

Competition of Young Scientists

Institute of Inorganic Chemistry SAS, Bratislava

23.10.2023, room no. 107

09:15 Opening

09:20 Alper Güneren – Improvement of the Performance of Silicon-Graphite Anodes by Ultrathin Atomic Layer Deposited ZnO Films

09:40 Mir Saeed Sajjadi – $\text{In}_2\text{S}_3/\text{Bi}_2\text{WO}_6/\text{Fe}_3\text{O}_4$ magnetic core-shell structure as an efficient catalyst for sono-photo hybrid catalytic degradation of tetracycline

10:00 Viktória Planetová – Elucidation of the mechanism of singlet oxygen formation by selected photosensitizers

10:20 Debora Mišenková – Quadratic spin-orbit mechanism of electronic g-tensor

10:40 Naser Hosseini - Joining of CVD β -SiC and SiC_f/SiC ceramics to themselves using in-situ formed SiC-ZrC interlayer

Break (11:00 – 11:10)

11:10 Inga Zhukova – Theoretical predictions and synthesis of $(\text{Ti-Zr-Hf-Nb-Ta})\text{B}_2$ structures with non-equimolar compositions

11:30 Sheeraz Khan – Corrosion of AZS refractory materials during production of Ba crystalline glass and design of methodology for their evaluation

11:50 Lucia Šedivá – Study of thermal behavior glasses in system $\text{Al}_2\text{O}_3\text{-Yb}_2\text{O}_3\text{-Er}_2\text{O}_3$

12:10 Ertugrul Varlik – Boron and Cobalt co-doped silicate-based bioactive glass scaffolds fabrication via Digital Light Processing (DLP): Optimization of the printing parameters

Lunch (12:30 – 13:15)

13:15 Vinny George - Sodium Alginate Microspheres for Controlled Drug Delivery

13:35 Sanam Bashir – Elastic moduli of pristine clay minerals and clay polymer hybrids

13:55 Martina Vitázková – Effect of Co and B co-doped mesoporous bioactive glass nanoparticles on various cell lines

14:15 Jakub Michalík – Preparation and spectral properties of Er, Yb and Li doped glass microspheres with YAG composition

14:35 Guido de La Torre – Heated and plasma treated silicon nitride with different sintering additives for biomedical application

15:10 Results

Committee:

Ing. Blanka Kubíková, PhD.
doc. Ing. Zoltán Lenčేశ, PhD.
Mgr. Marián Matejdes, PhD.

Ing. Monika Michalková, PhD.
Ing. Štefan Varga, CSc.