

Global Experts Meeting on Frontiers in

Materials Science & Nanotechnology

October 17-19, 2019 | Rome, Italy



Frontiers Meetings Ltd

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Materials Science 2019



SCIENTIFIC PROGRAM

MATERIALS SCIENCE 2019

October 17-19, 2019 | Rome, Italy

Day 1 | October 17, 2019

09:00-11:00 Registration Desk

Morning Coffee Break 10:30-11:00

Inauguration and Introduction 11:00-11:10

Keynote Forum

11:10-12:00 Title: OD, 1D, 2D, and 3D semiconducting oxide nanostructures from disassembly/reassembly of MOFs synthesised by room-temperature electrochemical deposition

Charles Christopher Sorrell, University of New South Wales- Sydney, Australia

12:00-12:50 Title: Aluminium foam heat exchangers of thermally active pitched roofing systems

Jaroslav Jerz, Slovak Academy of Sciences, Slovakia

Discussion 12:50-13:00

Lunch Break 13:00-14:00

Speaker Session

14:00-14:35 Title: Characterization of transparent conductive thin films by the dynamical hot-probe method

Axelevitch Alexander, Holon Institute of Technology (HIT), Israel

14:35-15:10 Title: Synthesis of multi-metallic sub-nanoparticles based on atom hybridization

Kimihisa Yamamoto, Tokyo Institute of Technology, Japan

15:10-15:45 Title: Radiation synthesis of silver nanoparticles stabilized in natural polymer with a potential application as new and green fungicides for agriculture

Le Quang Luan, Biotechnology Center of Ho Chi Minh City, Vietnam

Discussion 15:45-15:55

Evening Coffee Break 15:55-16:15

16:15-16:50 Title: Ultra-precise processing and optical nonlinearity characterization of organic N-benzyl-2-methyl-4-nitroaniline crystal

Takashi Notake, RIKEN, Japan

16:50-17:25 Title: The effect of annealing treatment on the microstructure and adhesion-corrosion properties of ZnMg-Zn bi-layered coatings on steels

Soheil Sabooni, University of Groningen, The Netherlands

17:25-18:00 Title: Antibacterial finishing of viscose rayon fabric using silver nano particles

Hasabo A Mohamed Ahmed, Sudan University, Sudan

Discussion 18:00-18:10

Day 2 | October 18, 2019

09:00-09:35 Title: Heat storage materials for highly energy efficient buildings

Jaroslav Jerz, Slovak Academy of Sciences, Slovakia

09:35-10:10 Title: Aspects of plasma nitrided layers for unconventionally treated steel

Carmen-Penelopi Papadatu, Dunarea de Jos University, Romania

Morning Coffee Break 10:10-10:30

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| 10:30-11:05 | Title: Composites of polymer derived ceramics with graphene <i>Jean E Calderon, University of Central Florida, United States</i> |
| 11:05-11:40 | Title: Antioxidant and hepatoprotective activities of gold nanoparticles prepared by gamma co-60 irradiation <i>Nguyen Thanh Vu, Biotechnology Center of Ho Chi Minh City, Vietnam</i> |
| 11:40-12:15 | Title: Evaluation of Contact fatigue in a borided stainless steel <i>German A Rodríguez-Castro, Instituto Politécnico Nacional, Mexico</i> |
| 12:15-12:50 | Title: Growth of amorphous iron oxide thin films by a simple and non-toxic technique: Spray pyrolysis, and their transformation into FeS ₂ and FeSe ₂ films for low cost solar cells applications <i>Beya Ouertani, Science and Technology Park of Borj-Cedria & University of Carthage, Tunisia</i> |
| 12:50-13:25 | Title: Contact fatigue on iron boride coatings <i>Alfonso Meneses Amador, Instituto Politécnico Nacional, Mexico</i> |
| Discussion 13:25-13:30 | |
| Lunch Break 13:30-14:30 | |
| 14:30-15:05 | Title: WO ₃ nanoparticle film synthesized by HFCVD technique for H ₂ sensing <i>Sarai Cruz Leal, UPIBI-IPN, Mexico</i> |
| 15:05-15:40 | Title: Synthesis of pure phase zeolite BEA from high silica South African coal fly ash (CFA) extracts and its application <i>Nkululeko Z.N. Ndlovu, Cape Peninsula University of Technology, South Africa</i> |
| Discussion & Closing 15:40-16:00 | |
| Day 3 October 19, 2019 | |
| Networking and Meetings | |

