & Applications

A. Kanni Raj, Veltech Dr.RR & Dr.SR Technical University, India

12:35-12:55 Title: Biologics Industry: Operational and Technical Challenges for Drug Development, Scale Up Higher Scale Manufacturing

Sumant Chaubey, Maharaja Sayajirao University, Vadodara, Graduation B.Sc.-Zoology and Chemistry -Banaras Hindu University, Varanasi, India

12:55-13:15 Title: Classification of Gas Mixtures

Ashutosh Mishra, Indian Institution of Technology (Banaras Hindu University), India

13:15-13:35 Title: Sludge as fertilizer in Jordan: quality and safety considerations

A. A. Ramanathan, Freelance researcher, Jordan

Closing Ceremony