81st International Scientific Conference of the University of Latvia 2023

Atomfizika, optiskās tehnoloģijas un medicīnas fizika

Atomic physics, optical technologies and medical physics

Friday, **17 February 2023, 10.00 AM**, online MT

Programma/Programme

Vadītājs/Chair: Dr. Mindaugas Tamosiunas		
10.15–10.30	**Kalvis Salmiņš** *Institute of Astronomy, University of Latvia*	**The First Satellite Photometry Results at the Satellite Laser Ranging Station 1884**
10.30–10.45	***Dr.Uldis Bērziņš*** *Institute of Atomic Physics and Spectroscopy, University of Latvia*	**Development of Ion Sources on Ion beam Apparatus GRIBA**
10.45–11.00	***Dr. Roman Viter*** *Institute of Atomic Physics and Spectroscopy, University of Latvia*	**Structural, optical and photoelectrochemical properties of Fe2O3/ZnO core-shell nanofibers**
11.00–11.15	***Dr.Teodora Kirova*** *Institute of Atomic Physics and Spectroscopy, University of Latvia*	**Structural, electronic and optical properties of wurzite ZnO from first principles**
11.15- 11.30	***Danute Stivriņa*** *Institute of Atomic Physics and Spectroscopy, University of Latvia*	**Quality control of photoinitiators of UV-curable coatings using spectroscopy methods**
11.30-12.30	**Kafijas pause/ Coffee break,**	
Vadītājs/Chair: Dr.Maksym Pogorielov		
12.30–12.45	***Dr.Mindaugas Tamosiunas*** *Institute of Atomic Physics and Spectroscopy, University of Latvia*	**Ultrasonic cavitation reveals Candida albicans pathogen growth on polycaprolactone microfibers containing selenium nanoparticles**
12.45-13.00	***Iryna Tepliakova*** *University of Latvia,*	**ZnO tetrapods/modified salan type ligands nanocomposites for optical detection of Cu^{2+} ions**

	Institute of Atomic Physics and Spectroscopy; Odesa National I.I. Mechnikov University, Department of Experimental Physics	
13.00–13.15	***Kateryna Diedkova*** *Institute of Atomic Physics and Spectroscopy, University of Latvia, Sumy State University*	**Polycaprolactone-MXene nanocomposites for cardiac tissue engineering**
13.15–13.30	***Ilya YANKO*** *Biomedical Research Center, Sumy State University*	**Antibacterial effectiveness of PCL-MXene electrospun membrane after plasma treatment**
13.30–13.45	***VARAVA, Yuliia*** *Biomedical Research Center, Sumy State University; Silesian University of Technology*	**Effect of silever nanoparticles on antibacterial properties of Ti13Nb13Zr alloy after plasma electrolytic oxidation**
13.45-14.00	**Noslēgums, diskusijas Conclusions, discussions**	