Competition of Young Scientists

Institute of Inorganic Chemistry SAS, Bratislava
10.10.2024, room no. 107

09:00 Opening

09:05 Naser Hosseini – Wetting, high-temperature interactions, and brazing of (MoNbTaVW)C high entropy carbide ceramics by NiTa alloy

09:25 Asif Ali – Temperature Stable Dielectric Properties in $BaTiO_3$–$Bi(Mg_{2/3}Nb_{1/3})O_3$ - $NaNbO_3$ Solid Solution

09:45 Parisa Shotorban – Chitosan-based pH-sensitive antibacterial bionanocomposites with Laponite immobilized silver nanoparticles as drug delivery system

10:05 Viktória Planetová – Enhanced Luminescence Properties in Hybrid Systems Composed of Benzothiazole-Based Dyes and Layered Silicates

10:25 Leonardo Kleman – Synthesis and characterization of new BODIPYs for photodynamic therapy

Break (10:45 – 11:00)

11:00 Onat Başak – Impact of Calcium Nitrate Addition Timing on the Textural and Structural Properties of Mesoporous Bioactive Glass Nanoparticles

11:20 Vinny George – Functionalized Organoclay Films for Hydrogel Surface Modification

11:40 Guido de la Torre – The effect of surface treatment on the properties of silicon nitride with different sintering additives for bio application

12:00 Martina Vitázková – Magnetic mesoporous bioactive glass nanoparticles co-doped with cobalt and boron for enhanced angiogenesis

Lunch (12:20 – 12:50)

12:50 Ayesha Asbat - Pregabalin Derivatives and Their Metal Complexes: Insights from Computational Docking Studies

13:10 Garima Thakur – Integrating additive manufacturing and powder sintering techniques for fabricating complex-shaped translucent 3D glass

13:30 Anusha Sekar – Enhancing Thermal Barrier Coatings: Impact of Cerium Doping and Surface Roughness on CMAS Corrosion Resistance

13:50 Bryan Melo – Study of magnetic exchange interactions in Gd-radical compounds. An evaluation of meta-GGA functionals

14:20 Results

Committee:

doc. Ing. Zoltán Lenčéš, PhD.   Ing. Jarmila Mlynáriková, PhD.
doc. Ing. Mária Chromčíková, PhD.   Ing. Štefan Varga, CSc.
Ing. Michal Slaný, PhD.