

CONFERENCE PROGRAM

**The 2nd Serbian Conference
on Materials Application and
Technology - SCOM**

October 18-20th, 2023

Belgrade

Wednesday, October 18th, 2023	
Vlatacom Institute – Conference hall	
09:00-13:00 Registration	
Session 1	
09:30-09:45	Opening ceremony
09:45-10:15	Vlatacom Institute presentation <i>Nemanja Deura - Penetration aircraft bomb BLU-109E material selection</i>
10:15-11:00	Tutorial lecture 1 <i>Andrzej Suchocki - High-pressures in physical sciences</i>
11:00-11:30	Coffee Break
Session 2	
11:30-12:00	Invited lecture 1 <i>Željka Antić - Luminescent thermometry methods based on the near-infrared emission of Mn³⁺-activated Ca₆Ba(PO₄)₆O phosphor</i>
12:00-12:15	<i>Michal Malček - Graphene-based materials and their hydrogen binding performance. A DFT study</i>
12:15-12:30	<i>Miriama Malček Šimunková - Electron paramagnetic resonance in the investigation of materials' activity: from transition metals complexes to photocatalysis</i>
12:30-12:45	<i>Zuzana Dyrčiková - Modified TiO₂ with Salicylic Acid Derivatives as ICT Complexes</i>
12:45-13:15	Coffee Break
Session 3	
13:15-13:30	<i>Valentina Nikšić - Modification of TiO₂ nanoparticles with Dihydroquercetin: characterization, cytotoxicity and antimicrobial ability</i>
13:30-13:45	<i>Miljana Dukić – Visible-Light-Responsive ZnO-Based ICT Complexes with Catecholate and Salicylate-Type Ligands: Synthesis, Characterization, and Application in Enhanced Hydrogen Production</i>
13:45-14:00	<i>Ljubica Đačanin Far - Novel Y₃NbO₇:x Dy³⁺ phosphor and its tunable emission</i>
14:00-14:15	<i>Zoran Ristić - From luminescent polycrystalline targets to epitaxial thin films by RHEED controlled pulse laser deposition</i>
14:15-16:00	Vlatacom Institute exhibition and welcome party

Thursday, October 19th, 2023	
Vlatacom Institute – Conference hall	
09:00-13:00 Registration	
Session 1	
09:30-10:15	Tutorial lecture 2 <i>Anatoli Popov - Point defects in binary oxides and halides: optical properties and some applications (online)</i>
10:15-11:00	Tutorial lecture 3 <i>Bruno Viana - Control of defects in optical materials and focus on applications of persistent phosphors (online)</i>

11:00-11:30	Coffee Break
Session 2	
11:30-12:00	Invited lecture 2 <i>Tamara Ivetić - Rare earth doped niobates for UC luminescence applications</i>
12:00-12:15	<i>Dorđe Trpkov – Eco-friendly, fluorescent, functionalized graphene quantum dots: comparative synthetic study and future prospects</i>
12:15-12:30	<i>Radovan Dojčilović - Tracking protein network dynamics: the case of the exocytosis</i>
12:30-12:45	<i>Radoš Raonić - Correlation between microstructure and electric properties of Li-Nb-Ti-O ceramics</i>
12:45-13:00	<i>Bojana Miličević - Eu³⁺-activated red and deep-red-emitting phosphor for plant growth LED application</i>
13:00-15:00	Lunch Break – Hotel Holiday Inn
Session 3	
15:00-15:30	Invited lecture 3 <i>Nikola Knežević - Mesoporous silica and organosilica nanoparticles for applications in cancer theranostics and protection of skin</i>
15:30-16:00	Invited lecture 4 <i>Ivana Cvijović Alagić - Laser-modified nanograined Ti-45Nb alloy's performance in bio-environment</i>
16:00-16:15	<i>Dharma Teja Teppala - Synthesis and high-temperature / high-pressure exposure of compositionally complex rock-salt-type transitional metal (carbo)nitrides</i>

Friday, October 20th, 2023	
Vlatacom Institute – Conference hall	
Session 4	
09:30-10:15	Tutorial lecture 4 <i>Sergey Borisov - Fundamentals of optical oxygen sensing (online)</i>
10:15-11:00	Tutorial lecture 5 <i>Benoit Fond - Temperature imaging using inorganic phosphors: Methods and Applications (online)</i>
11:00-11:30	Coffee Break
11:30-11:45	<i>Marija Milivojević - Surface modification of titanium scaffold for restoration of bone defects</i>
11:45-12:00	<i>Katarina Milenković - Synthesis and luminescence properties of core-shell CsY₂F₇:Eu nanoparticles</i>
12:00-12:30	Invited lecture 5 <i>Maxim Ivanov - Fabrication of highly-transparent ceramics from truly nano-scaled particles (online)</i>
12:30	Closing ceremony