

**5th Edition of Nanotechnology and
Nanomaterials Virtual**

December 09, 2022



V-NTNM2022

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Webinar
Timings

Speakers
Timings

07:00 – 07:10

Introduction



Plenary Sessions

07:10 – 07:50

16:10 – 16:50

Title: A Pure Titania Photocatalyst: Preparation, Characterization and Photocatalytic Activity of Octahedral-Shaped Anatase Particles

Bunsho Ohtani, Hokkaido University and Nonprofitable Organization touche NPO, Japan.

07:50 – 08:30

13:20 – 14:00

Title: Designing of Functional Nano-Materials for Hydrogen Production using Overall Water Splitting Phenomenon

Tokeer Ahmad, Jamia Millia Islamia, India.



Keynote Sessions

08:30 – 09:05

16:30 – 17:05

Title: NANOGARD SC202 - Self Cleaning and Antifogging Coating for Automobile Industry

Vengadaesvaran Balakrishnan, UM Power Energy Dedicated Advanced Centre, Malaysia.

09:05 – 09:40

14:35 – 15:10

Title: Biogenic Synthesis of Multi-Metallic Nanoparticles: Challenges & Future Prospects

Vikas Shrivastava, Amity University, India.

09:40 – 10:15

10:40 – 11:15

Title: Hetero-structure-based Catalyst Nanomaterials for Visible Light-driven Photocatalytic CO₂ Reduction Reactions

Blaž Likozar, National Institute of Chemistry, Slovenia.

10:15 – 10:50

18:15 – 18:50

Title: Nanocrystalline Tungsten Trioxide Cathode Films Prepared by Ultrasonic Spray Deposition for Electrochromic Applications

Chi-Ping Li, National United University, Taiwan.

Title: Improving the Reliability Design of Mechanical Systems such as Refrigerator

Seongwoo Woo, Ethiopian Technical University, Ethiopia.

Title: Domain wall Stability switching in magnetic nanowires for nanomemory storage devices

Mohammed Al Bahri, A'Sharqiyah University, Oman.

Title: Contactless Magnetic Sensing in Condition Monitoring and Anomaly Detection for Smart Grid: New Possibilities and Alternatives

Philip Pong, New Jersey Institute of Technology, USA.

Title: Experimental Evolution of Magnetite Nanoparticle Resistance in Escherichia coli

Akamu Jude Ewunkem, Winston Salem State University, USA.



Invited Sessions

Title: Cyclable carbon dot/chitin nanocrystal hybrid for selective detection and adsorption of Cr(VI) and Co(II) from aqueous media

Elena F Krivoschapkina, ITMO University, Russian Federation.

Title: Nanocomposite semiconducting materials for efficient utilization of visible light in photocatalytic reactions

Dmitry Selishchev, Boreskov Institute of Catalysis, Russian Federation.

Title: Biopolymeric hybrid nanocomposites materials 3D printing with nanotechnological applications in the water treatment

Estefanía Baigorria, Sao Paulo State University, Brazil.

Title: Supercapacitive Effects of Multi-Walled Carbon Nanotubes-Functionalized Spinel Copper Manganese Oxide

Christopher Nolly, University of the Western Cape, South Africa.



E-poster Sessions

14:30 – 14:40

15:30 – 15:40

Title: Application of single-crystal V₂O₅ in photodegradation of selected pharmaceutical products

Maria Savanovic, University of Novi Sad, Serbia.

14:40 – 14:50

08:40 – 08:50

Title: In Vitro Ruminant Digestibility Test of Forage (*Festuca arundinacea*) biofortified with Selenium Nanoparticles

Gabriela Medina-Pérez, Universidad Autonoma del Estado de Hidalgo, Mexico.

14:50 – 14:60

22:50 – 23:00

Title: Metal selenides as electrodes for sustainable energy storage materials

Muhammad Sajjad, Zhejiang Normal University, China.

Closing Ceremony