

**The 8th Asian Symposium on Advanced Materials (ASAM-8)**  
**Novosibirsk, Russia | July 3 – 7, 2023**  
**LIST OF ACCEPTED PRESENTATIONS (REVIEW RESULTS)**

No	Title	Reporter	Organization	City	Country	Form of participation	Section	Review
<b>I. Synthesis and Structure of Advanced Materials</b>								
OP-IA-01	Spark plasma sintering of Nb/Ti3Al(Si)C2 nanolaminated composites	Abdulmenova Anastasia	National Research Tomsk Polytechnic University	Tomsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-16	Study on carbon erosion of Ni-Cu bulk alloys to produce an effective catalyst of CNF synthesis	Afonnikova Sofya	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IC-11	Influence of BaO addition on the thermal stability of Pd-Rh/Al2O3-ZrO2 three-way catalysts: lab-scale and pilot-scale studies	Alikin Evgeny	Ecoalliance LLC	Novouralsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-14	Synthesis of multicomponent NiCoFeCoCu alloys and their study in catalytic pyrolysis of C2 hydrocarbons	Bauman Yury	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-27	Functional materials for protonic ceramic fuel cells powered by ammonia	Borisov Vadim	Center of New Chemical Technologies BIC	Omsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-13	Carbon quantum dots produced through citric acid pyrolysis	Borodina Anastasia	Institute of Macromolecular Compounds RAS	Saint Petersburg	Russia	Online	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-21	Detection Of Carbon Dioxide With Pure And Boron Functionalized Carbon Nanotubes	Boroznin Sergey	Volgograd State University	Volgograd	Russia	Online	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-32	Steam-Assisted Crystallized Fe-Silicalite-1 Nanocrystals As Heterogeneous Fenton Catalyst.	Bragina Alina	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-02	Ammonia evaporation method for synthesis of nickel-supported catalysts with high Ni dispersion	Bukhtiyarova Marina	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-17	Dynamic- and Mechanical-Damping in Liquid Crystal Elastomers with Slidable Polyrotaxane Network	Choi Subi	Pusan National University	Busan	Republic of Korea	Online	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IC-05	Effect of magnesium doping on the interaction of AuIII precursor complexes and Au0 nanoparticles with alumina surface in Au/Mg2+/g-Al2O3 catalysts	Danilova Irina	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IC-01	Development of a Model for Predicting Efficient Catalysts for the Process of Urea Electrooxidation	Dmitrieva Anastasia	ITMO University	Saint Petersburg	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-28	Immobilization of Co(II) ions in ceramic matrices based on (Ca, Mg)-Zr phosphates	Dzikaya Anastasiya	Institute of General and Inorganic Chemistry of National Academy of Sciences of Belarus	Minsk	Belarus	Online	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-26	Heterostructured Materials for Photochemical Solar Energy Conversion: Basic Approaches	Emeline Alexei	Saint Petersburg State University	Saint Petersburg	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-03	Modifying Effect of Carbon Nanofibers on Polyethylene Depending on their Synthesis Condition	Fedorov Andrey	Institute of oil and gas problems SB RAS	Yakutsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-06	Comparative study of group properties of three varieties of coal pitches	Gavriljuk Oksana	Federal Research Center of Coal and Coal-Chemistry SB RAS	Kemerovo	Russia	Online	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-12	Soft modification of La-based perovskite crystalline structure and its influence on catalytic activity in methane oxidation reaction	Gerasimov Evgeny	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-03	Organic cations improve the properties of MoS2-based hybrid materials by enhancing of 1T phase stability	Goloveshkin Alexander	A.N. Nesmeyanov Institute of Organoelement Compounds RAS	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-07	Effects of Ag Doping on the Structure and Electromagnetic Properties of Ag/MWCNT-PMMA Composite	Golubtsov Georgii	Novosibirsk State University	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-29	Growth of polymolybdate scintillating crystals by the low-thermal-gradient Czochralski technique	Grigorieva Veronika	Nikolaev Institute of Inorganic Chemistry of SB RAS	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-19	Machine learning driven method for simulating of mechanical properties of single- and polycrystalline system	Jalolov Faridun	Skolkovo Institute of Science and Technology	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-30	Testing of new solvents for CaMO4 (M=Mo,W) crystal growth	Khramtsova Daria	V.S. Sobolev Institute of Geology and Mineralogy of SB RAS	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IC-08	Composite Catalysts Based on the CaO-Fe2O3 System for the Oxidative Conversion of Hydrocarbons	Kirik Nadezhda	Institute of Chemistry and Chemical Technology SB RAS	Krasnoyarsk	Russia	Online	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-20	Ionic mobility in the composite (Ionic Liquids)@MOF electrolytes probed by solid state NMR	Kolokolov Daniil	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-36	On the Synthesis of Molybdenum-Carbide Powder by the Reaction of Molybdenum with Hexane	KolosoV Valery	Tananaev Institute of Chemistry	Apatity	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL

OP-IA-14	Spin-coating of thin graphene oxide films from multicomponent dispersions	Komarov Ivan	JSC Research Institute «Graphite»	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-31	Crystallization of cristobalite in sodium borosilicate glass in the presence of chromium	Konon Marina	Institute of Silicate Chemistry RAS	Saint Petersburg	Russia	Online	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-04	Development and Characterization of Carbon-Silica Composite Materials and Their Study for Preparing Heterogeneous Catalysts for the Enzymatic Low-Temperature Synthesis of Esters	Kovalenko Galina	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-08	Hybrid Graphite/Nanodiamond Carbon Nanoparticles As A Model Filler For Polymer Composite Materials	Kurkin Tikhon	Enikolopov Institute of Synthetic Polymeric Materials RAS	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-19	Catalytic oxygen reduction reaction activity of lattice carbons of metal doped nitrogen codoped carbons. Theoretical analysis	Kuzmin Anton	Irkutsk Institute of Chemistry of SB RAS	Irkutsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-04	Genesis and Structural Properties of (Ce <sub>1-x</sub> Al <sub>x</sub> ) <sub>0.8</sub> Ni <sub>0.2</sub> O <sub>y</sub> Materials For Hydrogen Production Through Methane Reforming Processes	Kuznetsova Irina	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-05	Size-dependence of the properties of metal nanoparticles: A computational density functional study	Laletina Svetlana	Institute of Chemistry and Chemical Technology SB RAS	Krasnoyarsk	Russia	Online	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IC-02	Copper Complexes of Sodium Pectate as Oxygen Reduction Catalysts	Lebedeva Elgina	Arbuzov Institute of Organic and Physical Chemistry, FRC Kazan Scientific Center RAS	Kazan	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-37	Generation of 2D Micro Patterns Using Laser-induced Shockwave	Lee Jaejun	Pusan National University	Busan	Republic of Korea	Online	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-15	Molecular Engineering of Exchangeable Liquid Crystal Elastomers toward Body-Temperature Shape-Morphing Materials	Lee Jin-Hyeong	Pusan National University	Busan	Republic of Korea	Online	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-01	In-situ Studies of Fractal Microstructure in Nanocarbon-Polymer Composites	Levin Vadim	Emanuel Institute of Biochemical Physics RAS	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-20	Heterogeneous catalysts based on POM and N-doped multiwalled carbon nanotubes impregnated with Zn <sup>2+</sup> ions for synthesis of acid-sensitive epoxides	Lopatkin Vladimir	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-25	The halide-modified materials based on g-C <sub>3</sub> N <sub>4</sub> for photocatalytic hydrogen production and photocurrent generation under visible light	Markovskaya Dina	Boreskov Institute of Catalysis	Novosibirsk	Russia	Online	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-13	Effect of pore size on the activity of an immobilized enzyme in mesoporous magnetic silica	Matveeva Valentina	Tver State Technical University	Tver	Russia	Online	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-18	Advances in the analysis of the materials porous structure by means of the machine learning methods	Mel'gunov Maksim	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-22	Oxidized Carbon Nanomaterials as Efficient Adsorbents for Nd <sup>3+</sup> Removal	Navrotskaya Anastasiya	ITMO University	Saint Petersburg	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IC-07	One-Step Synthesis of Aromatic Polymeric Supports for Palladium-Containing Catalytic Systems	Nikoshvili Linda	Tver State Technical University	Tver	Russia	Online	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-33	The Fluorite-like LiLn <sub>4</sub> Mo <sub>3</sub> O <sub>15</sub> (Ln = La-Dy) Ceramics: Synthesis And Properties	Orlova Ekaterina	Lomonosov Moscow State University	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IC-12	Acid Impregnation of Raw Kaolin for Synthesis of Automotive Exhaust Catalyst	Ouarab Nouredine	Semiconductor Technology Research Center for Energetic (CRTSE)	Algiers	Algeria	Online	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-06	Synthesis of magnetically recovered Co and Co@Pt catalysts by galvanic replacement method for hydrolysis of NaBH <sub>4</sub>	Ozerova Anna	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-07	Structural Features and Reduction – Induced Structural Evolution of Pt/Ce <sub>0.75</sub> Zr <sub>0.25</sub> O <sub>2</sub> Catalyst for Water Gas Shift Reaction	Pakharukova Vera	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-34	The mechanisms of microstructure formation in Ti-6Al-4V titanium alloy produced by wire-feed electron beam additive manufacturing	Panin Alexey	Institute of Strength Physics and Materials Science SB RAS	Tomsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-08	Primary alcohols as hydrogen donors in Ni-catalyzed transfer hydrogenation	Philippov Alexey	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-05	Investigation of the structure and morphology of coal pitches	Popova Anna	Federal Research Center of Coal and Coal-Chemistry SB RAS	Kemerovo	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IC-06	In situ synthesized Cu-ZnO catalysts for the catalytic hydrogenolysis of glycerol	Porukova Iuliana	A.V. Topchiev Institute of Petrochemical Synthesis RAS	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-23	Multiple Hydrogen Bonded Polymer Binders for High-Capacity Si anode	Preman Anjali Nagapadi	Pusan National University	Busan	Republic of Korea	Online	I. Synthesis and Structure of Advanced Materials	ORAL

OP-IA-35	A Novel Route to Produce Titanium Matrix Composites Strengthened With Titanium Carbide Particles	Pribytkov Gennady	Institute of Strength Physics and Materials Science SB RAS	Tomsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-09	Ways of dark TiO <sub>2</sub> modification by copper nanoparticles to increase photocatalytic activity in the hydrogen generation reaction	Reutova Olesia	Tomsk State University	Tomsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-17	Ni-based dispersed alloys: synthesis, structure and catalytic properties in Cl-containing hydrocarbons decomposition process	Rudneva Yuliya	Nikolaev Institute of Inorganic Chemistry of SB RAS	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-10	Comparison of the kinetics of chemical reactions during the detonation of a pure explosive and one modified with nanotubes	Satonkina Nataliya	Lavrentyev Institute of Hydrodynamics of SB RAS	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-22	Impact of microgel's structure on its functional group's mobility and availability	Sergeev Artem	Semenov Federal Research Center for Chemical Physics RAS	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-24	Electron Diffusion Induced Valley Hall Effect And Nonlinear Galvanodiffusive Transport In Hexagonal 2D Dirac Monolayer Materials	Snegirev Andrey	A.V. Rzhavov Institute of Semiconductor Physics of SB RAS	Novosibirsk	Russia	Online	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IC-03	Design of Ag/Graphene Oxide Catalysts Modified with Transition Metal Oxides for Reduction Reactions	Taratayko Aleksey	Tomsk State University	Tomsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IC-10	Nanostructured catalysts based upon porous ceramometal composites	Tikhov Serguei	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-11	Disaggregation of Nanodiamonds prepared by a shock wave compression method	Tudupova Biligma	Ioffe Physical Technical Institute RAS	Saint Petersburg	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-15	Functionalized carbon dots	Ushakova Elena	ITMO University	Saint Petersburg	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-09	Fluorinated Carbon Nanotubes Incorporated into the Active Layer of Organic Photovoltaic Cells	Uvarov Mikhail	Voevodsky Institute of Chemical Kinetics and Combustion SB RAS	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IC-09	Porous alloys based on Fe and Co as catalysts for the decomposition of hydrocarbons	Varygin Andrey	Nikolaev Institute of Inorganic Chemistry of SB RAS	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-21	Sol-gel Synthesis of Nanostructured Ni-Ce-Mg-O Ternary Systems	Veselov Grigory	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-18	Bimetallic Catalysts for Oxygen Electroreduction Based on Carbon Nanotubes and Cobalt, Copper, and Nickel Phthalocyanines	Vinogradov Kirill	Samara National Research University	Samara	Russia	Online	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-12	First Observation of Superheating Phenomenon for Mayenite in Core-Shell Structures C <sub>12</sub> A <sub>7</sub> @C by an in situ XRD technique	Volodin Alexander	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-16	Synthesis and characterization of PVDF-CFO composite films	Vorontsov Pavel	Immanuel Kant Baltic Federal University	Kaliningrad	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IC-04	Design of Efficient Supported Bimetallic Palladium Catalysts for Selective Hydrogenation of Acetylene	Yurpalova Daria	Center of New Chemical Technologies BIC	Omsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-10	Specifics of Particles Morphology and Structural-Phase Properties of Nanostructured FePt and CoPt	Zakharov Yuriy	Federal Research Center of Coal and Coal-Chemistry SB RAS	Kemerovo	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IB-02	Investigation of the change in the structure of MWCNT-Si composites during heat treatment	Zavorin Alexey	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	ORAL
OP-IA-11	Synthesis of nanoparticles and their modification in solutions of anionic surfactants for obtaining stable dispersions	Zelentsov Dmitry	Surgut State University	Surgut	Russia	Online	I. Synthesis and Structure of Advanced Materials	ORAL
PP-I-02	Synthesis and study of the properties of catalytic systems based on nanocluster polyoxometalates	Akimov Albert	Institute of Petroleum Chemistry SB RAS	Tomsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-05	NIR emitting core/shell PbSe/PbS nanoplates	Babaev Anton	ITMO University	Saint Petersburg	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-08	Study of Au-induced crystallization kinetics of a SiO <sub>x</sub> thin films	Baranov Evgeniy	Kutateladze Institute of Thermophysics of SB RAS	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-11	Experimental study of organic and inorganic compound adsorption on biochar samples	Borodaevskiy Maxim	Boreskov Institute of Catalysis	Novosibirsk	Russia	Online	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-12	Study of the sensory interaction of a modified bcarbon BC nanotube with a carbon dioxide molecule	Boroznina Natalia	Volgograd State University	Volgograd	Russia	Online	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-13	Influence of support composition on the HDS/HYD selectivity of Ni-Zn sorbents in reactive desulfurization of FCC gasoline	Botin Andrei	Gubkin Russian State University of oil and gas	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER

PP-I-16	Solvent-free solid-state combustion synthesis of nickel nanoparticles for CO <sub>2</sub> methanation	Dmitruk Kirill	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-20	Replacement of Al <sub>2</sub> O <sub>3</sub> by Y <sub>2</sub> O <sub>3</sub> in aluminosilicate glass sealants: Effect on properties and compatibility with solid oxide fuel cell components	Dubovtsev Dmitry	Vyatka State University	Kirov	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-33	Composite materials based on Ni-Cu-PVA systems as catalysts for production of natural gas synthetic analog	Ivantsov Mikhail	A.V. Topchiev Institute of Petrochemical Synthesis RAS	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-34	Features Of C <sub>12</sub> A <sub>7</sub> Formation From Amorphous Precursor Obtained By Laser Evaporation	Kapishnikov Aleksandr	Novosibirsk State University	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-35	Structural Analysis of Ru/Ce <sub>1-x</sub> Zr <sub>x</sub> O <sub>2</sub> catalysts for the Carbon Dioxide Methanation	Kharchenko Nadezhda	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-36	NH <sub>2</sub> -modified UiO-66 as support for bimetallic PdCu and PdAu catalysts for 5-hydroxymethylfurfural reduction	Kharlamova Tamara	Tomsk State University	Tomsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-38	Contact angles between crude oil and brine on minerals in reservoir conditions studied with molecular dynamics simulations.	Khovental Peter	Skolkovo Institute of Science and Technology	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-40	Effect of Micro-Arc Oxidation Voltage and Duration on the Morphology, Phase Structure, Chemical Composition of Calcium Phosphate Coatings	Komarova Ekaterina	Institute of Strength Physics and Materials Science SB RAS	Tomsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-43	Pathways to Control the Activity and Selectivity of UiO-66-Based Catalysts in Cascade Conversion of Polyols	Kotov Andrey	Tomsk State University	Tomsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-45	The study of aqueous redox-active polymer microgels	Kozhunova Elena	Lomonosov Moscow State University	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-50	Formation of Nanochannels by heavy ions in Graphene Oxide reinforced Carboxymethylcellulose membranes for Proton Exchange Membrane Fuel Cells applications	Kurbanova Bayan	International Science Complex "Astana"	Astana	Kazakhstan	Online	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-54	Effect of Annealing on the Characteristics of Polymer Nanocomposites	Lebedev Oleg	Enikolopov Institute of Synthetic Polymeric Materials RAS	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-62	Effect of the modifying ruthenium additive on the structure and activity of iron-containing catalysts	Markova Mariia	Tver State Technical University	Tver	Russia	Online	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-63	Novel polyethylene composite materials, obtained via in-situ ethylene polymerization over the titanium-magnesium catalyst supported on nano-oxides and carbon nano-materials	Matsko Mikhail	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-65	Laser synthesis and study of the optical properties of ZrO <sub>2</sub> :Eu <sup>3+</sup> depending on the particle size	Nashvochnikov Aleksandr	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-66	Tin-modified Zr-UiO-66 metal-organic framework as a catalyst for cascade conversion of dihydroxyacetone to lactic acid	Nikulaichev Semyon	Tomsk State University	Tomsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-68	Microhardness Evolution of Laser-Deposited Equiatomic FeNiCr Coatings In-Situ Alloyed with B <sub>4</sub> C	Okulov Artem	M.N. Mikheev Institute of Metal Physics UB RAS	Ekaterinburg	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-71	Coal-firing waste to nanocomposites for 3D printing	Petrovavlovskaya Viktoria	Tver State Technical University	Tver	Russia	Online	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-72	Effect of bismuth ferrite concentration on magnetic and structural properties of PVDF-based composites	Petrukhin Denis	Immanuel Kant Baltic Federal University	Kaliningrad	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-78	The Effect Of Partial Lead Substitution On The Stability Of Hybrid Perovskites Under Powerful Electron Fluxes	Rasmetyeva Alexandra	Ural Federal University	Ekaterinburg	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-81	Radiation Thermal Sintering of Oxide and Composite Materials for Hydrogen Energy	Sadykov Vladislav	Boreskov Institute of Catalysis	Novosibirsk	Russia	Online	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-82	Development of a thermoplastic ceramic feedstock for FGF 3D-printing	Sagun Anton	Institute of Strength Physics and Materials Science SB RAS	Tomsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-84	Influence of the Solvent on the Dynamics of Excited Electrons in Plasmonic Nanoparticles of Silver	Seliverstova Evgeniya	Buketov Karaganda University	Karaganda	Kazakhstan	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-85	Triple alloys of the Pt-Mo-W system as the thermal decomposition products of complex salts	Serebrennikova Polina	Novosibirsk State University	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-42	Nickel-tin alloy catalysts for liquid organic hydrogen carrier dehydrogenation	Stepanenko Sergei	Boreskov Institute of Catalysis	Novosibirsk	Russia	Online	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-95	The use of ash and slag waste as components of building materials	Sulman Mikhail	Tver State Technical University	Tver	Russia	Online	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER

PP-I-96	Thermoelectric properties and valence band electronic structure of $\text{Ln}_x\text{Mn}_{1-x}\text{S}$ solid solutions	Syrokvashin Mikhail	Nikolaev Institute of Inorganic Chemistry of SB RAS	Novosibirsk	Russia	Online	I. Synthesis and Structure of Advanced Materials	FLASH-POSTER
PP-I-01	PEGylated magnetic nanoparticles for water purification from organic dyes	Aga-Tagiyeva Sayara	Immanuel Kant Baltic Federal University	Kaliningrad	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-03	Study of the physico-chemical properties of composite solid electrolytes $\text{CsNO}_2$ -nanodiamonds	Alekseev Dmitriy	Institute of Solid State Chemistry and Mechanochemistry SB RAS	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-108	Atomically Smooth Nanoscale $\text{SiO}_2+\text{TiO}_2$ Film Deposition By Magnetron Sputtering	Andreev A.V., Kransnoborodko S.Yu.	"Scientific and Technological Center of Unique Instrumentation" of the RAS	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-04	Room-temperature phosphorescence of nanocomposites based on carbon dots and polyvinyl alcohol	Arefina Irina	ITMO University	Saint Petersburg	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-06	Mechanism of $\text{Ln}_2\text{MoO}_6$ ( $\text{Ln} = \text{La}, \text{Nd}, \text{Sm}$ ) Phase Formation from a Mechanically Activated Oxide Mixture	Baldin Egor	Semenov Federal Research Center for Chemical Physics RAS	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-07	Synthesis of Hexagonal Nanophases in the $\text{La}_2\text{O}_3 - \text{MO}_3$ ( $\text{M} = \text{Mo}, \text{W}$ ) Systems	Baldin Egor	Semenov Federal Research Center for Chemical Physics RAS	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-09	Thermal annealing of Au/ $\text{Al}_2\text{O}_3$ /a-Ge thin film structure	Baranov Evgeniy	Kutateladze Institute of Thermophysics of SB RAS	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-10	Modeling of Interparticle Forces Modified with Mobile Surfactant Chains	Beloborodov Dmitry	Skolkovo Institute of Science and Technology	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-14	Development of a method for the synthesis of water-soluble nanocomposites with carbon nanoparticles in a poly-N-vinylpyrrolidone matrix	Chepenkov Dmitriy	Irkutsk Institute of Chemistry of SB RAS	Irkutsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-15	Application of amphiphilic carbon dots for improvement of light harvesting in optoelectronic devices	Cherevkin Sergei	ITMO University	Saint Petersburg	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-17	Cu-promoted Ni-LaCeOx/SBA-15 catalysts for dry reforming of methane and ethanol steam reforming	Dorofeeva Nataliya	Tomsk State University	Tomsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-18	Effect of Boron Doping on Sensing Properties of CNTs Functionalized with Nitro Group	Dryuchkov Evgeniy	Volgograd State University	Volgograd	Russia	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-19	Unsaturated polyketones — a new type of functionalized rubbers	Dubkov Konstantin	Boreskov Institute of Catalysis	Novosibirsk	Russia	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-21	The active oxygen intermediates appearing from UV-irradiation of oxygen-rich $\text{TiO}_2$ photocatalyst	Ershov Kirill	Voevodsky Institute of Chemical Kinetics and Combustion SB RAS	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-22	Pt modification of dark $\text{TiO}_2$ prepared by pulsed laser ablation: the effect of precursor nature and preparation method on photocatalytic properties	Fakhrutdinova Elena	Tomsk State University	Tomsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-23	Solvent-free synthesis of birch wood xylan sulfates	Garyntseva Natalya	Institute of Chemistry and Chemical Technology SB RAS	Krasnoyarsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-24	The synthesis and investigation of carbon-coated calcium aluminate aerogel	Gerus Yury	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-25	Aspects of solid-state processing of UHMWPE-based electrically conductive nanocomposites	Golubev Evgeny	Enikolopov Institute of Synthetic Polymeric Materials RAS	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-26	Synthesis of novel arylbitetrazole-based energetic materials	Gorbunov Yaroslav	N.D. Zelinsky Institute of Organic Chemistry RAS	Moscow	Russia	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-27	Synthesis conditions and real structure of $\text{Sr}_{n+1}\text{Ti}_n\text{O}_{3n+1}$ oxides	Gorkusha Aleksandr	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-28	$\text{CeO}_2\text{-ZrO}_2\text{-MnO}_x$ composites for oxidative purification of exhaust gas	Grabchenko Maria	Tomsk State University	Tomsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-29	Selective separation of chlorobenzenes by halogen bonding in MOF deposited on upcycled PET	Gulyaev Roman	National Research Tomsk Polytechnic University	Tomsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-30	Plasmon-enhanced luminescence of S,N-doped carbon dots	Ibrayev Niyazbek	Buketov Karaganda University	Karaganda	Kazakhstan	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-31	Acetylene hydrogenation over Pd/MgO nanocrystalline system: Effect of the synthesis route on catalytic performance	Ilyina Ekaterina	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-32	Influence of preparation conditions on activity of bulk $\text{Co}_3\text{O}_4$ - based catalysts in the $\text{N}_2\text{O}$ decomposition	Ivanova Yuliya	Boreskov Institute of Catalysis	Novosibirsk	Russia	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-39	Design of composite with enhanced photothermal and conductive properties based on recycled PET and $\text{UiO-66}$	Kogolev Dmitry	National Research Tomsk Polytechnic University	Tomsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER

PP-I-41	Electrochemical and mechanical properties of the composite "PLGA/CaP/Ti" scaffolds for targeted drug delivery	Komarova Ekaterina	Institute of Strength Physics and Materials Science SB RAS	Tomsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-44	Design of High-Performance Supported Bimetallic Catalysts for Hydrogen Production	Kovalenko Elizaveta	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-46	Development of a strategy for the synthesis of [2,2]-paracyclophanes, precursors of poly-paraxylene coatings, using high-performance catalysts	Kruglyakova Olga	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-47	Computational and Experimental Investigation Of 3D-printed Polylactide Laminated Composites' Mechanical Properties	Krupnin Arthur	NRC Kurchatov Institute	Moscow	Russia	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-48	Composite CO Hydrogenation Catalysts Based on Lignin and Metal Salts	Krysanova Kristina	A.V. Topchiev Institute of Petrochemical Synthesis RAS	Moscow	Russia	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-49	Adsorption and electrooxidation of dimethyl ether on Pt/MOx-C electrocatalysts	Kubanova Marina	Platov South-Russian State Polytechnic University (NPI)	Novocherkassk	Russia	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-51	Selective Oxidation of Glycerol to Lactic Acid on hybrid Pd-Bi@UiO-66-HSO <sub>3</sub> Catalyst	Kurmanova Maria	Tomsk State University	Tomsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-52	Laser-assisted carbonization of surface-grown Ni-BDC towards waste-based smart materials	Kurtsevich Ekaterina	National Research Tomsk Polytechnic University	Tomsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-53	Synthesis, growth and luminescence properties of rare earth borates K <sub>3</sub> Y(BO <sub>3</sub> ) <sub>2</sub> ·R <sub>3</sub> <sup>+</sup> (R=Ce, Tb, Er)	Kuznetsov Artem	V.S. Sobolev Institute of Geology and Mineralogy of SB RAS	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-55	Synthesis and Characterization of Stretchable Polyurethane through Polyrotaxane-based Sliding Effect	Lee Chaijun	Pusan National University	Busan	Republic of Korea	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-56	Synthesis of Polyrotaxane based on Mono-6-Tosyl-β-Cyclodextrin	Lee Chaijun	Pusan National University	Busan	Republic of Korea	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-57	Synthesis and Characterization of Flexible and Strong Polyurethane using PPG-βCD-Polyrotaxane as a Chain Extender	Lee Jihyun	Pusan National University	Busan	Republic of Korea	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-58	Synthesis and Characterization of Highly Stretchable Polyurethane based on Polyrotaxane composed of Movable Non-Covalent Bonds	Lee Jihyun	Pusan National University	Busan	Republic of Korea	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-59	SILD synthesis of Mn <sub>3</sub> [Fe(CN) <sub>6</sub> ] <sub>2</sub> ·nH <sub>2</sub> O nanosheets as novel 2D analogue of Prussian Blue for high-performance metal-ion batteries	Lobinsky Artem	Ioffe Physical Technical Institute RAS	Saint Petersburg	Russia	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-60	Mechanochemical Synthesis of Magnesium Substituted Hydroxyapatite	Makarova Svetlana	Institute of Solid State Chemistry and Mechanochemistry SB RAS	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-61	Microdispersed Ni <sub>1-x</sub> Sn <sub>x</sub> Alloys as Catalysts for Synthesis of Carbon Nanofibers	Maksimova Tatiana	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-64	Finely Controlled Nanocatalysts for Coal Mine Methane Conversion	Matus Ekaterina	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-67	Tailored Mechanical Property of Liquid Crystal Elastomer Fiber Actuator	Oh Seungjoon	Pusan National University	Busan	Republic of Korea	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-69	Graphitization as a way to stabilize textural characteristics of alumina under hydrothermal conditions	Parfenov Mikhail	Novosibirsk State University	Novosibirsk	Russia	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-70	Ln/Fe-doped SrTiO <sub>4</sub> Layered Perovskites: Effect of Synthesis Method and Composition on Physical-Chemical and Catalytic Properties in Oxidative Coupling of Methane	Pavlova Svetlana	Boreskov Institute of Catalysis	Novosibirsk	Russia	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-73	Effect of Ruthenium Addition to Palladium-Rhodium Nanoalloys on Their Catalytic Activity in CO Oxidation	Plyusnin Pavel	Nikolaev Institute of Inorganic Chemistry of SB RAS	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-74	Synthesis of Functionalized Carbon Nanomaterials from Organochlorine Compounds over Ni-Catalysts and Their Possible Application	Potylytsyna Arina	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-75	Exothermic Reactions in Mechanoactivated Ti-Fe Powder Mixes	Pribytkov Gennady	Institute of Strength Physics and Materials Science SB RAS	Tomsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-76	Synthesis of Nanoporous Materials by Magnesium-Thermal Reduction of Oxide Compounds of Tantalum and Niobium	Prokhorova Tatiana	Tananaev Institute of Chemistry	Apatity	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-77	The effect of polyethylene with grafted maleic anhydride on the properties of secondary polypropylene with the inclusion of aluminosilicate microspheres	Psyanchin Artur	Ufa University of Science and Technology	Ufa	Russia	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-79	Advantages of Laser Electrodipersion for the Synthesis of CO Oxidation Catalysts with Low Loading of Precious Metals	Rostovshchikova Tatiana	Lomonosov Moscow State University	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER

PP-I-80	Magnetic Resonance and Magnetism of Carbonized Sodium Pectate Nickel Complex	Sabirova Aigul	Arbuzov Institute of Organic and Physical Chemistry, FRC Kazan Scientific Center RAS	Kazan	Russia	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-83	Synthesis of Porous Materials based on Poly(styrene-co-divinylbenzene) from High Internal Phase Emulsions	Sankova Natalya	Boreskov Institute of Catalysis	Novosibirsk	Russia	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-86	Atomistic perspective on the lithium self-diffusion and crystallite growth using machine learning interatomic potential	Sergeev Artem	Semenov Federal Research Center for Chemical Physics RAS	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-87	Synergistic Nanostructured Catalysts of CO Oxidation Based on Co/Ce and Cu/Ce Modified Zeolites ZSM-5	Shilina Marina	Lomonosov Moscow State University	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-88	Development of Ti3C2Tx+Fe3O4 nanocomposite materials for water remediation	Shilov Nikolai	Immanuel Kant Baltic Federal University	Kaliningrad	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-89	Ionic Conductivity, Dielectric Properties and Spectroscopic Characterization of "Stuffed" Tm <sub>2</sub> (Ti <sub>2</sub> -xTmx)O <sub>7-x/2</sub> (x = 0, 0.1, 0.18, 0.28, 0.74) Pyrochlores	Shlyakhtina Anna	Semenov Federal Research Center for Chemical Physics RAS	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-90	Synthesis and Characterisation of Alumina and Calcium Aluminate with Deposited Sulfates	Shuvarakova Ekaterina	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-91	Frost-resistant Polymeric Material Based on Unsaturated Polyketone and Chlorine-containing Epoxy Oligomers	Sidorov Oleg	FCDT "Soyuz"	Dzerzhinsky	Russia	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-92	Support Properties in Applied to the Formation of Sulfur Dioxide Oxidation Catalysts	Simentsova Irina	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-93	Thermocatalytic decomposition of methane on Ni/PVA composites promoted with MgO	Sotnikova Anastasia	A.V. Topchiev Institute of Petrochemical Synthesis RAS	Moscow	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-94	Gd-Doped Carbon Nanodots as a Promising Contrast Agent for MRI	Stepanidenko Evgeniia	ITMO University	Saint Petersburg	Russia	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-97	Synthesis and investigation of optical properties of chiral CsPb(Cl,Br) <sub>3</sub> perovskite nanocrystals	Timkina Yulia	ITMO University	Saint Petersburg	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-37	Design of ZrO <sub>2</sub> -supported bimetallic AuPd catalysts for 5-hydroxymethylfurfural oxidation	Timofeev Konstantin	Tomsk State University	Tomsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-98	Fabrication, Characterization and Biodegradability of Oil-in-Water Pickering Emulsions Stabilized by Cellulose Nanocrystals	Udoratina Elena	Institute of Chemistry Komi SC UB RAS	Syktvykar	Russia	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-99	Functional Polysilsesquioxanes Containing Imidazole/Triazole Side-Chain Groups	Usmanov Ruslan	Irkutsk Institute of Chemistry of SB RAS	Irkutsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-100	Light bullets in a disordered system of carbon nanotubes	Verevkina Kseniya	Volgograd State University	Volgograd	Russia	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-101	Highly dispersed Pd/MgO catalysts based on nanocrystalline MgO prepared via sol-gel method	Veselov Grigory	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-102	SiO <sub>2</sub> Aerogels Modified by Organic Chelating Groups.	Vlasenko Nikita	Institute Physiologically Active Compounds RAS	Chernogolovka	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-103	Local Structure of LiGe <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Glasses and Glass-Ceramics	Vlasov Maxim	Institute of High Temperature Electrochemistry UB RAS	Ekaterinburg	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-104	Preparation of silver nanocomposites by thermolysis of metal-containing monomers of unsaturated acids	Zarubina Anastasia	Southern Federal University	Rostov-on-Don	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-105	The effect of A-cation substitution on the stability of hybrid perovskites under powerful electron fluxes	Zhidkov Ivan	Ural Federal University	Ekaterinburg	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-106	Synthesis and Properties of Bicomponent Complex Systems Based on Organic Acid and Polyoxometalate Compound	Zhirov Nikita	Institute of Petroleum Chemistry SB RAS	Tomsk	Russia	Online	I. Synthesis and Structure of Advanced Materials	POSTER
PP-I-107	The structural-mechanical properties of the molding pastes and the granular magnesium aluminates depending on the preparation conditions	Zhuzhgov Aleksey	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	I. Synthesis and Structure of Advanced Materials	POSTER
<b>II. Biomaterials and Bionanocomposites</b>								
OP-II-14	Where Well-Known Drugs Meet New Perspectives: Single-Walled Carbon Nanotubes as a Drug Delivery System for Prednisolone and Doxorubicin for Anticancer Therapy	Chetyrkina Margarita	Skolkovo Institute of Science and Technology	Moscow	Russia	in-person	II. Biomaterials and Bionanocomposites	ORAL
OP-II-13	Conformers of L-Ascorbic acid in Molecular Structure of Vitamin C and Co-crystals with Nicotinic and Picolinic acids	Evtushenko Diana	Tomsk State University	Tomsk	Russia	in-person	II. Biomaterials and Bionanocomposites	ORAL
OP-II-02	Novel Electrochemical Studies of the Bioresorbable Magnesium Alloys: Corrosion Phenomena and Hybrid Coating Formation	Gnedkov Andrey	Institute of Chemistry FEB RAS	Vladivostok	Russia	Online	II. Biomaterials and Bionanocomposites	ORAL

OP-II-01	Development and research of composite corrosion-resistant and bioactive coatings with ZrO <sub>2</sub> particles	Kashin Alexander	Institute of Strength Physics and Materials Science SB RAS	Tomsk	Russia	in-person	II. Biomaterials and Bionanocomposites	ORAL
OP-II-09	Phthalocyanine-graphene complex for biomedical applications	Klimenko Inna	Emanuel Institute of Biochemical Physics RAS	Moscow	Russia	Online	II. Biomaterials and Bionanocomposites	ORAL
OP-II-15	Investigation of the RF Magnetron Sputter Deposited Mg- and Sr-Substituted HA Coatings on a Titanium-Niobium Alloy Produced by Additive Manufacturing	Kozadaeva Maria	National Research Tomsk Polytechnic University	Tomsk	Russia	in-person	II. Biomaterials and Bionanocomposites	ORAL
OP-II-06	Autocatalytic hydrogen peroxide production by bacteria as a new advantage of hybrid living materials	Lokteva Alina	ITMO University	Saint Petersburg	Russia	Online	II. Biomaterials and Bionanocomposites	ORAL
OP-II-03	Development of biomimetic organic-inorganic coatings for titanium implants	Parfenova Lyudmila	Institute of Petrochemistry and Catalysis RAS	Ufa	Russia	in-person	II. Biomaterials and Bionanocomposites	ORAL
OP-II-05	Functionalized Mesoporous Silicas Nanocarrier for Anticancer Chemotherapy	Park Sung Soo	Dong-Eui University	Busan	Republic of Korea	Online	II. Biomaterials and Bionanocomposites	ORAL
OP-II-12	Cellulose complex of Arctic brown algae as a basis for the production of new materials	Parshina Anastasia	Northern (Arctic) Federal University named after M.V. Lomonosov	Arkhangelsk	Russia	in-person	II. Biomaterials and Bionanocomposites	ORAL
OP-II-04	Antibacterial Calcium Phosphate Coatings Prepared by RF Magnetron Sputtering from Sintered Powders: Structure and Properties	Prosolov Konstantin	Institute of Strength Physics and Materials Science SB RAS	Tomsk	Russia	in-person	II. Biomaterials and Bionanocomposites	ORAL
OP-II-11	Immobilization of cellulase on nanostructured supports for processing biomass waste	Sulman Aleksandrina	Tver State Technical University	Tver	Russia	Online	II. Biomaterials and Bionanocomposites	ORAL
OP-II-10	Supports for enzyme immobilization on the basis of Chitosan and magnetic nanoparticles	Tikhonov Boris	Tver State Technical University	Tver	Russia	Online	II. Biomaterials and Bionanocomposites	ORAL
OP-II-08	Modified porous glasses for medical applications	Tsyganova Tatyana	Institute of Silicate Chemistry RAS	Saint Petersburg	Russia	Online	II. Biomaterials and Bionanocomposites	ORAL
OP-II-07	Development of biomedical fibrous materials based on PHB and Hemin	Tyubaeva Polina	Emanuel Institute of Biochemical Physics RAS	Moscow	Russia	Online	II. Biomaterials and Bionanocomposites	ORAL
PP-II-01	Laser processing for biodegradable composites based on reduced graphene oxide and polymer	Abyzova Elena	National Research Tomsk Polytechnic University	Tomsk	Russia	in-person	II. Biomaterials and Bionanocomposites	FLASH-POSTER
PP-II-02	Design And Structural Self-Organization Of Water-Soluble Nanobiocomposites Of Ferrite And Bismuth Oxide With A Polysaccharide Matrix	Aleksandrova Galina	Irkutsk Institute of Chemistry of SB RAS	Irkutsk	Russia	in-person	II. Biomaterials and Bionanocomposites	FLASH-POSTER
PP-II-03	Synthesis and Characterization of L-lysine Polyurethane (LPU) Nanoparticles for Drug Delivery System	Choi Soojeong	Pusan National University	Busan	Republic of Korea	Online	II. Biomaterials and Bionanocomposites	FLASH-POSTER
PP-II-04	Synthesis and Characterization of L-threonine Polyurethane (LTHU) Nanoparticles for Drug Delivery System	Choi Soojeong	Pusan National University	Busan	Republic of Korea	Online	II. Biomaterials and Bionanocomposites	FLASH-POSTER
PP-II-05	Comparison of Mechanical Properties of Modern Polymer Composites Used for Bone Tissue Regeneration	Gerasimova Daria	Immanuel Kant Baltic Federal University	Kaliningrad	Russia	Online	II. Biomaterials and Bionanocomposites	FLASH-POSTER
PP-II-06	The role of amino acids in the formation of modifications of calcium carbonate obtained from bile solution	Golovanova Olga	Dostoevsky Omsk State University	Omsk	Russia	in-person	II. Biomaterials and Bionanocomposites	FLASH-POSTER
PP-II-07	Fabrication and Properties of 3D Printable Dental Composite Containing Catechol Polymer	Jeon Chaeyoung	Pusan National University	Busan	Republic of Korea	Online	II. Biomaterials and Bionanocomposites	FLASH-POSTER
PP-II-08	Fabrication and Properties of PEKK-based Hybrid 3D Printable Dental Composite Resin	Jeon Chaeyoung	Pusan National University	Busan	Republic of Korea	Online	II. Biomaterials and Bionanocomposites	FLASH-POSTER
PP-II-09	Aluminum phthalocyanine chloride aggregation in aqueous and aqueous-organic media	Klimenko Inna	Emanuel Institute of Biochemical Physics RAS	Moscow	Russia	Online	II. Biomaterials and Bionanocomposites	FLASH-POSTER
PP-II-10	Structural Features and Crystallization of Na <sub>2</sub> O-C <sub>5</sub> O-B <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> Glasses for Immobilization	Nevolina Lyubov	South Urals Research Center of Mineralogy and Geoecology UB RAS	Miass	Russia	in-person	II. Biomaterials and Bionanocomposites	FLASH-POSTER
PP-II-11	Development of new approaches to assessing the safety of nanocomposites	Novikov Mikhail	East-Siberian Institute of Medical and Ecological Research	Angarsk	Russia	Online	II. Biomaterials and Bionanocomposites	FLASH-POSTER
PP-II-12	Evaluation of biocomposites' defectiveness, the effect of defectiveness on water absorption	Pantukhov Petr	Emanuel Institute of Biochemical Physics RAS	Moscow	Russia	in-person	II. Biomaterials and Bionanocomposites	FLASH-POSTER
PP-II-13	Vancomycin-Loaded Porous Calcium Phosphate Coatings with PLGA Fabricated by Ultrasound-Assisted Micro-Arc Oxidation and Dip-coating for Drug Delivery	Prosolov Konstantin	Institute of Strength Physics and Materials Science SB RAS	Tomsk	Russia	in-person	II. Biomaterials and Bionanocomposites	FLASH-POSTER
PP-II-14	Synthesis of Magnetic Polymer Microspheres for Bio-Medical Applications	Shestakova Daria	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	II. Biomaterials and Bionanocomposites	FLASH-POSTER
PP-II-15	Investigation of changes in the physicochemical properties of multi-tonnage packaging polymer compositions on the example of low density polyethylene in the process of biodegradation	Varyan Ivetta	Emanuel Institute of Biochemical Physics RAS	Moscow	Russia	Online	II. Biomaterials and Bionanocomposites	FLASH-POSTER
PP-II-16	Fibrous biomedical materials based on polyoxybutyrate with additives	Varyan Ivetta	Emanuel Institute of Biochemical Physics RAS	Moscow	Russia	Online	II. Biomaterials and Bionanocomposites	FLASH-POSTER



PP-II-17	Development of starch/cellulose nano-fiber composites	Yu Long	South China University of Technology	Guangzhou	China	in-person	II. Biomaterials and Bionanocomposites	FLASH-POSTER
PP-II-18	Study of the possibility of creating a drug coating for biliary stents based on the copolymer "polylactic acid-polycaprolactone" modified with carbon nanotubes and doxorubicin	Zvonareva Daria	Volgograd State University	Volgograd	Russia	Online	II. Biomaterials and Bionanocomposites	FLASH-POSTER
PP-II-19	New Carbon Mineral Sorbents for Medicine	Rachkovskaya Lubov	Research Institute of Clinical and Experimental Lymphology SB RAS	Novosibirsk	Russia	Online	II. Biomaterials and Bionanocomposites	POSTER
<b>III. Applications</b>								
OP-III-09	Development of Polymer-Ceramic Li-Conducting Membranes for Li-Metal Hybrid Flow Batteries	Akhmetov Nikita	Skolkovo Institute of Science and Technology	Moscow	Russia	in-person	III. Applications	ORAL
OP-III-25	Graphene-based flow rate sensor	Andryushchenko Vladimir	Kutateladze Institute of Thermophysics of SB RAS	Novosibirsk	Russia	in-person	III. Applications	ORAL
OP-III-01	Alumina-based aerogels for application in adsorption and catalysis	Bedilo Alexander	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	III. Applications	ORAL
OP-III-27	Programmable Mechanochromic Response in 3D Printed Chiral Photonic Elastomers	Choi Jihye	Pusan National University	Busan	Republic of Korea	Online	III. Applications	ORAL
OP-III-29	Photocatalytic degradation of dexamethazone and cefazoline by TiO <sub>2</sub> /Ag nanoparticles	Chzhou Valeriya	Institute of Strength Physics and Materials Science SB RAS	Tomsk	Russia	in-person	III. Applications	ORAL
OP-III-18	Propane Transformation on In-modified BEA Zeolite	Gabrienko Anton	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	III. Applications	ORAL
OP-III-16	Platinum Ceria-Zirconia Supported Catalysts for the Water Gas Shift Reaction: Structure Diagnostics and Approaches to Boost the Performance	Gorlova Anna	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	III. Applications	ORAL
OP-III-24	Problems of screen-printed carbon electrodes for biosensor applications	Gryaznova Marina	FSBI Technological Institute for Superhard and Novel Carbon Materials	Troitsk, Moscow	Russia	Online	III. Applications	ORAL
OP-III-23	Resistive tactile sensor prototype based on biological nanomaterial	Ichkitidze Levan	Institute of Biomedical Systems, National Research University of Electronic Technology	Zelenograd, Moscow	Russia	in-person	III. Applications	ORAL
OP-III-34	Composites of polyhydroxyalkanoates with pesticides - a biodegradable basis for the creation of new generation preparations for the protection of cultivated plants from weeds and phytopathogens	Kiselev Evgeniy	Institute of Biophysics SB RAS	Krasnoyarsk	Russia	Online	III. Applications	ORAL
OP-III-11	Single-Phase vs. Two-Phase Intercalation Pathways in Polyanion-type Cathode Materials for Low-Temperature Sodium-Ion Batteries	Komayko Alena	Skolkovo Institute of Science and Technology	Moscow	Russia	in-person	III. Applications	ORAL
OP-III-15	Glass-ceramic Matrices Based on Borosilicate Glasses for the Immobilization of Radioactive Wastes	Koroleva Olga	South Urals Research Center of Mineralogy and Geoecology UB RAS	Miass	Russia	in-person	III. Applications	ORAL
OP-III-05	Thermoelectric, magnetic properties and electronic structure of solid solutions CuCr <sub>1-x</sub> La <sub>x</sub> S <sub>2</sub>	Korotaev Evgeniy	Nikolaev Institute of Inorganic Chemistry of SB RAS	Novosibirsk	Russia	Online	III. Applications	ORAL
OP-III-17	Thermal Catalytic Refining of Gases from Fast Pyrolysis of Flax Processing Waste	Kosivtsov Yury	Tver State Technical University	Tver	Russia	Online	III. Applications	ORAL
OP-III-28	Design of novel catalysts for environmental processes	Kulikova Mayya Valerevna	A.V. Topchiev Institute of Petrochemical Synthesis RAS	Moscow	Russia	in-person	III. Applications	ORAL
OP-III-02	Thermodynamics of Long-Term Adsorption Storage System of Liquefied Natural Gas Vapors Based on Advanced Mesoporous Carbon Xerogel	Menshchikov Ilya	A.N. Frumkin Institute of Physical Chemistry and Electrochemistry RAS	Moscow	Russia	in-person	III. Applications	ORAL
OP-III-14	Combined H <sub>2</sub> O And CO <sub>2</sub> Reforming Of Methane Over Ni Based CeO <sub>2</sub> -MgO Catalysts: Impacts of Preparation Mode and Pd Addition	Okhlopko Lyudmila	Boreskov Institute of Catalysis	Novosibirsk	Russia	Online	III. Applications	ORAL
OP-III-26	Application of graphene nanofluids in oil production industry	Pakharukov Yuri	Tyumen State University	Tyumen	Russia	in-person	III. Applications	ORAL
OP-III-37	Design of polyfunctional composite catalysts for hydrogen production reactions	Potemkin Dmitriy	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	III. Applications	ORAL
OP-III-36	Silica glass/mullite composites based on coal fly ash cenospheres as effective gas separation membranes	Rogovenko Elena	Institute of Chemistry and Chemical Technology SB RAS	Krasnoyarsk	Russia	Online	III. Applications	ORAL
OP-III-21	Catalytic Properties of Sodium Pectate Manganese Complexes	Sabirova Aigul	Arbuzov Institute of Organic and Physical Chemistry, FRC Kazan Scientific Center RAS	Kazan	Russia	Online	III. Applications	ORAL
OP-III-13	Catalytic Etching and Oxidation of Pt, Pd and Rh in O <sub>2</sub> and during NH <sub>3</sub> Oxidation at 1133 K	Salanov Aleksei	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	III. Applications	ORAL
OP-III-03	Aerogels in High Energy Physics, collaboration of Boreskov Institute of Catalysis and Budker Institute of Nuclear Physics	Shalygin Anton	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	III. Applications	ORAL
OP-III-30	Methyl Palmitate HDO-Hydroisomerization over SAPO-11-Containing Ni-Phosphide Catalysts	Shamanaev Ivan	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	III. Applications	ORAL

OP-III-35	Absorption of carbon dioxide using composite materials based on polyethylenimine	Sheshkovas Andrey	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	III. Applications	ORAL
OP-III-10	Electrochemical properties of composite solid electrolytes based on NaNO <sub>2</sub> and aerogel oxides	Shivtsov Danil	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	III. Applications	ORAL
OP-III-07	Proton /oxygen Ion Conductivity Ratio of Nd Containing La <sub>10</sub> W <sub>2</sub> O <sub>21</sub> /γ-La <sub>6</sub> W <sub>2</sub> O <sub>15</sub> Tungstates	Shlyakhtina Anna	Semenov Federal Research Center for Chemical Physics RAS	Moscow	Russia	in-person	III. Applications	ORAL
OP-III-12	Hydrolytic Oxidation of Cellobiose using Catalysts Containing Noble Metals	Sidorov Alexander	Tver State Technical University	Tver	Russia	Online	III. Applications	ORAL
OP-III-04	Application of nanotubular titanium dioxide for the removal of Cr(VI) from aqueous solutions	Sushnikova Anna	Institute of Metallurgy UB RAS	Ekaterinburg	Russia	in-person	III. Applications	ORAL
OP-III-20	Zeolitic imidazolate frameworks for acid-base catalysis: the structure-property-activity relationship	Timofeeva Maria	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	III. Applications	ORAL
OP-III-19	Selective hydrogenation of 1-heptene/1-heptyne mixture on mesoporous silica, doped with Dy and modified with Ag	Tokranova Elena	Samara University	Samara	Russia	in-person	III. Applications	ORAL
OP-III-33	Edible Chitosan/Spider Silk Food Coating for Fruit Preservation	Tracey Chantal Talena	ITMO University	Saint Petersburg	Russia	in-person	III. Applications	ORAL
OP-III-22	SAPO-containing Alumina CoMoNi-catalysts For Hydrotreatment of Heavy Oil: Pore Hierarchy As a Key Parameter For Catalyst Stabilization	Vorobyeva Ekaterina	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	III. Applications	ORAL
OP-III-06	Ultrathin Carbon Layer-Coated Mn-based Ion Sieve for Lithium Extraction by Electrosorption Method	Xiang Xu	Beijing University of Chemical Technology	Beijing	China	Online	III. Applications	ORAL
OP-III-08	Enantioselective voltammetric sensors based on new chiral materials	Yarkaeva Yulia	Ufa University of Science and Technology	Ufa	Russia	in-person	III. Applications	ORAL
OP-III-31	Oxidation of N-(isopropyl)-N-(phosphonomethyl)-glycine with hydrogen peroxide in the presence of nanostructured Au/Sibunit <sup>TM</sup> catalysts	Yushchenko Dmitry	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	III. Applications	ORAL
OP-III-32	Ring-Expansion from Thiophene to Thiopyran	Zhou Gang	Fudan University	Shanghai	China	in-person	III. Applications	ORAL
PP-III-01	High lanthanum oxide content glasses for optical applications	Alekseev Roman	Mendeleev University of Chemical Technology	Moscow	Russia	in-person	III. Applications	FLASH-POSTER
PP-III-02	Metal Cluster and Nanoparticle Mobility in Aromatic Polymer Network of Styrene-Divinylbenzene	Bykov Alexey	Tver State Technical University	Tver	Russia	Online	III. Applications	FLASH-POSTER
PP-III-04	The role of basic sites in H <sub>2</sub> O <sub>2</sub> -based oxidations over UiO-66	Evtushok Vasily	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	III. Applications	FLASH-POSTER
PP-III-07	Remote detection of magnetic nanoparticles in a biological medium	Ichkitidze Levan	Institute of Biomedical Systems, National Research University of Electronic Technology	Zelenograd, Moscow	Russia	in-person	III. Applications	FLASH-POSTER
PP-III-09	Impact of CO <sub>2</sub> Absorption on Mobility of [EMIm][Gly] Confined in Silica Gel	Khudozhitkov Alexander	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	III. Applications	FLASH-POSTER
PP-III-10	Pd-Ce-Ox/MWCNTs and Pt-Ce-Ox/MWCNTs Composite Materials for Low-temperature Oxidation of CO and CH <sub>4</sub>	Kibis Lidiya	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	III. Applications	FLASH-POSTER
PP-III-14	Transparent and Multi-Foldable Nanocellulose Paper Microsupercapacitors	Kim Sang-Woo	Ulsan National Institute of Science & Technology	Seoul	Republic of Korea	Online	III. Applications	FLASH-POSTER
PP-III-20	The specifics of the hydrodynamic cavitation development with the changed of the structural surface of the bodies	Kravtsova Aleksandra	Kutateladze Institute of Thermophysics of SB RAS	Novosibirsk	Russia	in-person	III. Applications	FLASH-POSTER
PP-III-22	Silver-Modified ZSM-5 Zeolite for Propene Aromatization: <sup>13</sup> C MAS NMR and FTIR Study of Alkene Transformation Mechanism	Lashchinskaya Zoya	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	III. Applications	FLASH-POSTER
PP-III-24	Enantioselective voltammetric sensor system based on mesoporous carbon black Carbopack X and cyclopentadiene derivatives for determination of clopidogrel enantiomers	Nazyrov Marat	Ufa University of Science and Technology	Ufa	Russia	in-person	III. Applications	FLASH-POSTER
PP-III-25	Composite material based on oriented nickel oxide networks in a polymer matrix as an active element of a conductometric greenhouse gas sensor	Nizameeva Guliya	Arbuzov Institute of Organic and Physical Chemistry, FRC Kazan Scientific Center RAS	Kazan	Russia	in-person	III. Applications	FLASH-POSTER
PP-III-29	The Optimization of Ultrasonic Welding of PEEK Plates with CF Fabric Reinforcement by Neural Network Simulation	Panin Sergey	Institute of Strength Physics and Materials Science SB RAS	Tomsk	Russia	in-person	III. Applications	FLASH-POSTER
PP-III-30	Double perovskite oxide La <sub>2</sub> NiMnO <sub>6</sub> and Sm <sub>2</sub> NiMnO <sub>6</sub> thin films as promising materials for inorganic perovskite solar cells	Petrova Vasilisa	Emanuel Institute of Biochemical Physics RAS	Moscow	Russia	in-person	III. Applications	FLASH-POSTER
PP-III-35	2D materials based photocatalysis for water purification	Rymzhina Anastasiia	Samara National Research University	Samara	Russia	in-person	III. Applications	FLASH-POSTER
PP-III-36	A Microgrid-Patterned Silicon Electrode as an Electroactive Lithium host	Ryou Myeong-Hwa	Yonsei University	Seoul	Republic of Korea	Online	III. Applications	FLASH-POSTER

PP-III-37	Electrode-customized separator membranes based on self-assembled chiral nematic liquid crystalline cellulose nanocrystals as a natural material strategy for sustainable Li-metal batteries	Seo Ji Young	Yonsei University	Seoul	Republic of Korea	Online	III. Applications	FLASH-POSTER
PP-III-38	Effect of Ag/TiO <sub>2</sub> Core/shell Nanostructures on the Photocatalytic Activity of the TiO <sub>2</sub> /rGO Nanocomposite Material	Serikov Timur	Buketov Karaganda University	Karaganda	Kazakhstan	in-person	III. Applications	FLASH-POSTER
PP-III-39	The manufacturing of fire-extinguishing powder materials with specific morphology and hydrophobicity of ammonium phosphates particles	Shamsutdinov Artem	Institute of Technical Chemistry UB RAS	Perm	Russia	in-person	III. Applications	FLASH-POSTER
PP-III-43	The highly active MoVSbNbGdOx/SiO <sub>2</sub> catalysts for oxidative dehydrogenation of ethane to ethylene	Shutilov Aleksey	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	III. Applications	FLASH-POSTER
PP-III-44	Lignin valorisation in the presence of SiO <sub>2</sub> @polymer supported catalysts	Stepacheva Antonina	Tver State Technical University	Tver	Russia	Online	III. Applications	FLASH-POSTER
PP-III-45	CO <sub>2</sub> Hydrogenation Reaction over Biochar-Based Catalysts	Svidersky Sergey	A.V. Topchiev Institute of Petrochemical Synthesis RAS	Moscow	Russia	in-person	III. Applications	FLASH-POSTER
PP-III-49	Study of the hydrothermal treatment process on the stability of acrylate copolymers for the development of energy-efficient for the synthesis of energy saving drag reduction additives	Voronina Natalia	Institute of Technical Chemistry UB RAS	Perm	Russia	in-person	III. Applications	FLASH-POSTER
PP-III-50	Pine Nut Shell Derived Activated Carbons For Non-Aqueous Electrolyte Based EDLCs: An Effect Of Surface Oxygen Functional Groups	Yeletsky Petr	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	III. Applications	FLASH-POSTER
PP-III-52	Enantioselective voltammetric sensors based on functionalized fullerene for antibiotics determination	Zagitova Liana	Ufa University of Science and Technology	Ufa	Russia	in-person	III. Applications	FLASH-POSTER
PP-III-03	Synthesis and characterization of polyaniline doped with copper ions as sensor material for non-enzymatic determination of carbohydrates in liquids	Davletkildeev Nadim	Omsk Scientific Center of SB RAS	Omsk	Russia	Online	III. Applications	POSTER
PP-III-05	Monitoring the remediation of oil-contaminated permafrost soils on the territory of the tank farm	Glyaznetsova Yuliya	Institute of oil and gas problems SB RAS	Yakutsk	Russia	in-person	III. Applications	POSTER
PP-III-06	Flexible Mn-rich cathode for high energy density lithium metal batteries	Hong Young-Kuk	Yonsei University	Seoul	Republic of Korea	Online	III. Applications	POSTER
PP-III-08	Thin-film flat superconducting magnetic field concentrator	Ichkitidze Levan	Institute of Biomedical Systems, National Research University of Electronic Technology	Zelenograd, Moscow	Russia	in-person	III. Applications	POSTER
PP-III-11	Tuning the Activity and Selectivity of Pt/TiO <sub>2</sub> Ammonia Slip Catalysts by Surface Modification	Kibis Lidiya	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	III. Applications	POSTER
PP-III-12	Eutectic electrolytes for low-temperature aqueous lithium-ion batteries	Kim Hong-I	Yonsei University	Seoul	Republic of Korea	Online	III. Applications	POSTER
PP-III-13	Redox-homogeneous, gel electrolyte-embedded high-mass-loading cathodes for high-energy lithium metal batteries	Kim Jung-Hui	Yonsei University	Seoul	Republic of Korea	Online	III. Applications	POSTER
PP-III-15	Flexible lithium metal batteries based on polymeric hosts	Kim Seung-Hyeok	Yonsei University	Seoul	Republic of Korea	Online	III. Applications	POSTER
PP-III-16	Demixing the miscible liquids: toward biphasic battery electrolytes based on the kosmotropic effect	Kim Won-Yeong	Yonsei University	Seoul	Republic of Korea	Online	III. Applications	POSTER
PP-III-17	Analysis of the product of processing tungsten ore concentrate by the electric arc discharge method in open air	Kokorina Aleksandra	National Research Tomsk Polytechnic University	Tomsk	Russia	in-person	III. Applications	POSTER
PP-III-18	Application of silver metal-polymer nanocomposites in the analysis of iodide ions	Kolesnikova Tatiana	Southern Federal University	Rostov-on-Don	Russia	in-person	III. Applications	POSTER
PP-III-21	Air-Cleaning Coatings based on Nano-TiO <sub>2</sub>	Krupnova Tatyana	South Ural State University	Chelyabinsk	Russia	in-person	III. Applications	POSTER
PP-III-19	Ni/CeO <sub>2</sub> Catalysts Synthesized by Solution Combustion Method for Steam and Aqueous-phase Reforming of Glycerol	Matveyeva Anna	Ioffe Physical Technical Institute RAS	Saint Petersburg	Russia	in-person	III. Applications	POSTER
PP-III-23	Nitrile Electrolyte Strategy for 4.9 V-Class Lithium-Metal Batteries Operating in Flame	Moon Hyunseok	Yonsei University	Seoul	Republic of Korea	Online	III. Applications	POSTER
PP-III-26	Cathode catalysts on cobalt coordination bis-diphosphine complexes	Nizameeva Guliya	Arbuzov Institute of Organic and Physical Chemistry, FRC Kazan Scientific Center RAS	Kazan	Russia	in-person	III. Applications	POSTER
PP-III-27	Scalable semi-solid batteries based on hybrid polymer-liquid electrolytes	Oh Kyeong-Seok	Yonsei University	Seoul	Republic of Korea	Online	III. Applications	POSTER
PP-III-28	ZrO <sub>2</sub> -nH <sub>2</sub> O prehistory: regularities of the ZrO <sub>2</sub> formation and the influence on the Ni/ZrO <sub>2</sub> catalyst performance in glycerol steam reforming	Omarov Shamil	Ioffe Physical Technical Institute RAS	Saint Petersburg	Russia	in-person	III. Applications	POSTER
PP-III-31	Study of the impact of the lignite carbonization conditions on mineral phase transformations	Popova Anna	Federal Research Center of Coal and Coal-Chemistry SB RAS	Kemerovo	Russia	in-person	III. Applications	POSTER

PP-III-32	Photocatalytic Degradation of Formaldehyde in Air using a Nano-particulate Titanium Dioxide Photocatalyst	Rakova Olga	South Ural State University	Chelyabinsk	Russia	in-person	III. Applications	POSTER
PP-III-33	Applications of Detonation Nanodiamonds in the Design of Sensor Composites and Biosensors	Ronzhin Nikita	Institute of Biophysics SB RAS	Krasnoyarsk	Russia	Online	III. Applications	POSTER
PP-III-34	Effect of Nb Doping on the Hydrophilicity of TiO <sub>2</sub> Thin Films	Rudakova Aida	Saint Petersburg State University	Saint Petersburg	Russia	Online	III. Applications	POSTER
PP-III-40	Coproduction of Hydrogen and Carbon Nanomaterials by Catalytic Decomposition of Methane-Hydrogen Mixtures: Experimental and Simulation Results	Shelepova Ekaterina	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	III. Applications	POSTER
PP-III-41	Stress-effect of adsorption-induced deformation of the carbon adsorbent within a range of low adsorption values	Shkolin Andrey	A.N. Frumkin Institute of Physical Chemistry and Electrochemistry RAS	Moscow	Russia	in-person	III. Applications	POSTER
PP-III-42	Photocatalytic Properties of Titanium Dioxide Doped with La in Dye Oxidation Reactions	Shmelev Aleksandr	Samara University	Samara	Russia	Online	III. Applications	POSTER
PP-III-46	Polysaccharide macromolecules as transport matrices of nano-size compositions, candidates for diagnostics, therapy and theranostics of cancer diseases	Titova Yuliya	Irkutsk State University	Irkutsk	Russia	Online	III. Applications	POSTER
PP-III-47	The Preparation of Zeolite Containing MoS <sub>2</sub> Catalysts for Hydrodeoxygenation/Hydroisomerization of Aliphatic Esters	Vlasova Evgeniya	Boreskov Institute of Catalysis	Novosibirsk	Russia	in-person	III. Applications	POSTER
PP-III-48	Sodium chloride as active medium in the solid phase redox transformations of organic substances	Vol'eva Violetta	Emanuel Institute of Biochemical Physics RAS	Moscow	Russia	Online	III. Applications	POSTER
PP-III-51	Effect of microadditives on morphology, stability and number of charge carriers in a solar cell based on P3DDT/PCBM	Yudanova Evgeniya	Federal Research Center of Problems of Chemical Physics and Medicinal Chemistry RAS	Chernogolovka	Russia	Online	III. Applications	POSTER