

**Scientific Programme  
of the 8th international conference  
Progress in Applied Surface, Interface,  
and Thin Film Science –  
Solar Renewable Energy News VIII  
(SURFINT-SREN VIII).  
November 20 – 22, 2023**



<b>Monday, 20 November 2023</b>			
<b>9:00 – 10:30</b>	<b>Registration of participants (it will continue during whole day )</b>		
<b>10:30 – 10:40</b>	<b>Opening</b>		
<b>Moderator:</b>	<i>Ms. Maria Pincikova, Bratislava, Slovakia</i>		
10:40 – 11:20	<b>IL1</b> <b>Prof. Marco Fanciulli</b>	Donors in ultrathin silicon-on-insulator device layers for classical and quantum computing	University of Milano Bicocca, Department of Materials Science, Italy
11:20 – 12:00	<b>IL2</b> <b>Assoc.Prof. Miroslav Mikolášek</b>	Electrical characterization techniques for states of health (SOH), state of safety (SOS) estimation and aging analysis of Li-ion batteries	Faculty of Electrical Engineering and Information Technology, Slovak University of Technology in Bratislava, Slovakia
<b>12:00 – 13:30</b>	<b>Lunch</b>		
13:30 – 14:10	<b>IL3</b> <b>Prof. Thomas Chassé</b>	Beyond Pentacene – Organic-Metal Interfaces based on Hexacene and Heptacene Molecular Layers	Institut für Physikalische und Theoretische Chemie, Universität Tübingen, Germany
14:10 – 14:50	<b>IL4</b> <b>Prof. Giovanni Ausanio</b>	Biocompatible hybrid graphenic thin coating on flexible substrates through Matrix-Assisted Pulsed Laser Evaporation (MAPLE)	"E. Pancini" Physics Department UNIVERSITY OF NAPLES "FEDERICO II", Italy
<b>14:50 – 15:10</b>	<b>Coffee Break</b>		
<b>Moderator:</b>	<i>Ms. Maria Pincikova, Bratislava, Slovakia</i>		
15:10 – 15:50	<b>1</b> <b>Dr. Emil Pinčík</b>	About optical properties of black porous silicon and corresponding solar cell applications	Institute of Physics SAS, Bratislava, Slovakia
<b>18:30</b>	<b>Welcome party</b>		

<b>Tuesday, 21 November 2023</b>			
<b>8:00 – 9:30</b>	<b>Breakfast</b>		
<b>Moderator:</b>	<i>Ms. Maria Pincikova, Bratislava, Slovakia</i>		
9:30 – 10:10	<b>IL5</b> <b>Prof. Masao Takahashi</b>	Application of electrochemically formed thin films to electronic devices	Tokyo University of Technology, Japan
<b>10:10 – 10:20</b>	<b>Coffee break</b>		
10:20 – 11:00	<b>IL6</b> <b>Dr. Aarne Kasikov</b>	Change of the Optical Properties of Thin Oxide Films During the Initial Stage of Atomic Layer Deposition	Institute of Physics, University of Tartu, Estonia
11:00 – 11:40	<b>IL7</b> <b>Dr. Štefan Chromik</b>	MoS <sub>2</sub> and WS <sub>2</sub> two-dimensional systems prepared by pulsed laser deposition and some obstacles at film preparation on different substrates	Institute of Electrical Engineering SAS, Bratislava, Slovakia
<b>11:40 – 13:00</b>	<b>Lunch</b>		
<b>Moderator:</b>	<i>Ms. Maria Pincikova, Bratislava, Slovakia</i>		
13:00 – 13:40	<b>IL8</b> <b>Prof. Loredana Parlato</b>	Ultra-thin superconducting microstrip for single photon detector.	"E. Pancini" Physics Department UNIVERSITY OF NAPLES "FEDERICO II", Italy
13:40 – 14:15	<b>2</b> <b>PhD. Student Zuzana Košelová</b>	Fabrication and Characterization of Thermally Oxidized Tungsten-Based Thin Films for Application in Cold Field Emission Sources	Institute of Scientific Instruments of the Czech Academy of Sciences, Czech Republic
<b>14:15 – 16:00</b>	<b>Coffee break + Poster session</b>		
<b>18:00 – 22:00</b>	<b>Visit of Ballet in Slovak National Theatre, Bratislava: FASHION BALLET '23</b>		
<b>18:00 – 19:00</b>	<b>Dinner</b>		

<b>POSTER SESSION</b>			
1	PhD. Student Martin Kemeny	Incremental capacity analysis (ICA) extracted from the galvanostatic intermittent titration technique (GITT) dataset for analysis of conventional Li-ion batteries	Faculty of Electrical Engineering and Information Technology, Slovak University of Technology in Bratislava, Slovakia
2	Assoc.Prof. Marián Palcut	High temperature oxidation resistance of multilayer nitride coatings prepared by physical vapor deposition	Faculty of Materials Science and Technology in Trnava, Slovak University of Technology in Bratislava, , Slovakia
3	PhD. Student Michal Bennár	Dichloromethane as a potential hole density enhancer in high-temperature superconductors.	Institute of Electrical Engineering SAS, Bratislava, Slovakia
4	PhD. Student Mohammad Sharif Shazileh	Effects of sulfurization temperature and substrate type on the optical properties of WS <sub>2</sub> thin film	Faculty of Electrical Engineering and Information Technology, Slovak University of Technology in Bratislava, Slovakia
5	PhD. Student Mohammad Sharif Shazileh	Nanostructuring of metal films on glass using laser ablation and their hydrogen responses	Faculty of Electrical Engineering and Information Technology, Slovak University of Technology in Bratislava, Slovakia
6	Assoc.Prof. Andrea Šagátová	Analysis of active area of GaAs sensor by micro-focused X-ray beam	Faculty of Electrical Engineering and Information Technology, Slovak University of Technology in Bratislava, Slovakia
7	Dr. Zakia Fekih	Filling the pores of porous silicon (p-s) by metallic alloys electrodeposited	Belhadj Bouchaib University Ain Temouchent, Algeria
8	Dr. Peter Ondrejka	Preparation of nickel sulfide layers for supercapacitors and electrochemical water splitting.	Faculty of Electrical Engineering and Information Technology, Slovak University of Technology in Bratislava, Slovakia
9	Dr. Souad OUIR	Luminescent properties of ZnO/CuO nanocomposites	Physics Department, Faculty of Sciences, University of Blida1 , Algeria
10	Dr. Pavol Vojtek Dr. Emil Pinčík	Investigation of changes of the photoluminescence signal of the porous p-type Si induced by the exciting light source	Faculty of Mathematics, Physics, and Informatics, Comenius University, Bratislava Institute of Physics SAS, Bratislava, Slovakia

<b>Wednesday, 22 November 2023</b>			
<b>8:00 – 9:30</b>	<b>Breakfast</b>		
<b>Moderator:</b>	<i>Ms. Maria Pincikova, Bratislava, Slovakia</i>		
9:30 – 10:10	<b>IL9</b> <b>Assoc.Prof. Stanislav Jurecka</b>	Microstructural, electrical, and optical properties of selected semiconductor systems for water splitting	Institute of Aurel Stodola, University of Žilina,, Slovakia
<b>10:10 – 10:30</b>	<b>Coffee break</b>		
10:30 – 11:00	<b>3</b> <b>Dr. Emil Pinčík</b>	Photoluminescence of high doped multicrystalline porous silicon	Institute of Physics SAS, Bratislava, Slovakia
<b>11:00 – 11:15</b>	<b>Conclusion – results of competition of works of young researchers</b>		
<b>11:15 – 13:00</b>	<b>Lunch</b>		
<b>13:00 – 16:00</b>	<b>Trip – Devin Castle</b>		