

Súťaž mladých pracovníkov do 35 rokov  
na ÚACH SAV Bratislava

Program



Bratislava, 05. 10. 2021

## Program Súťaže mladých pracovníkov do 35 rokov

Ústav anorganickej chémie SAV v Bratislave, miestnosť č. 107

### 09:00 Zahájenie

- 09:05 Eva Skoura** – Photoactive surfaces of polycaprolactone membranes modified with saponite and methyle blue
- 09:25 Dhiya Krishnan** – The electrical conductivity of the molten systems  $(\text{LiF}-\text{CaF}_2)_{\text{eut.}}-\text{NdF}_3$  and  $(\text{LiF}-\text{NaF})_{\text{eut.}}-\text{NdF}_3$  as electrolytes for the neodymium electrowinning
- 09:45 Hakan Ünsal** – In-situ graphene platelets formation and its suppression during reactive spark plasma sintering of boron carbide/titanium diboride composites
- 10:05 Debora Mišenková** – Relativistic four-component method for calculation of EPR g-tensor using London atomic orbitals

### Prestávka (10:25 – 10:35)

- 10:35 Patrícia Petrisková** – Preparation of thin layers of  $\text{TiO}_2$  on organic and inorganic substrates
- 10:55 Fatih Kurtuldu** – Cerium and gallium containing mesoporous bioactive glass nanoparticles for biomedical applications
- 11:15 Nursen Mutlu** – Preparation and characterization of Chitosan-Zn complex for wound healing applications
- 11:35 Florian Lemken** – Artificial Spin-Orbit Coupling Scaling: A Stress Test for Open-Shell DKS-DFT Formalisms regarding Hyperfine Coupling Constant Calculations

### Prestávka (11:55 – 12:35)

- 12:35 Ramu Ambati** – Corrosion of Hastelloy-N and Hastelloy-G35 caused by vapour generated from FLiNaK salt
- 12:55 Jakub Michalik** – Steady state and time resolved fluorescence spectroscopy of polythiophene
- 13:15 Sanam Bashir** – DFT study of hybrid structure of Montmorillonite with penta(2-oxazoline)
- 13:35 Alper Güneren** – Statistical approaches to powder and slurry preparation for Si/C anodes in Li-ion Batteries

### 14:10 Vyhlásenie výsledkov

#### Členovia komisie:

- Ing. Blanka Kubíková, PhD. – predseda komisie  
RNDr. Jana Madejová, DrSc. – člen komisie  
Ing. Anna Prnová, PhD. – člen komisie  
Ing. Zoltán Lenčoš, PhD. – člen komisie  
Mgr. Stanislav Komorovský, PhD. – člen komisie