

Scientific Program

3rd International Webinar on

Laser, Optics & Photonics

Monday
April 18, 2022

Day 1 - April 18, 2022

10:00 - 10:10 Introduction

Oral Presentations

10:10 - 10:35 Ring - Core Optical Fibers for Orbital Angular Momentum Mode Communication
Yang Yue, Xi'an Jiaotong University, China

Keynote Presentations

10:35 - 11:10 Customized Soft Magnetic Alloys for L10 Spring Magnets
J.J. Sunol, University of Girona, Spain

11:10 - 11:45 Magnetism and Magnetocaloric Effect in Perovskites
Mohamed Ellouze, University of Sfax, Tunisia

11:45 - 12:25 Magnetic Compton Spectroscopy: A Novel Tool to Study the Spin Magnetic Moment
H. S. Mund, J P University, India

Oral Presentations

12:25 - 12:50 Removal of Microorganisms and Organic Compounds from a Pharmaceutical Wastewater Using Silver - Loaded Magnetic Nanoparticles
Rukiye Öztekin, Dokuz Eylül University, Turkey

12:50 - 13:15 Deep Learning Based Approach for Automated Quantitative Microstructure Analysis of NdFeB Sintered Permanent Magnet from Microscopy Data
Amit Kumar, Aalen University, Germany

Lunch (13:15 - 13:45)

13:45 - 14:10 Single Gold Nano - Bipyrmaid for Plasmonic Applications
Julien Laverdant, Université Claude Bernard Lyon, France

14:10 - 14:35 Improving the Reliability Design of Mechanical Systems such as Refrigerator
Seongwoo Woo, Ethiopian Technical University, Ethiopia

14:35 - 15:00 Disorder and Spin Ice
Sheetal Devi, Indian Institute of Technology Mandi, India

15:00 - 15:25 Adsorption of Copper from the Metal Industry Wastewaters Using Fe₂O₃ Nanoparticles
Rukiye Öztekin, Dokuz Eylül University, Turkey

Poster Presentations

15:25 - 15:40 Investigation of Changes in the Magnetic Properties of Carbon Nanotubes Functionalized with Iron Oxides
Halyna Ilnytska, National Academy of Sciences, Ukraine

15:40 - 15:55 MEAMOMU Same Polarity Coupler in a Vacuum Tube Model
Gregory Spaulding, MEAMOMU Technologies, USA

End of Day 1

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Tuesday
April 19, 2022

Day 2 - April 19, 2022

Oral Presentations

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| 10:00 - 10:25 | Core/Shell Magnetic Nanostructures And Ferrites Based Nanocomposites For Biomedical Applications
A.S.Kamzin , Ioffe Institute, St. Petersburg, Russia |
| 10:25 - 10:50 | Functionalized Electrospun Nanofibers for Water Remediation
Manish Kumar , Indian Institute of Technology Mandi, India |
| 10:50 - 11:15 | Tailored NiFe ₂ O ₄ Nanostructures: Synthesis, Structural, Vibrational, Magnetic Study
Manojit De , Chouksey Group of Colleges, India |
| 11:15 - 11:40 | Influence of Nd ³⁺ Doping on Structural and Magnetic Properties of Ni - Zn Spinel Ferrites
Raje Shaikh B.B , Homi Bhabha State University, India |
| 11:40 - 12:05 | Realization of Magnetostructural Coupling and Giant Magnetocaloric Effect in Off - Stoichiometric MnCoGe Alloys
K S Joseph Wilson , Madurai Kamaraj University, India |
| 12:05 - 12:30 | Enhanced Hydrogen Evolution Using Cu ₂ ZnSnS ₄ Nanoparticle Decorated CeO ₂ as a Noble Metal free p-n Heterojunction Photocatalyst
P.Kamaraj , Bharath Institute of Higher Education and Research, India |
| 12:30 - 12:55 | Localized Plasmon Resonance Enhances Trapping of Gold Nano Rods
Samaneh Birzhandi , Amirkabir University, Iran |
| 12:55 - 13:20 | Cumulative Effects of Laser and Spin Orbit Interaction (SOI) on the Thermal Properties of Quantum Pseudodot
Bernard Donfack , University of Dschang, Cameroon |

End of Day 2