

May 28, 2025

Session V

PHYSICAL ENGINEERING SPACE ENGINEERING

Committee: **doc. Ing. Miroslav Mikolášek, PhD.**
doc. Ing. Vladimír Kršjak, PhD.
Ing. Peter Ondrejka, PhD.

8:30 - 11:30

- 1. Structural characterization of twinning in β -Ga₂O₃ filament inclusions on Ga₂O₃ thin films epitaxially grown on sapphire substrates by MOCVD.**
Roshan Jeevan Chidambaram, Alica Rosová, Edmund Dobročka, Kristína Hušeková, Milan Ťapajna and Filip Gucmann
- 2. Binder free Ni-Ni(OH)₂ core-shell electrodes with enhanced specific capacitance for supercapacitor applications**
Áron Straňovský, Michaela Sojková, Rastislav Řeháček and Miroslav Mikolášek
- 3. *Impact of Short Current Pulse at Various State of Charge and State of Health Levels on Internal Resistance for Accurate LIB Temperature Estimation***
Matej Novák, Miroslav Mikolášek
- 4. *Temperature dependence effect on the spectrometric properties of pixel-based radiation detectors Timepix3 with different sensors***
Kurucová Nikola, Šagátová Andrea, Bergmann Benedikt, Smolyanskiy Petr
- 5. *Investigation of Neutron and Proton Irradiation Effects in Ferritic Alloys Using Positron Annihilation Techniques***
Sofia Gašparová, Vladimír Kršjak, Pavol Noga, Jaroslav Šoltés, Marek Mikloš, Dušan Vaňa, Stanislav Sojak, Martin Petriska, Yamin Song, Branislav Stríbrnský, Jarmila Degmová

14:00

Award Ceremony (AB-150)