

#### Tuesday 9 Nov 11:30-13:00, moderator Prof. R. Islamova

11:30 - 11:39	Khoroshilova Olesya	Synthesis of 1,3-Di(trifluoromethyl)indanes and $\alpha$ - (Trifluoromethyl)styrenes via Superelectrophilic Activation of ( $\alpha$ - Me <sub>3</sub> SiO-trifluoropropyl)(het)arenes
11:39 - 11:48	Levashova Ekaterina	Synthesis of Diastereomerically Pure 3-Cyanoazetidin-2-ones via Thermally Promoted Tandem Wolff Rearrangement–Staudinger [2+2] Cycloaddition
11:48 - 11:57	Misikov Georgii	The Investigation of The Liquid-Liquid Equilibria in The System Acetic Acid – N-amyl Alcohol – N-amyl Acetate – Water at Polythermal Conditions
11:57 - 12:06	Paramonova Polina	Diastereoselective Synthesis of $\delta$ -Lactams $via$ Two-component Castagnoli-Cushman Reaction of Imines and Glutaric Acid Derivatives
12:06 - 12:15	Ketova Anna	Crystal-chemical design of gold(I) complexes with isocyanide ligands
12:15 - 12:24	Khramova Alina	Organo-inorganic Derivatives of Layered Perovskite-Like Oxide $HB_2Nb_3O_{10}$ (B = Ca, Sr) with Amino Alcohols
12:24 - 12:33	Kuznetsov Kirill	Molecular thermometers based on europium(II) complexes
12:33 - 12:42	Matsenko Roman	Gd-Doped Hydroxyapatite Nanoparticles
12:42 - 12:51	Nebalueva Anna	Supramolecular Structure for Creating Functional Materials
	Novoselova	Study of mass and charge transfer at low temperatures in Salen type
12:51 - 13:00	Julia	nickel polymer complexes

### 13:30-15:00, moderator Prof. A. Penkova

13:30 - 13:39	Anishchenko Dmitrii	Simulation of the Li-ion battery overcharge protected by voltage- switchable resistive polymer layer
13:39 - 13:48	Beletskii Evgenii	Microplasma-assisted Synthesis of Iron Oxide for Battery Application
13:48 - 13:57	Vereshchagin Anatoliy	Hybrid TEMPO-containing Redox-conductive Polymers for Organic Batteries
13:57 - 14:06	Myznikov Danila	Novel pervaporation and ultrafiltration membranes based on polyphenylenesulfone modified by titanium dioxide
14:06 - 14:15	Zolotarev Andrei	Novel Ultrafiltration Membranes Based On Polyvinylidene Fluoride Modified By Titanium Dioxide
14:15 - 14:24	Chepeleva Anastasia	Novel High-Performance Blend Hydroxyethyl Cellulose/Sodium Alginate Membranes with Fullerenol for Enhanced Pervaporation
14:24 - 14:33	Dmitrenko Mariia	Development and Study of Novel Blend Hydroxyethyl Cellulose (HEC)/Polyvinyl Alcohol (PVA) Membranes Modified with Fullerene Derivatives for Pervaporation Dehydration
14:33 - 14:42	Liamin Vladislav	Development and Study of Novel Pervaporation Membranes Based on Polyphenylene Oxide Modified with Graphene Oxide
14:42 - 14:51	Loginova Evgeniia	Novel membrane based on polyacrylonitrile modified by titanium dioxide for water/oil separation
14:51 - 15:00	Loschinina Julia	Novel Self-Cleaning Ultrafiltration Membranes Based on Poly(m-phenylene isophtalamide) Modified by TiO <sub>2</sub>



#### 15:15-16:45, moderator Prof. D. Kirsanov

• 15.15 10.45/ 11104c14(6) 1 101. 5. 1(1)54110V			
15:15 - 15:24	Aliev Timur	Supramolecular Assemblies Analysis Using Machine Learning Image Processing	
15:24 - 15:33	Lavrentev Filipp	Soft Hydrogel Actuator for Machine-Learning-Assisted Bacteria Detection	
15:33 - 15:42	Evdokimov Aleksei	Nanostructuring of screen-printed electrodes by Prussian blue and polyelectrolytes layers for biosensoring	
15:42 - 15:51	Fedotov Igor	Electrochemical sensor for detection of Staphylococcus aureus	
15:51 - 16:00	Stekolshchikova Anna	Electrochemical sensor platform to detect of viruses and bacterial pathogens in biological fluids	
16:00 - 16:09	Chakalov Edem	Topology of an Electron Density and Electrostatic Potential Distribution Along the Bond Path for Evaluation of Halogen Bond's Strength	
16:09 - 16:18	Korostelev Vladislav	Evolution of arsinic acids hydrogen-bonded complexes properties in media with different dielectric permittivity	
16:18 - 16:27	Korovkina Olga	Histidine containing polypeptide nanoparticles for siRNA Delivery	
16:27 - 16:36	Luginin Maksim	Novel organogold stilbene photoswitchers: synthesis and photochromic properties	
16:36 - 16:45	Maltseva Taisia	Express Extraction-Photometric Determination of Boron in Aqueous and Organic Phases	

### 16:57-18:00, moderator D. Mamonova

16:57 - 17:06	Medvedev Vassily	Synthesis of weakly-agglomerated oxide phosphors for non-contact thermometry
17:06 - 17:15	Shubina Irina	Luminescent Nanomarker Based on $Gd_2O_3$ : $Nd^{3+}$ , $Er^{3+}$ , $Tm^{3+}$ Particles: Synthesis and Characterization
17:15 - 17:24	Bulatova Tatyana	Synthesis of Luminescent NaYF <sub>4</sub> :Sm <sup>3+</sup> , NaYF <sub>4</sub> :Yb <sup>3+</sup> , Ho <sup>3+</sup> , NaYF <sub>4</sub> :Tb <sup>3+</sup> Small-Sized Particles
17:24 - 17:33	Zheltova Victoria	Multifunctional MRI and Luminescence Agent Based on Magnetite Nanoparticles: Correlation between Shell Parameters and Signals Intensity
17:33 - 17:42	Kochetkova Maria	«Green» extraction technique for the determination of formaldehyde in milk
17:42 - 17:51	Kolesnik Stefaniia	Luminescent Micro- and Nanocrystalline Europium(III) Terephthalates as Luminescent Probes for Heavy Metal Ions
17:51 - 18:00	Kuznetsova Anastasiia	Structure and electrokinetic potential of nanoporous glasses doped with silver halides



### Wednesday 10 Nov 11:00-12:30, moderator Prof. E. Grachova

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11:00 - 11:09	Pavlova	Hydrophobic Deep Eutectic Solvents for the Separation of Zearalenone
	Kseniya	from Bread Followed by Liquid Chromatographic Determination
11:09 - 11:18	Badretdinova Vlada	Local Delivery of Antibiotics in the Surgical Treatment of Bone Infections
11:18 - 11:27	Svinko Vasilisa	SERS detection of proteins on substrates basing on hydroxyapatite doped with silver nanoparticles
11:27 - 11:36	Pomytkina Anastasia	Multielectrode electrochemical system for antibiotics detection in raw milk
11:36 - 11:45	Chernysheva Anna	Computational Study of Synthetic Routes Towards $PH_2BH_2EH_2$ (E = C, Si, Ge, Sn) Complexes
11:45 - 11:54	Kalinin Nikita	Synthesis and Structures of SnCl <sub>4</sub> Complexes with 4,4'-bipyridine
11:54 - 12:03	Parfeniuk Tatiana	Synthesis of NHC-stabilized triphosphanylborane
12:03 - 12:12	Shcherbina Nadezhda	Features of the Complexes of Al( $C_6F_5$ ) <sub>3</sub> with Pyridine-type Ligands: Pyrazine, 2-Aminopyridine and 4,4'- Bipyridine
12:12 - 12:21	Zavgorodnii Artem	Donor-Acceptor Complexes of Lewis Acid $Ga\{N(C_6F_5)_2\}_3$ with Acetonitrile and Pyridine
12:21 - 12:30	Derouiche Abdennour	Features of the dependence of retention indices on the content of methanol in an eluent in reversed phase HPLC

#### 13:00-14:30, moderator Prof. E. Grachova

13:00 14:30, moderator i for E. Gracilova		
13:00 - 13:09	Kamenskii Mikhail	Enhancement of the Electrochemical Performance of $\delta$ -MnO <sub>2</sub> Electrodes by Introducing Conducting Polymer
13:09 - 13:18	Timralieva Aleksandra	Supramolecular Assemblies for Biomolecules Encapsulation
13:18 - 13:27	Kalnin Arseniy	Synthesis and Electrocatalytic Activity of Nitrogen- and Transition Metal-doped Carbon-based Materials
13:27 - 13:36	Markova Ulayna	Spectrophotometric Method for The Determination of Urea in Milk Based on Microextraction in Deep Eutectic Solvent
13:36 - 13:45	Melesova Maria	Microextraction of Sulfonamides from Food Samples in Deep Eutectic Solvent
13:45 - 13:54	Nizov Egor	Microextraction of Melamine from Dairy Products in Deep Eutectic Solvent Prior to HPLC-UV Analysis
13:54 - 14:03	Zhdanova Marina	Deep Eutectic Solvents as a Medium for Chemiluminescent Reactions Based on Luminol
14:03 - 14:12	Smirnov Alexander	Peculiarities of Phase Behavior of Chemically Equilibrium Mixtures in the Critical Region under Isothermal Conditions
14:12 - 14:21	Smirnov Alexander	Methods of phase equilibrium research
14:21 - 14:30	Zolotovsky Konstantin	The accuracy of the critical point prediction in binary and multicomponent systems by NRTL model based on liquid-liquid equilibrium data



### 14:45-16:15, moderator Prof. D. Kirsanov

14:45 - 14:54	Mukhin Kirill	Electrochemical Stability of Aqueous System Containing Lithium and Cesium Acetates
14:54 - 15:03	Ostrokhishko Anastasiya	Influence of the microelements on anticancer metabolites biosynthesis in basidiomycetes
15:03 - 15:12	Paderina Aleksandra	Pyridyl-functionalized Phosphinine As a Ligand for Novel Cu(I) Complexes
15:12 - 15:21	Pershina Liubov	Polyelectrolyte multilayers for robust carbon fiber-based potentiometric ion sensing and correlation between elemental constituent in blood and urine
15:21 - 15:30	Shevchuk Alisa	Plasmon Nanoparticles Dimers Obtained by Molecular Crosslinking with Diaminotolane
15:30 - 15:39	Pikalova Tatyana	New Thermo- and Potentioresistive Organometallic Polymers
15:39 - 15:48	Popov Roman	Polynuclear Metal Complexes Formed by Coupling of Azahetero-cyclic Thiones with Coordinated Aryl Isocyanides
15:48 - 15:57	Rostovtseva Valeriia	Perovskite-like Oxide Doped into Polyetherimide Mixed Matrix Membranes for Liquid and Gas Separation
15:57 - 16:06	Serykh Tatyana	Creation of synthetic hydroxyapatite in the presence of optically active substances
16:06 - 16:15		Might be changed soon

#### 16:30-18:00, moderator Prof. E. Grachova

10.50-10.00, moderator rior. E. Grachova		
16:30 - 16:39	Potapenkov Vasilii	Synthesis of polythiophene doped sulfonated polycatechol
16:39 - 16:48	Zyryanova Polina	Studying the cell-cell communication via ion channels
16:48 - 16:57	Zharskaia Nina	Photophysical Properties of C^N*N^C-cyclometalated Platinum(II) Complexes
16:57 - 17:06	Verkhov Valeriy	Theoretical and Experimental Investigation of the Peculiarities of the Interaction of Pyridines with Organolithium Reagents
17:06 - 17:15	Strelnikov Aleksei	Silver and Gold Nanoparticles Modified with Cyclene and Tetraxetane Chelators: Preparation and Optical Properties
17:15 - 17:24	Titov Gleb	Reactions of diazo compounds with 2H-azirine-2-carboxylic acids under metal catalysis and photolysis
17:24 - 17:33	Yuskina Ekaterina	Multipurpose detector based on high frequency inductor
17:33 - 17:42	Volkov Alexey	Synthesis and Electrochemical Properties of Conducting Polymer- Coated Molybdenum Disulfide
17:42 - 17:51	Strizhneva Varvara	Electroanalytical detection of zinc in running water
17:51 - 18:00	Sabbouh Mirna	Sonochemical nanostructuring of Cu-Zn alloy



### Thursday 11 Nov 11:00-12:57, moderator A. Gubal

11:00 - 11:09	Gruzdeva Ekaterina	Study of Photocatalytic Activity of Butylamine-intercalated Perovskite-like Layered Oxide H <sub>2</sub> La <sub>2</sub> Ti <sub>3</sub> O <sub>10</sub>
11:09 - 11:18	Kurnosenko Sergei	Stability of Hybrid Inorganic-Organic Photocatalysts Based on the Layered Perovskite-Like Titanate H <sub>2</sub> La <sub>2</sub> Ti <sub>3</sub> O <sub>10</sub> in the Reaction of Hydrogen Generation from Aqueous Methanol
11:18 - 11:27	Kurnosenko Sergei	Organic Modification of Layered Perovskite-Like Titanates HLnTiO <sub>4</sub> (Ln = La, Nd) as an Efficient Approach to the Enhancement of Their Photocatalytic Performance towards Hydrogen Production
11:27 - 11:36	Podurets Anastasiia	Rational Design of Ni-doped SnO <sub>2</sub> Nanoparticles for Organic Dyes and Bacterial Water Remediation: Synthesis and Photocatalytic Procedure
11:36 - 11:45	Skripkin Eugene	Correlation Between Structural Parameters and Photocatalytic Activity of V or Ti-Doped SnO <sub>2</sub> Spherical Nanoparticles
11:45 - 11:54	Voytovich Vladimir	Investigation of Perovskite-like Niobate HCa₂Nb₃O₁₀ Exfoliated into Nanolayers as a Photocatalyst for Hydrogen Production from Aqueous Methanol
11:54 - 12:03	Smirnov Egor	Increased plasticity of chalcogenide glasses while maintaining a high glass transition temperature
12:03 - 12:12	Markarian Artur	Correlation Between Structural Parameters and Photoluminescent Characteristics of Eu-Doped Boehmite Nanoparticles
12:12 - 12:21	Vaishlia Elena	Co-Doped LuVO <sub>4</sub> :Nd <sup>3+</sup> ,Yb <sup>3+</sup> Nanoparticles as Ratiometric Luminescent Thermometers
12:21 - 12:30	Shershnev Ivan	Synthesis of Indenes via the Reaction of Trihalomethyl-substituted Enones with Arenes in CF₃SO₃H