

5th Edition of Materials Science & Nanoscience Webinar

July 29, | 07:00 – 13:20 GMT

July 30, | 07:00 – 11:55 GMT

V-Materials2022



07:00 – 07:10

Introduction



Keynote Sessions

Webinar
Time Zone

Speakers
Time Zone

07:10 – 07:45

15:10 – 15:45

Title: Rapid additive manufacturing anywhere, anytime

Wei Min Huang, Nanyang technological University, Singapore.

07:45 – 08:20

15:45 – 16:20

Title: Composite Sandwich Materials for Developing Rotor Blades of a Quadcopter Drone

Tai Yan Kam, National Yang Ming Chiao Tung University, Taiwan.

08:20 – 08:55

18:20 – 18:55

Title: Investigations into Human Body Fluid-assisted Fracture of Biodegradable Alloys for Temporary Implant Applications

Raman Singh, Monash University, Australia.

08:55 – 09:30

16:55 – 17:30

Title: Biopolymer membrane-based material in Fuel Cell Application

Norazuwana Shaari, Universiti Kebangsaan Malaysia, Malaysia.

09:30 – 10:05

11:30 – 12:05

Title: Potential use of electrospun nanofibers towards functional coatings with anti-corrosion and anti-icing properties

Ioana Carmen Vladu, CEST Centre of Electrochemical Surface Technology, Austria.

10:05 – 10:40

12:05 – 12:40

Title: Synthetic antiferromagnets for biomedical and flexible spintronic applications

Gaspare Varvaro, CNR – ISM, nM²-Lab, Italy.

10:40 – 11:15

13:40 – 14:15

Title: Bioactivity assessment of bacterial cellulose membranes enriched with parsley and lovage herbal extracts

Giorgiana M. Cătunescu, University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca (USAMV CN), Romania.

11:15 – 11:50

13:15 – 13:50

Title: Broadly applicable hydrogel fabrication procedure for mechanobiology investigation

Alessandro Gandin, Università degli Studi di Padova, Italy.

11:50 – 12:25

13:50 – 14:25

Title: Transport of CO₂- rich gas mixtures through polymeric membranes for CO₂/CO separation

Riccardo Checchetto, University of Trento, Italy.

12:25 – 13:00

07:25 – 08:00

Title: Electrospun Mats for the Delivery of Drugs in the Oral Cavity

Jose M. Cornejo-Bravo, Autonomous University of Baja California, Mexico.



Invited Sessions

13:00 – 13:20

16:00 – 16:20

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

Seongwoo Woo, Ethiopian Technical University, Ethiopia.



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07:10 – 07:45

10:10 – 10:45

Title: Shape Reversibility and Crystallographic Basis of Memory Behavior of Shape Memory Alloys

Osman Adiguzel, Firat University, Turkey.

07:45 – 08:20

09:45 – 10:20

Title: Graphene-based 3D scaffolds in future tissue engineering

Laila M. Montaser, Menoufia University, Egypt.

08:20 – 08:55

13:50 – 14:25

Title: Tools & Challenges in Nanocatalysis

Tokeer Ahmad, Jamia Millia Islamia, India.

08:55 – 09:30

16:55 – 17:30

Title: Solid State Recycling of Aluminium: A Sustainable Approach

Mohd Amri Lajis, Universiti Tun Hussein Onn Malaysia (UTHM), Malaysia.

09:30 – 10:05

15:00 – 15:35

Title: Designing of 2D material based heterostructure for solar photocatalytic water splitting

T. Mishra, CSIR-National Metallurgical Laboratory, India.

10:05 – 10:40

19:05 – 19:40

Title: Stereolithographic Additive Manufacturing of Practical Components

Soshu Kirihaara, Osaka University, Japan.



Invited Sessions

10:40 – 11:00

11:40 – 12:00

Title: Improvement of the anticorrosion resistance of nickel by polypyrrole coating electrosynthesized in phthalate medium

Zaynab Aouzal, Mohammed First University, Morocco.

11:00 – 11:20

15:30 – 15:50

Title: Study of the Dominant Physic-Chemical Properties of Different Clay Species

Suresh Aluvihara, University of Peradeniya, Sri Lanka.



Keynote Sessions-2

11:20 – 11:55

07:20 – 07:55

Title: Pathogenic α -synuclein cell-to-cell transmission mechanism and related therapeutic development

Xiaobo Mao, Johns Hopkins University School of Medicine, USA.

Closing Ceremony