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NOVEMBER 18-19

2019

ROME, ITALY

Joint Event Proceedings of

25TH INTERNATIONAL CONFERENCE ON
MATERIALS SCIENCE AND NANOTECHNOLOGY
&
32ND INTERNATIONAL CONFERENCE ON
NANOSCIENCE, NANOTECHNOLOGY AND NANOENGINEERING
&
36TH GLOBAL CONFERENCE ON
SMART MATERIALS AND NANOTECHNOLOGY
&
INTERNATIONAL CONFERENCE ON
SATELLITE AND SPACE COMMUNICATIONS

Day 1 November 18, 2019

08:30-08:45 Registrations Open

Hall Appia1+2

conference**series**.com

09:00 - 09:10

Opening Ceremony

09:10-09:30 Introduction

Keynote

09:30-10:15 **Title: Nano Science & Nanotechnology in a modern society**
Marcel Van De Voorde, Univdersity of Technology, Netherlands

10:15-11:00 **Title: Molar concentration welcomes avogadro in postgenomic analysis**
A.I. Archakov, Institute of Biomedical Chemistry, Russian Federation

Networking and Refreshments & Group Photo 11:00-11:20

11:20-12:05 **Title: Nanotechnology based approaches for Cancer diagnosis and therapy**
Rosario M, University of Granada, Spain

12:05-12:50 **Title: Global diversity and collaborative practices are key to the evolution and advancement of satellite and space communications**
Judi Brown Clarke, Michigan State University, USA

Lunch Break 12:50 - 13:50 @ RBG

Sessions : Nano Engineering | Nanoscience and Technology | Nanomaterial Synthesis and Characterization | Materials Science and Engineering | Food & Nano

Session Chair: Kazuhiro Endo, Kanazawa Institute of Technology, Japan

13:50-14:20 **Title: Epitaxial non-c axis superconducting Bi-2212 thin films targeting novel THz planar devices**
Kazuhiro Endo, Kanazawa Institute of Technology, Japan

14:20-14:50 **Title: The effect of Co content and WC grain size on the thermal oxidation behaviour of WC-Co cemented carbides**
Nthape. P. Mphasha, University of the Witwatersrand, South Africa

14:50-15:20 **Title: Advanced characterization techniques of a hybrid material based on polymer and silica nanoparticles**
María Carolina Ruiz, Universidad Industrial de Santander, Colombia

15:20-15:50 **Title: Metal and non-metal doped CuO for glucose sensing**
Mahabubur, Chowdhury, Cape Peninsula University of Technology, South Africa

15:50-16:20 **Title: A Novel Lamb Wave Device Design Enabling Adjustable Phase by Applying an Analog-Voltage-Controlled Stress on Piezoelectric Film**
Salih Colakoglu, Marmara University, Turkey

Coffee Break & Poster Presentation 16:20-17:00 @Foyer

SNM1 **Fabrication and characterization of electrospun peptide-loaded polycaprolactone nanofibers**
Reem Alazragi, University of Jeddah, South Africa

SNM2 **Title: Ppb level room temperature NO₂ sensing using novel rheotaxially grown SnO₂ thin films**
Barbara Lyson – Sypien, Silesian University of Science and Technology, Poland

SNM3 **Title: Preparation of Mg-doped TiO₂ nanoparticles for dye-sensitized solar cell applications**
Mahtab Safaei, Sharif University of Technology, Iran

SNM4 **Title: Synthesis and characterization of smart hydrogels containing graphene nanosheets and magnetic nanoparticles for drug delivery applications**
Azadeh Tohidi, Sharif University of Technology, Iran

- SNM5** Title: **Surface modification and stabilization of TiO₂ nanoparticles for sonodynamic therapy**
Hamid Younesi, Sharif University of Technology, Iran
- SNM6** Title: **Photodynamic therapy by Er And Yb doped TiO₂ upconversion nanoparticles**
Pooria Akbari, Sharif University of Technology, Iran
- SNM7** Title: **Characterization of ciprofloxacin confined in silica porous an single wall carbon nanotubes**
Natalia Przybylska , Adam Mickiewicz University, Poland
- SNM8** Title: **Antimicrobial effects of ceragenin-conjugated gold nanoparticles against bacteria causing otitis media**
Suhanya Veronica Prasad, Medical University of Bialystok, Poland.

Closing Ceremony

Day 2 November 19, 2019

Hall Appia1+2

Keynote

- 09:30-10:15** Title: **Phospholipid micelles as the medicines themselves and drug delivery system**
A.I. Archakov, Institute of Biomedical Chemistry, Russian Federation
- 10:15-11:00** Title: **Silica based nanostructured biomaterials for hiperthermia and as MRI contrast agents**
Simion Simon, Babes Bolyai University, Romania

Coffee Break 11:00-11:20 @Foyer

- 11:20-12:05** Title: **Investigation on the reaction characteristics of a Zr-based metallic glass**
Chuan Ting Wang, Nanjing University of Science & Technology, China
- 12:05-12:50** Title: **How Safran group invent the future from innovation metallic materials and processes**
Laurent Ferrer, Safran Aircraft Engines, France

Lunch Break 12:50 - 13:50 @ RBG

Sessions : **Materials Science and Engineering | Nanoscience and Technology | Satellite Communications | Space exploration | Satellite Subsystems | Satellite Radiance**

Session Chair: **Kazuhiro Endo**, Kanazawa Institute of Technology, Japan

- 13:50-14:20** Title: **Advanced techniques for design and analysis of composite communication reflectors**
Tim Douglas, Wasatch Composite Analysis, USA
- 14:20-14:50** Title: **Digital assistant software to help thermal engineers to complete tasks**
Yannick Melameka, Nitrexo, Ireland
- 14:50-15:20** Title: **Earth Observation Satellites**
Jeffrey Weinrich, Science and Technology Corporation, NOAA, USA
- 15:20-15:50** Title: **Space-Based Solar Laser System Simulation for Transferring Power onto the Earth**
Yasser A. Abdel-Hadi, National Research Institute of Astronomy and Geophysics (NRIAG), Egypt
- 15:50-16:20** Title: **Optimization of alginate edible coatings incorporated with essential oil emulsion: Physical and Antibacterial properties**
Ruoyi Hao, University of South Bohemia, Czech Republic

Coffee Break 16:00-16:30 @ Foyer

Awards & Closing Ceremony