

First Russian-German Virtual Conference on Interdisciplinary Natural Sciences

Final Program (December 07, 2020)

Thursday, 10.12.2020

Time (CET)	Name of Presenter	Institution	Title of Contribution
9:00 – 9:15	Eckart Rühl Alina Manshina	FU Berlin St. Petersburg State University	Opening
9:15-9:45	Alexei Khokhlov	Ulm University	Smart nanocomposites with tunable polymer matrix
9:45-10:15	Matthias Epple	Universität Duisburg-Essen	Synthesis and surface-functionalization of ultrasmall gold nanoparticles
10:15-10:30	Coffee Break		
10:30-11:00	Evgenia Korzhikova-Vlakh	Institute of Macromolecular Compounds RAS and St. Petersburg State University	Self-assembled nanoparticles based on bio-inspired polymers as delivery systems for various drugs
11:00-11:30	Anna Brichkina	Universität Marburg	Transcription of pericentromeric satellite DNA in lung cancer
11:30-11:45	Alexei Smirnov	St. Petersburg State University	Plasmon resonance-assisted nanolabels for use in the near infrared region of transparency of biological tissues
11:45-12:00	Natalia A. Danilkina	St. Petersburg State University	Heterocycloalkynes annulated with a heterocyclic core as new reagents for bioconjugation
12:00-12:15	Alexander Novikov	St. Petersburg State University	Computer modeling of non-covalent interactions in chemical systems promising for materials science, catalysis and medicine
12:15-12:30	Irina Shtangeeva	St. Petersburg State University	About significance and phytotoxicity of poorly studied trace elements
12:30-12:45	Mariia M. Efremova	St. Petersburg State University	Synthesis and fluorescent properties of 5-aryl-4-ethynyl-1H-1,2,3-triazoles
12:45-14:00	Lunch Break		
14:00-14:30	Roman A. Surmenev	Tomsk Polytechnic University	Different approaches for new materials development with tailored properties for biometical applications
14:30-14:45	Aleksei Murzin	St. Petersburg State University	Amplified spontaneous emission and random lasing in MAPbBr ₃ Halide perovskite single crystals
14:45-15:15	Lada Yashina	Moscow State University	Photoemission studies of topological insulators
15:15-15:30	Coffee Break		
15:30-17:00	Poster Session		

Friday, December 11, 2020

Time (CET)	Name of Presenter	Institution	Title of Contribution
9:00 – 9:30	Alexander L. Skubachevskii	RUDN University	Stationary solutions of Vlasov-Poisson system and plasma confinement in magnetic traps
9:30-10:00	Vladimir Shabaev	St. Petersburg State University	What is vacuum decay in a supercritical field and how to observe it
10:00-10:30	Uwe Iben	Robert Bosch GmbH	Taylor maps for dynamical systems - learning from data
10:30-10:45	Coffee Break		
10:45-11:15	Viktor Sivkov	Komi Scientific Center, Syktyvkar	NEXAFS and XPS studies of the carbonized bath sponge scaffold and nanostructured 3D copper-carbon catalyst
11:15-11:30	Anna Vasileva	St. Petersburg State University	Metal and metal-carbon NPs contained by laser-induced deposition on polyaniline coverings
11:30-11:45	Svetlana Ershova	St. Petersburg State University	Conformational and optical molecular properties of poly (hexyl methacrylate) and poly (stearyl methacrylate)
11:45-12:00	Sofya A. Efimova	ITMO University	Creating a nanocomposite based on encapsulated growth factor in ZIF-8 and titanium nanotubes
12:00-12:30	Andrey V. Bukhtiyarov	Boresov Institute, Novosibirsk	CO oxidation on the bimetallic Pd-Au/HOPG catalysts: NAP XPS and MS study
12:30-12:45	Maksim A. Panafidin	Boresov Institute, Novosibirsk	Model bimetallic Pd-Ag/HOPG and Pd-Cu/HOPG catalysts: CO and methanol oxidations
12:45-13:00	Ovanes Petrosian	St. Petersburg State University	Inverse Optimal Control with Continuous Updating for Steering Behavior Model
13:00-14:00	Lunch Break		
14:00-14:15	Alexander Straumal	Institute for Solid State Physics, RAS, Chernogolovka	Influence of different grain boundary wetting states on the formation of microstructure after high pressure torsion in Mg-cast alloy EZ33A
14:15-14:30	Ivan Alekseev	Otto-Schmidt-Laboratory, St. Petersburg	Environmental pollutants in various Antarctic regions: variability across landscapes and behavior
14:30-14:45	Olga Shuvalova	RUDN, Moscow	Typology of the countries of Central and Eastern Europe including the CIS: features of the use of alternative energy
14:45-15:00	Mariia Bilogub	Universität Potsdam	Effects of Microplastics on Different Root Traits of Dry Grassland Species
15:00-15:15	Eva-Maria Peiffer	Universität Hamburg	Russian-German Higher Education Projects on Permafrost Science: Master programmes between Universities Saint Petersburg and Hamburg
15:15-15:30	Eckart Rühl Alina Manshina	FU Berlin St. Petersburg State University	Summary and Conclusions