



XXII MENDELEEV CONGRESS ON
GENERAL AND APPLIED CHEMISTRY

PROGRAM

7 — 12.10.2024

The Sirius Federal Territory
SIRIUS UNIVERSITY, OLYMPIC AVENUE, 1

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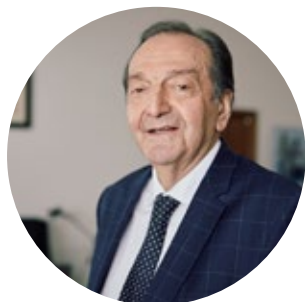
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CONTENT

PLENARY LECTURES	10
SECTION 1 Fundamental bases of chemical science	14
SECTION 2 Chemistry and technology of materials	22
SECTION 3 Physico-chemical bases of metallurgical processes	34
SECTION 4 Resource saving, environmental safety and chemical-technological processes in circular economy	43
SECTION 5 Chemistry of fossil and renewable hydrocarbon resources	52
SECTION 6 Analytical chemistry: new methods and tools for chemical research and analysis	59
SECTION 7 Catalysis in science and industry	68
SECTION 8 Polymers and polymeric materials (including 2nd International Symposium “Modern Trends in Dendrimer Chemistry and Applications”)	77
SECTION 9 Chemical education	85
SYMPOSIA	
11. Symposium on chromatography	93
12. 11th International Frumkin symposium on electrochemistry	100
13. Actual problems of energy conversion in lithium electrochemical systems	111



14. f-Block elements: Recent Advances and Challenges	119
15. Macrocyclic compounds – new perspective molecular materials for science, techniques, technology, and medicine (applications)	122
16. Symposium on nuclear chemistry (BRICS+)	127
17. Russian-Chinese symposium on selective technologies for separation of substances with similar properties	134
18. Development of the mineral resources for Russia's technological sovereignty	137
19. Symposium on medicinal chemistry	144
20. Symposium on the history of chemistry	149
21. Symposium on molecular biochemistry	151
23. Symposium "Glass and ceramics"	158
POSTER SESSION	161





XXII MENDELEEV CONGRESS ON
GENERAL AND APPLIED CHEMISTRY

PLENARY LECTURES

Time specified in the program,
includes report and answers to questions

Plenary lectures

MONDAY, OCTOBER 7

Hall Mendeleev		
13:00–14:00	Opening ceremony <i>Chair: Tsivadze A.Yu.</i>	
14:00–14:40	Krasnikov G.Ya.	MICROELECTRONIC TECHNOLOGIES, STATUS AND DEVELOPMENT PROSPECTS
14:40–15:20	Kovalchuk M.V.	NATURE LIKENESS: A NEW ERA OF HUMAN DEVELOPMENT
15:20–16:00		Break <i>Chair: Zolotov Yu.A.</i>
16:00–16:40	Shechtman D. (Israel)	QUASI-PERIODIC CRYSTALS, A PARADIGM SHIFT IN CRYSTALLOGRAPHY
16:40–17:20	Cetto A.M. (Mexico)	QUANTUM PHYSICS: 100 YEARS OF OPEN QUES- TIONS
17:20–18:00	Fokin V. (USA)	LIFE OF A MOLECULE: FROM CHEMICAL REACTIVITY TO A PATIENT
18:00–21:00	Welcome reception	

TUESDAY, OCTOBER 8

Hall Atom		
	<i>Chair: Egorov M.P.</i>	
09:00–09:40	Aldoshin S.M.	CRITICAL TECHNOLOGIES FOR THE DEVELOPMENT OF THE MINERAL RESOURCES BASE OF THE RUSSIAN FEDERATION: FROM FORECASTING AND ORE MINING TO METAL EXTRACTION AND THE HIGH- TECH PRODUCTS
09:40–10:20	Ancheyta Jorge (Mexico)	FROM THE REFINERY TO THE RESERVOIR: APPLICA- TION TO IN-SITU UPGRADING OF HEAVY CRUDE OILS
10:20–10:50		Coffee-break <i>Chair: Dontsova O.A.</i>
10:50–11:30	Gabibov A.G.	COMBINATORIAL CHEMISTRY&BIOLOGY
11:30–12:10	Ananikov V.P.	ARTIFICIAL INTELLIGENCE IN CHEMISTRY
12:10–14:00		Lunch

Plenary lectures

WEDNESDAY, OCTOBER 9

Hall Atom		
<i>Chair: Kalmykov S.N.</i>		
09:00–09:40	Tsivadze A.Yu.	BREAKTHROUGH CHEMICAL TECHNOLOGIES FOR PROCESSING RARE-METAL RAW MATERIALS
09:40–10:20	Rudskoi A.I.	DIGITAL ANALOGS OF INDUSTRIAL TECHNOLOGIES FOR THERMOMECHANICAL PROCESSING (TMP) OF STEEL
10:20–10:50		Coffee-break
<i>Chair: Gorbunova Yu.G.</i>		
10:50–11:30	Kalmykov S.N.	CHEMICAL ASPECTS OF THE DEVELOPMENT OF NEW RADIOPHARMACEUTICALS
11:30–12:10	Torres Tomas (Spain)	SUBPHTHALOCYANINES: SINGULAR AROMATIC NON-PLANAR AND CHIRAL MOLECULES
12:10–14:00		Lunch

THURSDAY, OCTOBER 10

Hall Atom		
<i>Chair: Ananikov V.P.</i>		
09:00–09:40	Beletskaya I.P.	ORGANIC SYNTHESIS
09:40–10:20	Bukhtiyarov V.I.	SUPPORTED BIFUNCTIONAL AND BIMETALLIC CATALYSTS – WHAT IS MORE IMPORTANT IS THE CHOICE OF PREPARATION METHODS OR ACTIVATION CONDITIONS?
10:20–10:50		Coffee-break
<i>Chair: Aldoshin S.M.</i>		
10:50–11:30	Maksimov A.L.	CHEMICAL AND REFINING IN INDUSTRY: NEW CHALLENGES AND OPPORTUNITIES
11:30–12:10	Lysak V.I.	CREATION OF NEW MATERIALS USING EXPLOSION ENERGY
12:10–14:00		Lunch

Plenary lectures

FRIDAY, OCTOBER 11

Hall Mendeleev

Chair: Tsivadze A.Yu.

14:00–14:40 **Zolotov Yu.A.** MENDELEEV CONGRESSES: AN ESSAY ON HISTORY

14:40–15:30 **Closing ceremony**

Chairs – Full Member of RAS M.P. Egorov, Full Member of RAS S.M. Aldoshin

Section 1

FUNDAMENTAL BASES OF CHEMICAL SCIENCE

Time specified in the program,
includes report and answers to questions

October 8

SECTION 1

Hall Lomonosov

Chair: Razumov V.F., Yaroslavtsev A.B.

14:00–14:30	KL	Fedyushkin I.L.	METALLOIMIDAZOLS – NEW CLASS OF ORGANIC HETEROCYCLES
14:30–14:50	IL	Kuchin A.V.	CHLORINE DIOXIDE - A NEW SELECTIVE OXIDIZING AGENT FOR ORGANIC SYNTHESIS
14:50–15:10	IL	Fershtat L.L.	ADVANCES IN THE SYNTHESIS OF POLYNITROGEN HETEROCYCLES
15:10–15:30	IL	Lomonosov I.V.	PHYSICAL - CHEMICAL PROPERTIES OF MATTER UNDER EXTREME CONDITIONS
15:30–15:50	IL	Bagryanskaya E.G.	NITRIDE AND TRITYL RADICALS AND BIRADICALS AS POLARIZING AGENTS FOR DYNAMIC NUCLEAR POLARIZATION
15:50–16:15			Coffee-break

Hall Lomonosov

Chair: Karasik A.A., Zlotin S.G.

16:15–16:30	OL	Butov G.M.	1,3-DEHYDROADAMANTANE AND ITS DERIVATIVES: A UNIVERSAL SYNTHETIC PLATFORM FOR OBTAINING FUNCTIONAL COMPOUNDS WITH FRAMEWORK STRUCTURE
16:30–16:45	OL	Magdesieva T.V.	RIGID SPIROAMINYL RADICALS: A NOVEL TYPE OF STABLE MONO- AND POLYRADICAL SYSTEMS
16:45–17:00	OL	Rostovskii N.V.	2H-AZIRINES: SYNTHETIC BLOCKS, LIGANDS, INTERMEDIATES AND BIOACTIVE SUBSTANCES
17:00–17:15	OL	Dyachenko I.V.	MULTICOMPONENT TANDEM IN THE SYNTHESIS OF FIVE- AND SIX-MEMBERED HETEROCYCLES
17:15–17:30	OL	Gazizov A.S.	CHEMISTRY OF IMIDAZOLINE-2-ONES – ACHIEVEMENTS, CHALLENGES AND PROSPECTS.
17:30–17:45	OL	Burgart Ya.V.	APPROACHES TO SYNTHESIS AND MODIFICATION OF POLYFLUOROFLAVONES
17:45–18:00	OL	Gamov G.A.	COORDINATION CHEMISTRY OF GOLD(III): PECULIARITIES OF COMPLEX FORMATION IN AQUEOUS SOLUTION, COMPLEX STRUCTURE AND INTERACTION WITH PROTEINS AND DNA
18:00–18:15	OL	Tomilov Yu.V.	NEW CARBOCATION CYCLIZATION REACTIONS BASED ON THE FUNCTIONALIZATION OF ALIPHATIC CH ₂ GROUPS

October 8

SECTION 1

18:15–18:30	OL	Sadovnichii D.N.	ASSEMBLY OF NANO AND MICROSTRUCTURES IN CASE OF COLLAPSE OF SYNTACTIC FOAM MICROSPHERES UNDER EXTREME CONDITIONS
18:30–18:45	OL	Savchenkov A.V.	QUANTITATIVE DESCRIPTION OF ATOMIC INTERACTIONS IN CRYSTAL STRUCTURES ON THE EXAMPLE OF BENZENESULFONAMIDE DERIVATIVES
18:45–20:00			Poster session

October 9

SECTION 1

Hall Lomonosov

Chair: Aldoshin S.M., Egorov M.P.

14:00–14:30	KL	Yaroslavtsev A.B.	MATERIALS FOR CHEMICAL CURRENT SOURCES
14:30–14:50	IL	Zlotin S.G.	ORGANIC SYNTHESIS IN LIQUIFIED GASES: ACHIEVEMENTS AND CHALLENGES
14:50–15:10	IL	Nifantev N.E.	APPROACHES FOR INVESTIGATION OF LI-GAND-RECEPTOR INTERACTION: ROLE OF THE LIGAND DISPLAY
15:10–15:30	IL	Komlev V.S.	BIOCOMPATIBLE MATERIALS BASED ON CALCIUM PHOSPHATES FOR REGENERATIVE MEDICINE AND TISSUE ENGINEERING
15:30–15:50	IL	Zolotukhina E.V.	TOWARDS BIOELECTROCHEMICAL DEVICES RESEARCH AND DEVELOPMENT
15:50–16:15			Кофе-брейк

Hall Lomonosov

Chair: Komlev V.S., Saloutin V.I.

16:15–16:30	OL	Konarev D.V.	DESIGN OF METAL-ORGANIC PARAMAGNETS BASED ON METALLOCOMPLEXES, FULLERENES, HEXAAZATRIPHENYLENES AND SPIROPYRANS
16:30–16:45	OL	Kiskin M.A.	INFLUENCE OF INTERMOLECULAR INTERACTIONS ON THE MAGNETIC EFFECT IN COORDINATION COMPOUNDS OF COBALT(II) WITH 1,6-DIAMINOHEXANE
16:45–17:00	OL	Shcherbakov I.N.	COBALT(II) COORDINATION COMPOUNDS WITH FIELD INDUCED SLOW RELAXATION OF MAGNETIZATION
17:00–17:15	OL	Sidorov A.A.	THE STRUCTURE OF MOLECULES OF LANTHANIDES CARBOXYLATE COMPLEXES IN SOLID SOLUTIONS AND CO-CRYSTALS
17:15–17:30	OL	Mikhailov O.V.	HOMO- AND HETEROLIGAND COMPLEXES OF 3d ELEMENTS WITH PORPHYRAZINE/PERFLUOROPORPHYRAZINE AND FLUORINE LIGANDS ACCORDING TO DATA OF THE DFT METHOD: INFLUENCE OF AXIAL AND PERIPHERAL FLUORINE ATOMS
17:30–17:45	OL	Piskunov A.V.	LIGAND-TO-LIGAND' CHARGE TRANSFER IN CATECHOL-DIIMINE METAL COMPLEXES

October 9

SECTION 1

17:45–18:00	OL	Savinkina E.V.	RARE-EARTH HALIDE COMPLEXES OF ACETYLUREA: UNUSUAL VARIETY OF STRUCTURES
18:00–18:15	OL	Tsvetkov D.S.	EXPERIMENTAL THERMOCHEMICAL STUDY OF PEROVSKITE-TYPE CsPbX ₃ (X = Cl, Br, I) HALIDES AND THERMODYNAMIC MODELLING OF BINARY PHASE DIAGRAMS INVOLVING THESE COMPOUNDS
18:15–18:30	OL	Volkov V.I.	WATER AND CATION MOBILITY IN SULFONIC CATION EXCHANGERS STUDIED BY NMR
18:45–20:00			Poster session

October 10

SECTION 1

Hall Lomonosov

Chair: Fedyushkin I.L., Lomonosov I.V.

14:00–14:30	KL	Razumov V.F.	COLLOIDAL QUANTUM DOTS – A NEW CLASS OF PHOSPHORS
14:30–14:50	IL	Karasik A.A.	DESIGN OF BIOCOMPATIBLE LUMINESCENT SYSTEMS BASED ON TRANSITION METAL COMPLEXES WITH P,N-LIGANDS
14:50–15:10	IL	Fedin V.P.	LUMINESCENT L _n -MOF FOR DETECTION OF BIOLOGICALLY ACTIVE SUBSTANCES AND ENVIRONMENTAL POLLUTANTS
15:10–15:30	IL	Saloutin V.I.	MULTICOMPONENT REACTIONS OF POLYFLUORALKYL 3-OXO ESTERS WITH α -METHYLENE CARBONYL COMPOUNDS AND AMINES AS A NEW TOOL FOR ORGANIC SYNTHESIS Saloutin V.I., Goryaeva M.V., Kushch S.O., Burgart Y.V.
15:30–15:50	IL	Karlov S.S.	TETRYLENES BASED ON COORDINATING LIGANDS: SYNTHESIS, ELECTRONIC STRUCTURE AND REACTIVITY
15:50–16:15			Coffee-break

Hall Lomonosov

Chair: Nifantev N.E., Fedin M.V.

16:15–16:30	OL	Brylev K.A.	HEXANUCLEAR METALLOCLUSTER COMPLEXES – AN ORIGINAL CLASS OF RED LUMINOPHORS
16:30–16:45	OL	Starikov A.G.	ORGANIC SPIN SWITCHES: COMPUTATIONAL MODELING
16:45–17:00	OL	Budyka M.F.	MECHANISM OF THE REVERSIBLE REACTION OF [2+2]-PHOTOCYCLOADDITION: FORWARD CONCERTED REACTION ACCORDING TO THE WOODWARD-HOFFMANN RULES AND REVERSE STEPWISE CYCLE-OPENING REACTION ACCORDING TO THE PREDISSOCIATION MECHANISM
17:00–17:15	OL	Mirochnik A.G.	MOLECULAR DESIGN AND FORMATION OF LUMINESCENT MECHANO- AND CHEMOSENSORY PROPERTIES OF BORON AND LANTHANIDE COMPLEXES
17:15–17:30	OL	Potapov A.S.	SENSOR PROPERTIES OF LUMINESCENT COORDINATION POLYMERS WITH LIGANDS – DERIVATIVES OF 2,1,3-BENZOCHALCOGENADIAZOLES

October 10

SECTION 1

17:30–17:45	OL	Klimochkin Yu.N.	OXIDATIVE TRANSFORMATIONS OF POLYSUBSTITUTED FURANS – A NEW STRATEGY FOR THE SYNTHESIS OF STRUCTURE DIVERSIFIED GABA ANALOGUES
17:45–18:00	OL	Khursan S.L.	AROMATIC NITROSOOXIDES: PHYSICO-CHEMICAL PROPERTIES AND REACTIVITY
18:00–18:15	OL	Chukicheva I.Yu.	ALKYLATION OF PHENOLS AND ANILINE BY TERPENOIDS – A METHOD FOR OBTAINING NEW SUBSTANCES
18:15–18:30	OL	Sedov I.A.	NANOHETEROGENEOUS STRUCTURE OF LIQUIDS AND METHODS OF ITS CHARACTERIZATION
18:30–18:45	OL	Talanov V.M.	PHASE TRANSITIONS AND EMERGENT PHENOMENA IN QUANTUM MATERIALS WITH PYROCHLORE SUBLATTICES
18:45–20:00			Poster session

October 11

SECTION 1

Hall Lomonosov

Chair: Fedin V.P., Fershtat L.L.

9:00–9:30	KL	Antipov E.V.	NOVEL ELECTRODE MATERIALS FOR METAL-ION BATTERIES
9:30–10:00	IL	Oganov A.R.	PREDICTING AND RATIONALIZING NEW COMPOUNDS AND PHENOMENA
10:00–10:20	IL	Fedin M.V.	NEW PERSPECTIVES OF EPR SPECTROSCOPY IN STUDY AND DESIGN OF FUNCTIONAL NANOSTRUCTURES
10:20–10:35	OL	Kolker A.M.	DEEP EUTECTIC SOLVENTS AS CARBON DIOXIDE ABSORBENTS
10:35–10:50	OL	Dybtsev D.N.	METAL-ORGANIC COORDINATION POLYMERS FOR ADSORPTION AND SEPARATION OF LIGHT HYDROCARBONS
10:50–11:05	OL	Zvekov A.A.	ON THE APPLICATION OF THE CONJUGATED REACTIONS METHOD FOR ANTIOXIDANT ACTIVITY ESTIMATION
11:05–11:20	OL	Dementeva O.V.	SURFACTANT ASSOCIATES AS A TEMPLATE: NEW OPPORTUNITIES FOR SYNTHESIS AND FUNCTIONALISATION OF NANOPARTICLES
11:20–11:35	OL	Marakushev S.A.	MODERN DEVELOPMENT OF D.I. MENDELEEV'S CONCEPT: ORIGIN OF DEEP HYDROCARBONS AND THEIR ACCUMULATIONS IN THE EARTH'S CRUST
12:30–14:00			Coffee-break, lunch

Chairs – Full Member of RAS N.T. Kuznetsov, Full Member of RAS E.N. Kablov,
Full Member of RAS A.I. Rudskoy

Section 2

CHEMISTRY AND TECHNOLOGY OF MATERIALS

Time specified in the program,
includes report and answers to questions

October 8

SECTION 2

Hall Zelinsky

Chair: Kuznetsov N.T., Rudskoi A.I.

14:00–14:30	KL	Stolyarova V.L.	OXIDE SYSTEMS AND MATERIALS AT HIGH TEMPERATURES: THERMODYNAMICS, VAPORIZATION, MODELING
14:30–15:00	IL	Bulanov A.D.	CURRENT PROBLEMS OF MODERN CHEMISTRY OF HIGH-PURITY SUBSTANCES
15:00–15:20	IL	Karpov M.I.	MODERN MOLYBDENUM-BASED ALLOYS AND NEW PRODUCTION TECHNOLOGIES
15:20–15:40	IL	Malygin A.A.	CHEMICAL NANOTECHNOLOGY OF MOLECULAR LAYERING: FROM BIRTH TO WIDE INDUSTRIAL IMPLEMENTATION
15:40–16:00	IL	Voloshin Ya.Z.	NEW GENERATION OF MONOATOMIC CLATHROCHELATE CATALYSTS AND HYBRID ORGANO-INORGANIC CATALYTIC MATERIALS BASED ON THEM FOR HIGH-PURITY HYDROGEN AND SYNGAS PRODUCTION
16:00–16:30			Coffee-break

Hall Zelinsky

Chair: Voloshin Ya.Z., Sevostyanov M.A.

16:30–16:45	OL	Korenev S.V.	COMPLEX SALTS CONTAINING PLATINUM (PALLADIUM) AND METALS FROM GROUPS 5 AND 6 OF THE PERIODIC TABLE - PROMISING PRECURSORS FOR NANOSCALE METAL AND METAL-OXIDE SYSTEMS
16:45–17:00	OL	Lavrenova L.G.	STUDY OF SPIN CROSSOVER IN IRON(II) COMPLEXES WITH POLYNITROGENIC LIGANDS
17:00–17:15	OL	Vashurin A.S.	CATALYTIC SYSTEMS BASED ON FRAMEWORK STRUCTURES FOR RSH TO DISULFIDES COUPLING PROCESSES
17:15–17:30	OL	Kovalchukova O.V.	COMPLEX COMPOUNDS OF METALS WITH ORGANIC LIGANDS AS PRECURSORS OF NANO-SIZED OXIDE CATALYSTS

October 8

SECTION 2

17:30–17:45	OL	Usoltsev A.N.	HALIDE COMPLEXES OF BISMUTH AND ANTIMONY: SYNTHESIS, STRUCTURE AND PROPERTIES
17:45–18:00	OL	Faizullin B.A.	NANOSIZED PARTICLES ENGINEERED FROM CU(I) COMPLEXES WITH CYCLIC P,N-LIGANDS FOR INTRACELLULAR ROS GENERATION
18:00–18:15	OL	Akhmadeev B.S.	NANOPARTICULATE CONTRAST AGENTS BASED ON MN(II) AND HEXARENIIUM CLUSTERS: EFFECT OF MORPHOLOGY OF PARTICLES AND THEIR COATING ON CONTRASTING ORGANS AND TISSUE
18:15–18:30	OL	Yambulatov D.S.	NEW TRANSITION METAL COORDINATION POLYMERS WITH DIIMINE AND DIAMINE LIGANDS: SYNTHESIS, STRUCTURE AND PROPERTIES
18:30–18:45	OL	Cherkasova T.G.	STRUCTURES OF BIMETALLIC LANTHANIDE(III)-CHROMIUM(III) COMPLEXES WITH THERMOCHROMIC PROPERTIES

Hall Kurnakov

Chair: Malygin A.A., Spirin M.G.

16:30–16:45	OL	Steblevskaya N.I.	LUMINESCENT MATERIALS BASED ON ORTHOBORATES AND METABORATES OF RARE EARTH ELEMENTS
16:45–17:00	OL	Retivov V.M.	GENERALIZED TECHNOLOGY FOR PRODUCING INORGANIC OPTICALLY ACTIVE MATERIALS
17:00–17:15	OL	Tikhonov G.V.	LIQUID LASER MEDIA BASED ON CARBON TETRACHLORIDE
17:15–17:30	OL	Averkina A.S.	HYBRID POWDER MATERIALS AgI-SiO ₂ : PROMISING REAGENTS FOR ARTIFICIAL PRECIPITATION TECHNOLOGIES
17:30–17:45	OL	Bezrukov A.N.	ANISOTROPIC LUMINESCENT MEDIA IN MICROFLUIDIC CHANNELS: CONTROL OF ORIENTATION AND OPTICAL BEHAVIOR

October 8

SECTION 2

17:45–18:00	OL	Komendo I.Yu.	LIGHT LITHIUM-CONTAINING SCINTILLATORS FOR NEUTRON DETECTION
18:00–18:15	OL	Nikolenko L.M.	DIFFERENT SCENARIOS OF LUMINESCENCE BEHAVIOR IN THE ENSEMBLE OF Mn-DOPED InP COLLOIDAL QUANTUM DOTS
18:15–18:30	OL	Semencha A.V.	FUSIBLE CHALCOGENIDE GLASS - PROMISING MATERIAL FOR CREATION OF OPTICAL COMPONENTS FOR NIR, SWIR AND NWIR
18:30–18:45	OL	Kuznetsov S.V.	HIGH TRANSPARENT CERAMICS BASED ON YTTRIUM-SCANDIUM-ALUMINUM GARNETS DOPED WITH RARE-EARTH ELEMENTS

Hall Nesmeyanov

Chair: Kharanzhevskii E.V., Savilov S.V.

16:30–16:45	OL	Blatov V.A.	GEOMETRICAL-TOPOLOGICAL APPROACHES TO MODELING CRYSTALLINE SUBSTANCES WITH SPECIFIED PROPERTIES
16:45–17:00	OL	Kovalev D.Yu.	STRUCTURE AND PHASE COMPOSITION OF MECHANOSYNTHESISED HIGH ENTROPY ALLOY CoCrFeNiTi AT LONG-TERM HEATING
17:00–17:15	OL	Drozdov A.A.	STRUCTURE FEATURES OF CAST Ni ₃ Al BASED INTERMETALLIC ALLOYS.
17:15–17:30	OL	Bykov V.A.	THE THERMOPHYSICAL PROPERTIES OF Co-CrFeNi HIGH-ENTROPY ALLOY: THE IMPACT OF CHEMICAL SHORT-RANGE ORDER
17:30–17:45	OL	Kolosov V.N.	DEVELOPMENTS OF ICT KSC RAS IN THE FIELD OF TECHNOLOGY OF TANTALUM CAPACITOR POWDERS
17:45–18:00	OL	Likhanov M.S.	CHEMICAL STABILIZATION OF HIGH-PRESSURE INTERMETALLIC COMPOUNDS AS A PATH TO THE SEARCH OF NEW FUNCTIONAL MATERIALS
18:00–18:15	OL	Sanin V.V.	INFLUENCE OF TECHNOLOGY FOR PRODUCING ME-HYDRIDE ALLOYS AB&AB ₅ -TYPES ON HYDROGEN SORPTION PROPERTIES

18:15–18:30	OL	Slautin O.V.	STRUCTURE AND PROPERTIES OF LAYERED METAL-INTERMETALLIDE COMPOSITES OF THE Ti-Fe SYSTEM
18:30–18:45	OL	Fedoraev I.I.	LAVES PHASES IN THE FCC-COBALT ALLOYS DISPERSIVELY HARDENED BY Co ₃ Nb AND Co ₃ Ta PARTICLES
18:30–20:00	Poster session		

October 9

SECTION 2

Hall Zelinsky

Chair: Kablov E.N., Stolyarova V.L.

14:00–14:30	KL	Rempel A.A.	FUNCTIONAL HIGH-ENTROPY MATERIALS
14:30–15:00	IL	Gnedekov S.V.	COMPOSITE COATINGS FORMED ON MAGNESIUM ALLOYS BY IMPREGNATION OF THE PEO-LAYERS WITH FLUOROORGANIC COMPOUNDS
15:00–15:20	IL	Oryshchenko A.S.	MODERN MATERIALS AND TECHNOLOGIES IN SHIPBUILDING AND NUCLEAR POWER ENGINEERING
15:20–15:40	IL	Rumyantseva M.N.	NANOCRYSTALLINE OXIDE MATERIALS FOR SEMICONDUCTOR GAS SENSORS FOR DETECTING BIOMARKERS IN EXHALED AIR
15:40–16:00	IL	Almyasheva O.V.	LOW TEMPERATURE CHEMISTRY OF REFRACTORY OXIDES
16:00–16:30			Coffee-break

Hall Zelinsky

Chair: Retivov V.M., Parfenova L.V.

16:30–16:45	OL	Spirin M.G.	LONG-CHAIN AMINES AS STABILIZING LIGANDS FOR COLLOIDAL QUANTUM DOTS
16:45–17:00	OL	Menshchikov I.E.	DEVELOPMENT OF NEW FUNCTIONAL NANOPOROUS ADSORBENTS USING MACHINE LEARNING METHODS: FROM MODELS TO SYNTHESIS AND CHEMICAL PROCESSES
17:00–17:15	OL	Saveleva A.S.	DEVELOPMENT OF GRANULAR SORBENTS AgLiLSX FOR SEPARATION OF AIR AND PRODUCTION OF OXYGEN
17:15–17:30	OL	Bulychev N.A.	FABRICATION OF COMPOSITE MATERIALS WITH METAL OXIDE NANOPARTICLES SYNTHESIZED IN PLASMA DISCHARGE UNDER ULTRASONIC ACTION
17:30–17:45	OL	Levchenko L.M.	OXIDIZED MESOPOROUS CARBON MATERIALS BASIS FOR OBTAINING SELECTIVE SORBENTS
17:45–18:00	OL	Skripachev I.V.	IMPURITY ABSORPTION IN AVBVI GLASSES FOR FIBER OPTICS
18:00–18:15	OL	Karacharov A.A.	SYNTHESIS OF NEW COMPOSITE NANOMATERIALS BY IMMOBILIZING Au NANOPARTICLES ON THE SURFACE OF SYNTHETIC VALLERIITES AND STUDYING THEIR PHOTOCATALYTIC PROPERTIES

October 9

SECTION 2

18:15–18:30	OL	Drozd D.D.	CDZNSES QUANTUM DOTS: REPRODUCIBLE FABRICATION AND CONTROL OF THE OPTICAL PROPERTIES
18:30–18:45	OL	Vorozhtsov V.A.	MASS SPECTROMETRUC STUDY OF VAPORIZATION PROCESSES AND THERMODYNAMIC PROPERTIES IN THE CS ₂ O-AL ₂ O ₃ SYSTEM AT HIGH TEMPERATURES

Hall Kurnakov

Chair: Rumyantseva M.N., Golubeva O.Yu.

16:30–16:45	OL	Bolbasov E.N.	FLOURPOLYMER MATERIALS AND DEVICES FOR RECONSTRUCTIVE SURGERY
16:45–17:00	OL	Koroleva M.S.	INFLUENCE OF DOPANT ON THE CONDUCTIVITY OF SUBSTITUTED BISMUTH NIOBATES WITH A PYROCHLORE-TYPE STRUCTURE
17:00–17:15	OL	Buzanov G.A.	PHASE EQUILIBRIA IN THE Li-Mn-Eu-O SYSTEM: THE CONCENTRATIONAL TETRAHEDRON
17:15–17:30	OL	Mateishina Yu.G.	RESEARCH OF THE TRANSPORT PROPERTIES OF COMPOSITES BASED ON SUBSTITUTED AMMONIUM TETRAFLUOROBORATES AND NANODIAMONDS
17:30–17:45	OL	Ivanov I.L.	DIFFUSION AND SURFACE EXCHANGE OF OXYGEN AND WATER IN PEROVSKITE-LIKE COMPLEX OXIDES
17:45–18:00	OL	Morozov A.V.	STUDY OF CHEMICAL COMPATIBILITY OF GALLZO SOLID ELECTROLYTE AND HIGH-ENERGY DENSITY CATHODES BASED ON LI-RICH LAYERED OXIDES
18:00–18:15	OL	Saenko E.V.	STRUCTURAL MODIFICATION OF MANGANESE OXIDES (III, IV) DURING SYNTHESIS OF SELECTIVE SORBENTS
18:15–18:30	OL	Tarasova N.A.	LAYRED PEROVSKITES BASED ON BaLaInO ₄ AS PROMISING MATERIALS FOR ELECTROCHEMICAL DEVICES IN DISTRIBUTED ENERGY

Hall Nesmeyanov

Chair: Blatov V.A., Mustafina A.R.

16:30–16:45	OL	Kharanzhevskii E.V.	CHEMICAL-PHYSICAL PRINCIPLES OF WEAR ELIMINATION DURING SLIDING FRICTION WITHOUT LUBRICATION
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October 9

SECTION 2

16:45–17:00	OL	Gavrilova N.N.	SYNTHESIS OF MOLYBDENUM, TUNGSTEN, AND VANADIUM POLYOXOMETALLATE DISPERSIONS FOR CATALYTIC APPLICATION
17:00–17:15	OL	Yurev A.A.	FEATURES OF THE STRUCTURE OF THE BORON-OXYGEN GRID IN THE MELT $x\text{Na}_2\text{O}-(1-x)\text{B}_2\text{O}_3$ BASED ON AB INITIO MOLECULAR DYNAMICS DATA
17:15–17:30	OL	Likhatskii M.N.	NEW TWO-DIMENSIONAL MIXED-LAYER SULFIDE-HYDROXIDE MATERIALS: SYNTHESIS ADVANCES, FEATURES, PROSPECTIVE APPLICATIONS
17:30–17:45	OL	Adamchik S.A.	PREPARATION OF HIGH-PURITY ISOTOPICALLY ENRICHED MONOSILANES AND MONOGERMANES AND STUDY OF THEIR IMPURITY COMPOSITION
17:45–18:00	OL	Krasnikov D.V.	PREPARATION OF SINGLE LAYER GRAPHENE MONOCRYSTALS BY BOLUAR REACTION
18:00–18:15	OL	Gubanova N.N.	SYNTHESIS AND RESEARCH OF FUNCTIONAL MATERIALS BASED ON PALLADIUM NANOPARTICLES
18:15–18:30	OL	Kuchkaev A.M.	NEW APPROACHES TO THE FUNCTIONALIZATION OF FEW-LAYER BLACK PHOSPHORUS WITH ORGANIC SUBSTRATES AND COVALENT P-C BOND FORMATION
18:30–20:00			Poster session

October 10

SECTION 2

Hall Zelinsky

Chair: Rempel A.A., Gnedenkov S.V.

14:00–14:30	KL	Kuznetsov A.N.	STRATEGIES TOWARDS OBTAINING NOVEL GROUP 10 METAL-BASED INTERMETALLICS WITH COMPLEX ARCHITECTURES
14:30–15:00	IL	Makarov A.V.	ADVANCED TECHNOLOGIES OF HARDENING AND REPAIR OF METAL SURFACES FOR ENSURING TECHNOLOGICAL SOVEREIGNTY OF THE RUSSIAN FEDERATION IN METALLURGY AND MACHINE BUILDING
15:00–15:20	СП	ADVIN company	DESKTOP DEVICES WITH EXTENDED FUNCTIONALITY FROM ADVIN - TREND OR NEW TECHNOLOGIES?
15:20–15:40	IL	Tolstoi V.P.	LAYER-BY-LAYER CHEMICAL ASSEMBLY OF NANOMATERIALS INVOLVING REAGENT SOLUTIONS: FROM THE FIRST EXPERIMENTS TO PRACTICAL APPLICATION
15:40–16:00	IL	Savilov S.V.	PHYSICO-CHEMISTRY OF CELLULOSE-BASED NANOSTRUCTURES
16:00–16:30			Coffee-break

Hall Zelinsky

Chair: Tolstoi V.P., Korenev S.V.

16:30–16:45	OL	Golubeva O.Yu.	NANOARCHITECTONICS OF LAYERED SILICATES AS A BASIS FOR THE CREATION OF NEW FUNCTIONAL MATERIALS
16:45–17:00	OL	Shcherbakova G.I.	ELEMENTOXANE ALUMOXANES – PRECURSORS OF HIGH-HEAT-RESISTANT CERAMIC COMPOSITES
17:00–17:15	OL	Mashkovtsev M.A.	TECHNOLOGIES FOR PRODUCING POWDER AND CERAMIC MATERIALS BASED ON ZIRCONIUM DIOXIDE FOR AIRCRAFT ENGINE BUILDING, ENERGY AND MEDICINE
17:15–17:30	OL	Kurlov A.S.	PECULIARITIES OF PRODUCTION OF CERAMICS FROM NANOCRYSTALLINE POWDERS OF TRANSITION METAL CARBIDES
17:30–17:45	OL	Markov M.A.	A PROMISING TECHNOLOGY FOR PRODUCING PRODUCTS OF COMPLEX SHAPE FROM HEAT-RESISTANT CERAMIC MATERIAL BASED ON SiC

October 10

SECTION 2

17:45–18:00	OL	Shishkin R.A.	COMPLEX PEROVSKITE OXIDES AS A PROSPECTIVE THERMAL BARRIER COATINGS
18:00–18:15	OL	Valeeva A.A.	PRODUCTION OF NIOBIUM NANOCRYSTALLINE CARBIDE BY ELECTROCHEMICAL METHOD
18:15–18:30	OL	Istomina E.I.	CARBOSILICOTHERMAL SYNTHESIS OF SILICON-CONTAINING MAX PHASES

Hall Kurnakov

Chair: Emelyanenko A.M., Kovalchukova O.V.

16:30–16:45	OL	Mustafina A.R.	DEVELOPMENT OF CONTRAST AND THERAPEUTIC AGENTS BY INTRODUCING PARAMAGNETIC MANGANESE(II) IONS INTO SILICA NANOPARTICLES
16:45–17:00	OL	Parfenova L.V.	BIOACTIVE ORGANIC COATINGS FOR METAL IMPLANTS
17:00–17:15	OL	Sevostyanov M.A.	PROSPECTS FOR THE USE OF TITANIUM ALLOYS FOR THE MANUFACTURE OF MEDICAL IMPLANTS
17:15–17:30	OL	Knotko A.V.	APPLICATION OF ATOMISTIC CALCULATIONS FOR VARIOUS CA CONTAINING PHOSPHATES
17:30–17:45	OL	Goldberg M.A.	MESOPOROUS HYDROXYAPATITE POWDERS
17:45–18:00	OL	Evdokimov P.V.	PERSONALISED HETEROGENEOUS-STRUCTURED OSTEOINDUCTIVE BIOCERAMIC BONE-GRAFTS OF COMPLEX CHEMICAL COMPOSITION AND ARCHITECTURE BASED ON HEAVILY-DOPED STABILIZED GLASERITE-LIKE PHASES
18:00–18:15	OL	Suslova E.V.	NEW LN ₃₊ BASED CONTRAST AGENTS FOR PHOTON-COUNTING COMPUTED TOMOGRAPHY
18:15–18:30	OL	Dubinets N.O.	MULTISCALE MODELING OF THE STRUCTURE AND PROPERTIES OF LAYERS AND INTERFACES IN OLED

Hall Nesmeyanov

Chair: Almyasheva O.V., Vashurin A.S.

16:30–16:45	OL	Emelyanenko K.A.	FABRICATION OF EXTREME WETTABILITY COATINGS FOR CORONA DISCHARGE LOSSES REDUCTION
16:45–17:00	OL	Dyachkova T.P.	COMPOSITE MATERIALS BASED ON HYBRID CARBON NANOSTRUCTURES

October 10

SECTION 2

17:00–17:15	OL	Lezhnin N.V.	SOLID-STATE FRICTION STIR BASED METAL ADDITIVE TECHNOLOGIES
17:15–17:30	OL	Mukanov S.K.	PHASE FORMATION BY ELECTROSPARK TREATMENT WITH FUSIBLE ELECTRODES
17:30–17:45	OL	Shapagina N.A.	FORMATION OF INHIBITED POLYMER FILMS ON DIFFERENT CONSTRUCTION METALS BY CATHODE DEPOSITION
17:45–18:00	OL	Danilov E.A.	GRAPHENE-LIKE MATERIALS VIA ULTRASONIC TREATMENT OF NATURAL GRAPHITE SUSPENSIONS
18:00–18:15	OL	Sheremet E.S.	APPLICATION OF LASER PROCESSING FOR FABRICATION OF BIOCOMPATIBLE/Biodegradable FLEXIBLE ELECTRONICS
18:15–18:30	OL	Lazoryak B.I.	FERROELECTRICAL AND NONLINEAR OPTICAL PROPERTIES OF VANADATE-NIOBATES
18:30–20:00			Poster session

October 11

SECTION 2

Hall Zelinsky

Chair: Kuznetsov A.N., Bulanov A.D.

9:00–9:30	KL	Shevelkov A.V.	DEVELOPMENT OF ENVIRONMENTALLY FRIENDLY THERMOELECTRIC MATERIALS BASED ON COMPLEX COPPER SULFIDES
9:30–10:00	IL	Sinebryukhov S.L.	ANODE MATERIALS BASED ON COPPER-DOPED SODIUM TRITITANATE WITH A HIERARCHICAL STRUCTURE FOR SODIUM-ION BATTERIES
10:00–10:30	IL	Simonenko E.P.	PROMISING ULTRAHIGH-TEMPERATURE CERAMIC MATERIALS
10:30–11:00	IL	Emelyanenko A.M.	DEVELOPMENT OF TECHNOLOGY AND CREATION OF MATERIALS TO COMBAT THE SPREAD OF BACTERIAL INFECTIONS AND THEIR TESTING IN A HOSPITAL CONDITION

Hall Zelinsky

Chair: Shevelkov A.V., Makarov A.V.

11:00–11:15	OL	Kozlov I.A.	PROBLEMS OF IMPORT SUBSTITUTION OF FUNCTIONAL MATERIALS IN THE NATIONAL AIRCRAFT INDUSTRY
11:15–11:30	OL	Krasilin A.A.	MULTIFUNCTIONAL HYDROSILICATE NANOSCROLLS
11:30–11:45	OL	Maslova M.V.	SORBENT BASED ON ALUMINUM HYDROXIDE FOR SELECTIVE EXTRACTION OF LITHIUM FROM AQUEOUS MEDIA WITH HIGH SALINITY
12:30–14:00			Coffee-break, lunch

Chairs – Full Member of RAS K.V. Grigorovich,
Corresponding Member of RAS O.V. Zayakin

Section 3

PHYSICO-CHEMICAL BASES OF METALLURGICAL PROCESSES

Time specified in the program,
includes report and answers to questions

October 8

SECTION 3

Hall Bardin

Chair: Grigorovich K.V., Sheshukov O.Yu.

14:00–14:30	KL	Grigorovich K.V.	MODERN METHODS OF CONTROL AND ADJUSTMENT OF STEEL PRODUCTION TECHNOLOGIES
14:30–14:50	IL	Sheshukov O.Yu.	FORMATION OF A RATIONAL SLAG COMPOSITION IN THE LADLE-FURNACE UNIT IN ORDER TO IMPROVE DESULFURIZATION AND REDUCE THE CONSUMPTION OF SLAG-FORMING MATERIALS DEPENDING ON THE STEEL GRADE
14:50–15:10	IL	Dagman A.I.	INFLUENCE OF MICROALLOYING ELEMENTS ON PHASE PRECIPITATION DURING THERMAL DEFORMATION OF HIGH-STRENGTH LOW-CARBON STEELS
15:10–15:30	IL	Kudashov D. V.	MATERIALS SCIENCE APPROACH TO THE DEVELOPMENT OF NEW TECHNOLOGIES AND STEELS FOR PIPE PRODUCTION
15:30–15:50	IL	Muntin A.V.	TECHNOLOGICAL ASPECTS OF PRODUCTION OF STEEL STRIP OF VARIOUS SECTIONS AT FOUNDRY-ROLLING COMPLEXES
15:50–16:15			Coffee-break

Hall Bardin

Chair: Dagman A.I., Muntin A.V.

16:15–16:30	OL	Somov S.A.	MODERN TECHNOLOGIES OF METAL SMELTING WITH TVO IN HEAVY-DUTY ARC STEELMAKING FURNACES
16:30–16:45	OL	Mikhailova L.Yu.	PHYSICAL-CHEMICAL AND TECHNOLOGICAL BASICS OF MELTING SEMI-PRODUCTS IN ARC STEEL MELTING FURNACE UNDER MAGNESIA SLAG
16:45–17:00	OL	Metelkin A.A.	DETERMINATION AND STUDY OF THE MAIN DIRECTIONS FOR THE REMOVAL OF CARBON FROM THE MELT IN A CIRCULATING VACUUM UNIT
17:00–17:15	OL	Murysev V.A.	INDUSTRIAL STUDIES OF DEEP DESULFURIZATION OF STEEL PIPE GRADES IN THE CONDITIONS OF THE FOUNDRY AND ROLLING COMPLEX OF VSW
17:15–17:30	OL	Upolovnikova A.G.	REM OXIDES AND THEIR INFLUENCE ON THE PHYSICAL AND CHEMICAL PROPERTIES OF LADLE METALLURGY SLAG

October 8

SECTION 3

17:30–17:45	OL	Katolikov V.D.	INFLUENCE OF THE QUALITY OF CALCIUM-CONTAINING WIRE FILLER ON THE CONTENT AND COMPOSITION OF OXIDE NON-METAL INCLUSIONS IN THE PRODUCTION OF HIGH-CARBON STEEL
17:45–18:00	OL	Nikitin M.S.	IMPROVEMENT OF STEEL MODIFYING TECHNOLOGY IN OUT-OF-FURNACE PROCESSING
18:00–18:15	OL	Khoroshilov A.D.	THERMODYNAMIC MODELING OF THE PROCESS OF MODIFICATION OF NON-METALLIC INCLUSIONS WITH CALCIUM IN LOW-ALLOY STEEL DEOXIDIZED WITH ALUMINUM
18:15–18:30	OL	Shartdinov R.R.	PHYSICO-CHEMICAL PROPERTIES OF DESULFURIZATION PERIOD SLAGS OF THE AOD PROCESS
18:30–18:45	OL	Kel I.N.	THE USING BORON-CONTAINING MATERIALS IN THE SMELTING OF STAINLESS STEEL BY THE AOD PROCESS
18:30–20:00			Poster session

October 9

SECTION 3

Hall Bardin

Chair: Smirnov L.A., Efron L.I.

14:00 –14:30	KL	Elanskii D.G.	BEHAVIOUR OF CHEMICAL ELEMENTS DURING STEEL MELTING IN ARC STEEL FURNACES
14:30 –14:50	IL	Efron L.I.	FORMATION OF STRUCTURE AND PROPERTIES OF WELDED JOINTS OF STEEL PIPES
14:50 –15:10	IL	Bazhin V.Yu.	FEATURES OF INTERMETALLIDE FORMATION WITH TRANSITION AND RARE-EARTH METALS
15:10 –15:30	IL	Chumanov I.V.	METAL REFINING AT ESR
15:30 –15:50	IL	Tkacheva O.	PHYSICOCHEMICAL PROPERTIES OF FLUORIDE MELTS, PROMISING FOR NUCLEAR POWER
15:50 –16:15			Coffee-break

Hall Bardin

Chair: Bazhin V.Yu., Chumanov I.V.

16:15 –16:30	OL	Vorozheva E.L.	MODELING AND SIMULATION OF METALLURGICAL PROCESSES IN THE DEVELOPMENT OF STEEL FOR CASING PIPES
16:30 –16:45	OL	Gamanyuk S.B.	INVESTIGATION OF THE EFFECT OF REFILLING THE MELT INTO THE PROFITABLE PART OF THE INGOT ON THE SOLIDIFICATION PROCESS AND STRUCTURE FORMATION
16:45 –17:00	OL	Zorin I.V.	FORMATION OF A LOW-ALLOYED SUBLAYER WITH A BAINITE STRUCTURE FOR SURFACING OF METALLURGICAL EQUIPMENT PARTS
17:00 –17:15	OL	Kirilichev M.V.	STUDY OF MICROLIQUATION HETEROGENEITY AND DISTRIBUTION OF CHEMICAL ELEMENTS IN LOW-ALLOYED STEEL INGOTS AND CONTINUOUSLY CAST BILLETS
17:15 –17:30	OL	Filatova D.G.	ANALYTICAL METHODS IN CHEMISTRY FOR SOLVING METALLURGICAL PRODUCTION PROBLEMS: CONTROL OF TECHNOLOGICAL PROCESSES AND PRODUCT QUALITY
17:30 –17:45	OL	Kuzmin E.V.	INVESTIGATION OF EXPLOSION WELDING TECHNOLOGY WITH SIMULTANEOUS EXPOSURE TO ULTRASOUND TO CREATE NEW COMPOSITE MATERIALS
17:45 –18:00	OL	Roldugina A.S.	THE RAPID HEATING EFFECT ON THE TEXTURE FORMATION IN THE HIGH-PERMEABILITY GRAIN-ORIENTED STEEL

October 9

SECTION 3

18:00 –18:15	OL	Zhitenev A.I.	MODELING OF FORMATION OF NON-METALLIC INCLUSIONS DURING THE MELTING OF DUPLEX STAINLESS STEELS IN AN OPEN INDUCTION FURNACE
18:15 –18:30	OL	Parygina S.A.	IMPROVING THE QUALITY OF CRYOGENIC STEEL
18:30 –18:45	OL	Grigoreva N.A.	NICKEL AND COBALT EXTRACTION FROM LEACHING SOLUTIONS OF OXIDIZED NICKEL ORES

October 10

SECTION 3

Hall Bardin

Chair: Pyshmintsev I.Yu., Logacheva A.I.

14:00 – 14:30	KL	Pyshmintsev I. Yu.	THE EFFECT OF HYDROGEN ON THE MECHANICAL PROPERTIES OF PIPE STEELS
14:30 – 14:50	IL	Logacheva A.I.	MODERN DIRECTIONS OF POWDER METALLURGY
14:50 – 15:10	IL	Bazaleeva K.O.	INFLUENCE OF SLM PROCESS TECHNOLOGICAL PARAMETERS ON TEXTURE OF THE AUSTENITIC ALLOY 03Cr17Ni14Mo3
15:10 – 15:30	IL	Samokhin A.V.	SYNTHESIS AND PROCESSING OF TUNGSTEN-BASED POWDERS IN THERMAL PLASMA
15:30 – 15:50	IL	Babenko A.A.	PHYSICAL AND CHEMICAL BASICS OF CREATION OF INNOVATIVE TECHNOLOGICAL SOLUTIONS FOR THE PRODUCTION OF NEW GENERATION STRUCTURAL STEEL WITH A COMPLEX OF INCREASED PROPERTIES
15:50 – 16:15			Coffee-break

Hall Bardin

Chair: Samokhin A.V., Bazaleeva K.O.

16:15 – 16:30	OL	Umanskii A.A.	INVESTIGATION OF THE EFFICIENCY OF REFINING RAIL STEEL FROM NON-METALLIC INCLUSIONS WHEN VARYING THE PARAMETERS OF INERT GAS PURGING IN A STEEL LADLE
16:30 – 16:45	OL	Krylov A.P.	DEVELOPMENT OF TECHNOLOGY FOR THE USE OF BUCKET SLAG BRIQUETTES AS A PARTIAL REPLACEMENT FOR LIME IN STEEL SMELTING IN EAF
16:45 – 17:00	OL	Rigina L.G.	DEVELOPMENT OF A NEW METHODOLOGY FOR EXPERIMENTAL SMELTING
17:00 – 17:15	OL	Logachev I.A.	EVOLUTION OF THE STRUCTURE AND PROPERTIES OF MATERIAL FROM AJK ALLOY OBTAINED BY THE METHOD OF SELECTIVE LASER ALLOYING IN COMBINATION WITH POST-PROCESSING
17:15 – 17:30	OL	Fedorov A.S.	QUALITY MANAGEMENT OF DUPLEX STAINLESS STEELS
17:30 – 17:45	OL	Panin P.V.	METAL POWDER COMPOSITIONS OF HEAT-RESISTANT INTERMETALLIC ALLOYS BASED ON TITANIUM ALUMINIDES FOR ADDITIVE MANUFACTURING

October 10

SECTION 3

17:45 –18:00	OL	Ivanov I.A.	DEVELOPMENT OF HIGH-STRENGTH HEAT-RESISTANT MATERIAL FOR THE HALLS OF PROMISING VVER-SKD TYPE REACTORS
18:00 –18:15	OL	Em A.Yu.	FORMATION OF NON-METALLIC INCLUSIONS DURING BUCKET PROCESSING OF 08H18N10T GRADE STEEL
18:15 –18:30	OL	Beltyukov A.L.	TEMPERATURE AND CONCENTRATION DEPENDENCES OF VISCOSITY OF Fe-(B,Si) AND Co-(B,-Si) MELTS
18:30 –18:45	OL	Utkina K.N.	COMPOSITIONAL APPROACH TO PREVENT NITROGEN POROSITY OF AUSTENITIC-FERRITIC STEEL INGOTS

October 11

SECTION 3

Hall Bardin

Chair: Zayakin O.V., Manashev I.R.

9:00 –9:30	KL	Zayakin O.V.	PHYSICO-CHEMICAL FEATURES OF THE DEVELOPMENT NEW GENERATION OF FERROALLOYS
9:30 –10:00	IL	Dmitriev A.N.	PHYSICO-CHEMICAL AND THERMOPHYSICAL FOUNDATIONS OF DIGITAL TWINS OF AGLO-COKE-BLAST FURNACE PRODUCTION AND THEIR APPLICATION IN PRACTICE
10:00 –10:20	IL	Zagainov S.A.	IMPROVING THE QUALITY OF IRON ORE FEED-STOCK IS A PROMISING FOCUS AREA FOR RAISING THE EFFICIENCY OF BLAST FURNACE IRON-MAKING
10:20 –10:40	IL	Kozhukhov A.A.	STUDYING DIRECT PROCESSES RESTORATION OF IRON ORE CONCENTRATES IN A HYDROGEN ENVIRONMENT
10:40 –11:00	IL	Manashev I.R.	SHS TECHNOLOGY FOR PROCESSING DUSTS OF FERROALLOY PRODUCTION

Hall Bardin

Chair: Dmitriev A.N., Kozhukhov A.A.

11:00 –11:15	OL	Bigeev V.A.	SCHEME FOR PRODUCING FERRONICKEL AND CAST IRON FROM ORE OF THE SAKHARINSKOE DEPOSIT BY COMBINED CARBON-HYDROGEN METHOD
11:15 –11:30	OL	Sudin V.V.	ANALYSIS OF FRACTURES IN LOW-ALLOY STEELS USING COMPUTER VISION
11:30 –11:45	OL	Podusovskaya N.V.	INVESTIGATION OF THE LEAD AND ZINC SELECTIVE EXTRACTION POSSIBILITY FROM EAF DUST IN A REDUCING MEDIUM
11:45 –12:00	OL	Chikova O.A.	STRUCTURAL TRANSITIONS IN LIQUID COMPLEX CAST IRONS Fe-25Cr-3C AND TEMPERATURE TREATMENT OF THE MELT
12:00 –12:15	OL	Pogodin A.M.	DEVELOPMENT OF A MATHEMATICAL MODEL OF THE FORMATION OF NON-METALLIC INCLUSIONS DURING THE LADLE PROCESSING OF METAL

October 11

SECTION 3

12:15 –12:30	OL	Vyaznikova E.A.	STUDY OF THE INFLUENCE OF SINTER BASICITY ON STRUCTURE AND METALLURGICAL PROPERTIES
12:30 –14:00			Coffee-break, lunch

Section 4

**RESOURCE SAVING,
ENVIRONMENTAL SAFETY AND
CHEMICAL-TECHNOLOGICAL
PROCESSES IN CIRCULAR
ECONOMY**

Time specified in the program,
includes report and answers to questions

October 8

SECTION 4

Hall Ipatiev

Chair: Leontev L.I.

14:00–14:30	KL	Leontev L.I.	TASKS OF SCIENTIFIC AND TECHNOLOGICAL SUPPORT OF ENVIRONMENTALLY SAFE INTEGRATED PROCESSING OF MINERAL AND MAN-MADE RAW MATERIALS IN ORDER TO DEVELOP A CLOSED-CYCLE ECONOMY
14:30–14:50	IL	Zaouak Amira	APPLICATION OF RADIATION TECHNOLOGY IN WASTEWATER TREATMENT FOR ENVIRONMENTAL REMEDIATION
14:50–15:10	IL	Guseva T.V.	THE ROLE OF BEST AVAILABLE TECHNIQUES IN ENHANCING INDUSTRIAL RESOURCE EFFICIENCY AND ENVIRONMENTAL PERFORMANCE
15:10–15:30	IL	Startseva O.P.	METHODOLOGICAL FEATURES OF DEVELOPING REGIONAL PROGRAMS ON CIRCULAR ECONOMY IN THE CONTEXT OF SUSTAINABLE DEVELOPMENT
15:30–15:50	IL	Lubyanoi D.A.	RESOURCE SAVING, ENVIRONMENTAL SAFETY, TECHNOLOGICAL PROCESSES AND CLOSED CYCLE ECONOMICS OF METALLURGICAL WASTE PROCESSING IN ACID INDUCTION FURNACES IN THE SIBERIAN REGION
15:50–16:15			Coffee-break

Hall Ipatiev

16:15–16:30	OL	Udoratina E.V.	INNOVATIVE TECHNOLOGY OF COMPLEX PROCESSING OF CONIFEROUS WOOD GREENS INTO BIOLOGICALLY ACTIVE SUBSTANCES AND MATERIALS APPLICABLE IN PLANT CULTIVATION, ANIMAL HUSBANDRY AND MEDICINE
16:30–16:45	OL	Shvetsova-Shilovskaya T.N.	SYSTEM OF ESTIMATION OF RELIABILITY INDICATORS OF PRODUCTION OBJECTS TURNOVER
16:45–17:00	OL	Potemkin D.I.	HYDROGEN PRODUCTION IN THE RUSSIAN FEDERATION: CURRENT STATE AND PROSPECTIVE TRENDS
17:00–17:15	OL	Ovsyannikov A.O.	CREATION OF THE CLOSED CYCLE OF ZINC CONSUMPTION IN RUSSIA
17:15–17:30	OL	Kudryavtseva T.Yu.	EXPERIMENTAL AND THEORETICAL ANALYSIS OF THE PROPERTIES OF AN ENVIRONMENTALLY FRIENDLY SORBENT BASED ON THE PROCESSING OF AGRICULTURAL WASTE

October 8

SECTION 4

17:30–17:45	OL	Ozerova E.M.	SOLID MUNICIPAL WASTE IN A CYCLE ECONOMY
17:45–18:00	OL	Zheldakov D.Yu.	PHYSICO-CHEMICAL ENGINEERING OF DURABLE ENVIRONMENTALLY FRIENDLY CERAMIC BUILDING MATERIALS
18:00–18:15	OL	Shilova O.A.	DEVELOPMENT OF EFFECTIVE ENVIRONMENTALLY FRIENDLY ANTIFOULING COATINGS
18:15–18:30	OL	Erofeev V.T.	PHYSICO-CHEMICAL ENGINEERING OF POWDER-ACTIVATED COMPOSITES BASED ON MINERAL BINDERS

October 9

SECTION 4

Hall Ipatiev

Chair: Meshalkin V.P.

14:00–14:30	KL	Meshalkin V.P.	SCIENTIFIC BASIS OF ENGINEERING OF RESOURCE-ENERGY EFFICIENT LOW-WASTE DIGITALISED CHEMICAL-TECHNOLOGICAL SYSTEMS
14:30–14:50	IL	Skobelev D.O.	EVOLUTION OF TECHNOLOGIES: INCREASING INDUSTRIAL RESOURCE EFFICIENCY
14:50–15:10	IL	Kharuzin A.V.	MANAGEMENT OF SECONDARY RESOURCES IN THE OPERATIONS OF A METALLURGICAL ENTERPRISE
15:10–15:30	IL	Chistyakova T.B.	INNOVATIVE TECHNOLOGIES FOR DESIGNING DIGITAL INFORMATION MODELS OF CHEMICAL-TECHNOLOGICAL OBJECTS WITH WASTE RECYCLING
15:30–15:50	IL	Nikolaev Yu.A.	WORKING-OFF OF THE ANAMMOX BIOTECHNOLOGY FOR NITROGEN REMOVAL FROM WASTEWATER USING LABORATORY BIOREACTORS
	IL	Menshutina N.V.	SUPERCRITICAL TECHNOLOGIES FOR OBTAINING INNOVATIVE MATERIALS
15:50–16:15			Coffee-break

Hall Ipatiev

16:15–16:30	OL	Baeshov A.B.	CATALYTIC REDUCTION OF SELENATE IONS FROM WASTE SOLUTIONS AND WASTEWATER IN THE PRESENCE OF TITANIUM (IV) IONS
16:30–16:45	OL	Berberova N.T.	THE COMBINATION OF TECHNOLOGICAL PROCESSES FOR REMOVING SULFUR-CONTAINING WASTE FROM LIQUID FUELS AND THEIR CONVERSION INTO PRACTICALLY USEFUL ORGANIC SULFUR DERIVATIVES
16:45–17:00	OL	Tsvetnikov A.K.	CHEMICAL, TECHNOLOGICAL AND ENVIRONMENTAL ASPECTS OF THE PRODUCTION OF ULTRAFINE POLYTETRAFLUOROETHYLENE FROM FLUOROPLAST-4 WASTE AND ENERGY-RESOURCE SAVING MATERIALS BASED ON IT

October 9

SECTION 4

17:00–17:15	OL	Averina Yu.M.	DEVELOPMENT OF MATHEMATICAL MODEL OF CLOSED WATER CIRCULATION SYSTEM FOR CHEMICAL PRODUCTION WASTEWATER
17:15–17:30	OL	Brodskii V.A.	THE USE OF EXTRACTION-ELECTROLYSIS TECHNOLOGY TO ISOLATE VALUABLE COMPONENTS FROM INDUSTRIAL WASTE AND POOR ORES
17:30–17:45	OL	Kozlovskii R.A.	POTENTIAL OF THE PRODUCTION OF L-LACTIC ACID AND ENVIRONMENTALLY SAFE CHEMICAL PRODUCTS BASED ON IT
17:45–18:00	OL	Dyubanov V.G.	THE MAIN DIRECTIONS OF THE RECYCLING OF THE WAELEZ SLAG FROM THE ELECTRIC ARC FURNACE DUST PROCESSING
18:00–18:15	OL	Yakubov R.N.	FORECASTING THE CHEMICAL-TECHNOLOGICAL PROCESS OF IN-SITU WATER SHUT-OFF IN OIL-PRODUCING WELLS THROUGH HYDRODYNAMIC MODELING
18:15–18:30	OL	Sokolova Yu.V.	RECYCLING OF SPENT LITHIUM-ION BATTERIES FOR HOUSEHOLD APPLIANCES AND ELECTRONIC DEVICES
18:30–20:00			Poster session

October 10

SECTION 4

Hall Ipatiev

Chair: Meshalkin V.P.

14:00–14:30	KL	Buryak A.K.	THE METHODOLOGY OF CHROMATO – MASS-SPECTROMETRIC DIAGNOSTICS OF ENERGY EFFICIENCY AND ENVIRONMENTAL SAFETY OF CHEMICAL TECHNOLOGIES
14:30–14:50	IL	Lenchenkova L.E.	THEORETICAL AND EXPERIMENTAL JUSTIFICATION OF ENERGY AND RESOURCE EFFICIENT TECHNOLOGY FOR ENHANCING OIL RECOVERY FROM HIGH WATER CUT WELLS WITH ORGANO-HYBRID SEALING COMPOSITIONS
14:50–15:10	IL	Vasilev A.V.	SYSTEMATIZATION OF ECOLOGICAL CHARACTERISTICS OF POLYMER-INORGANIC COMPOSITES
15:10–15:30	IL	Moshev E.R.	ENGINEERING OF NATIONAL SOFTWARE FOR ENVIRONMENTAL SAFETY MANAGEMENT OF CHEMICAL INDUSTRIES
15:30–15:50	IL	Kolmakov A.G.	INNOVATIVE ENVIRONMENTALLY SAFE TITANIUM ALLOYS
15:50–16:15			Coffee-break

Hall Ipatiev

16:15–16:30	OL	Shumova N.V.	INCUBATION OF CELLS IN BULK HYDROGEL WITH A NETWORK OF ARTIFICIAL MICROCHANNELS FOR OXYGEN SUPPLY AND CARBON DIOXIDE REMOVAL
16:30–16:45	OL	Kurdyumov V.R.	ZERO LIQUID DISCHARGE AT THE NON-FERROUS METALLURGY ENTERPRISE
16:45–17:00	OL	Naimanbaev M.A.	PROCESSING ZINC-CONTAINING DUSTS OF FERROUS METALLURGY WITH INDUSTRIAL PRODUCTS OF THE NON-FERROUS INDUSTRY – A PATH TO RESOURCE SAVING
17:00–17:15	OL	Bobkov V.I.	ENGINEERING OF ENERGY AND RESOURCE EFFICIENT ENVIRONMENTALLY SAFE CHEMICAL-TECHNOLOGICAL SYSTEM FOR PROCESSING WASTE ORE RAW MATERIALS
17:15–17:30	OL	Knyazev M.Yu.	CLOSED CYCLE TOLUENE PROCESSING IN CHEMICAL-TECHNOLOGICAL PROCESSES OF LOW-TONNAGE CHEMISTRY

October 10

SECTION 4

17:30–17:45	OL	Prosvirkin S.P.	STUDIES OF THE PROCESS OF SMELTING CAST IRON IN A ROTARY-INCLINED FURNACE FROM IRON-CONTAINING WASTE FROM METALLURGICAL PRODUCTION
17:45–18:00	OL	Kulikova T.V.	PERSISTENT ORGANIC POLLUTANTS: PROBLEMS OF ENVIRONMENTAL POLLUTION AND TECHNOLOGICAL METHODS OF NEUTRALIZATION
18:00–18:15	OL	Fazullin D.D.	ENGINEERING OF HYDROGEN-AIR FUEL CELLS FOR ENVIRONMENTALLY SAFE VEHICLES
18:15–18:30	OL	Klimentenok G.G.	THE CONCEPT OF WASTE-FREE PROCESSING OF MINERAL AND MAN-MADE RAW MATERIALS OF THE NORTHERN URALS IN AN INTEGRATED MANNER
18:30–20:00			Poster session

October 11

SECTION 4

Hall Ipatiev

Chair: Meshalkin V.P.

9:00–9:30	KL	Kozlov P.A.	PHYSICO-CHEMICAL FUNDAMENTALS, RESEARCH DEVELOPMENT AND IMPLEMENTATION OF RESOURCE-ENERGY-EFFICIENT ENVIRONMENTALLY SAFE WASTE PROCESSING WITH NON-FERROUS AND RARE METALS EXTRACTION
9:30–10:00	IL	Zharov V.S.	ALGORITHMIZATION OF THE PROCESS OF MANAGING THE DEVELOPMENT AND USE OF RESOURCE AND ENERGY-SAVING TECHNOLOGIES IN INDUSTRIAL PRODUCTION
10:00–10:20	IL	Vorotyntsev I.V.	THE ROLE OF MEMBRANE SEPARATION TECHNOLOGIES IN THE OIL AND GAS INDUSTRY IN THE CLOSED-CYCLE ECONOMY OF THE RUSSIAN FEDERATION
10:20–10:40	IL	Vinokurov E.G.	ЦИФРОВИЗИРОВАННЫЙ ПОДХОД К ВЫБОРУ ЭКОЛОГИЧЕСКИ-РАЦИОНАЛЬНЫХ ТЕХНОЛОГИЧЕСКИХ РАСТВОРОВ ДЛЯ НАНЕСЕНИЯ ЗАЩИТНО-ФУНКЦИОНАЛЬНЫХ ПОКРЫТИЙ
10:40–11:00	IL	Grechnikov F.V.	SCIENTIFIC BASIS OF METAL FORMING PROCESSES INTENSIFICATION BY CREATING AN OPTIMAL CRYSTALLOGRAPHIC STRUCTURE OF BLANKS DURING ROLLING

Hall Ipatiev

11:00–11:15	OL	Aleinikova K.B.	FRAGMENTARY MODEL OF THE ATOMIC STRUCTURE OF AMORPHOUS MATERIALS
11:15–11:30	OL	Volkov A.V.	MEMBRANES FOR OIL REFINING AND PETROCHEMISTRY
11:30–11:45	OL	Voloshin A.I.	DEVELOPMENT AND IMPLEMENTATION OF "GREEN" INHIBITORS OF GAS HYDRATE FORMATION AT OIL FIELDS
11:45–12:00	OL	Mironov M.A.	MATERIALS WITH MOSAIC SURFACE FOR OIL SPILL RESPONSE
12:00–12:15	OL	Dyachkova S.G.	RESOURCE SAVING IN PETROLEUM FUEL TECHNOLOGY DUE TO THE INVOLVATION OF OIL REFINING AND PETROCHEMICAL BY-PRODUCTS

October 11

SECTION 4

12:15–12:30	OL	Polyakova N.V.	CONTRIBUTION OF HIGH MOLECULAR NAPHTHENIC ACIDS TO THE FORMATION OF DEPOSITS IN OILFIELD EQUIPMENT
12:45–14:00			Coffee-break, lunch

Chairs – Full Member of RAS V.N. Parmon,
Corresponding Member of RAS A.L. Maximov

Section 5

CHEMISTRY OF FOSSIL AND RENEWABLE HYDROCARBON RESOURCES

Time specified in the program,
includes report and answers to questions

October 8

SECTION 5

Hall Butlerov

Chair: Kazakov M.A., Arutyunov V.S.

14:00–14:30	KL	Agabekov V.E.	NEW NANO-SIZED CATALYSTS FOR THE CONVERSION OF TERPENOIDS INTO PRODUCTS FOR VARIOUS FUNCTIONAL PURPOSE
14:30–14:50	IL	Yakovlev V.A.	CATALYTIC APPROACHES FOR PLANT BIOMASS PROCESSING
14:50–15:10	IL	Dementev K.I.	POTENTIAL OF BIOMASS AND POLYMER WASTE FOR THE PRODUCTION OF FUELS AND BASIC PETROCHEMICAL PRODUCTS
15:10–15:30	IL	Strizhak P.A.	SAF- AND LCAF-FUELS: CHALLENGES ACHIEVEMENTS
15:30–15:50	IL	Matveeva V.G.	CATALYTIC TRANSFORMATION OF PLANT BIOMASS COMPONENTS IN THE PRESENCE OF BIFUNCTIONAL SYSTEMS
15:50–16:15			Coffee-break

Hall Butlerov

Chair: Dementev K.I., Yakubov M.R.

16:15–16:30	OL	Kovalev V.V.	NEW NANO-SIZED CATALYSTS FOR THE CONVERSION OF TERPENOIDS INTO PRODUCTS FOR VARIOUS FUNCTIONAL PURPOSE
16:30–16:45	OL	Vutolkina A.V.	CATALYTIC APPROACHES FOR PLANT BIOMASS PROCESSING
16:45–17:00	OL	Peshnev B.V.	POTENTIAL OF BIOMASS AND POLYMER WASTE FOR THE PRODUCTION OF FUELS AND BASIC PETROCHEMICAL PRODUCTS
17:00–17:15	OL	Dzhabarov E.G.	SAF- AND LCAF-FUELS: CHALLENGES ACHIEVEMENTS
17:15–17:30	OL	Antonov S.A.	CATALYTIC TRANSFORMATION OF PLANT BIOMASS COMPONENTS IN THE PRESENCE OF BIFUNCTIONAL SYSTEMS
17:30–17:45	OL	Kuznetsov P.S.	STABILIZATION OF BIO-OIL FOR SUBSEQUENT CATALYTIC PROCESSING
17:45–18:00	OL	Guznyaeva M.Yu.	CHANGES IN OIL COMPOSITION DURING MODEL BIOOXIDATION PROCESSES BY AEROBIC MICROFLORA STRAINS

October 8

SECTION 5

18:00–18:15	OL	Golubeva M.A.	CATALYSTS BASED ON TRANSITION METAL COMPOUNDS IN HYDRODEOXYGENATION RE-ACTIONS
18:15–18:30	OL	Voronov M.S.	CLUSTER OF PRODUCTION OF CHEMICALS BASED ON VEGETABLE OILS

October 9

SECTION 5

Hall Butlerov

Chair: Agabekov V.E., Maksimov A.L.

14:00–14:30	KL	Kazakov M.O.	PROGRESS IN HYDROPROCESSING CATALYSTS FOR OIL REFINING
14:30–14:50	IL	Kapustin V.M.	CONTRIBUTION OF RUSSIAN SCIENTISTS TO THE DEVELOPMENT OIL REFINING TECHNOLOGIES
14:50–15:10	IL	Varfolomeev M.A.	IN-SITU UPGRADING AND ENHANCED OIL RECOVERY OF HEAVY OIL USING IN-SITU COMBUSTION PROCESS
15:10–15:30	IL	Yakubov M.R.	FEATURES OF ASPHALTENES AND RESINS COMPOSITION IN THE RESIDUAL PRODUCT OF VACUUM RESIDUE HYDROCRACKING AND PROSPECTS FOR ITS USE TO OBTAIN HIGH-MARGIN PRODUCTS
15:30–15:50	IL	Loktev A.S.	NEW CARBONATION-RESISTANT CATALYSTS FOR THE DRY REFORMING OF METHANE TO SYNTHESIS GAS
15:50–16:15			Coffee-break

Hall Butlerov

Chair: Gorbunov D.N., Varfolomeev M.A.

16:15–16:30	OL	Kozlov V.V.	COMPOSITIONS BASED ON THE PRINCIPLES OF “GREEN CHEMISTRY” TO INCREASE OIL RECOVERY OF DIFFICULT OIL RESERVES
16:30–16:45	OL	Kadiev Kh.M.	CHEMICAL PROCESSING OF POLYMER WASTE
16:45–17:00	OL	Stoporev A.S.	ENSURING FLOW ASSURANCE AND ENERGY STORAGE: HOW TO MANAGE GAS HYDRATE FORMATION?
17:00–17:15	OL	Romanova Yu.N.	RHEOLOGY OF OILFIELD WATER-IN-OIL EMULSIONS: FEATURES OF FLOW/BEHAVIOUR DEPENDING ON COMPOSITION AND TEMPERATURE
17:15–17:30	OL	Karpova T.R.	ETHYLENE HOMOLOGIZATION OVER POLY-FUNCTIONAL NI-MO-CONTAINING CATALYSTS
17:30–17:45	OL	Fakhretdinov R.N.	COMPETENCES OF EOR-S OFT LTD. IN CHEMICAL TECHNOLOGIES FOR ENHANCING OIL RECOVERY OF RESERVOIRS

October 9

SECTION 5

17:45–18:00	OL	Ivashkina E.N.	IMPLEMENTATION AND APPLICATION OF DIGITAL TOOLS TO THE PRACTICE OF ENGINEERING ACTIVITIES AT OIL REFINING ENTERPRISES
18:00–18:15	OL	Saidentsal A.R.	NEW OIL-WETTING COMPOSITE FOR OIL PRODUCTION ON THE PRINCIPLE OF GREEN CHEMISTRY WITH APPLICATION OF DEEP EUTECTIC SOLVENTS AND SURFACTANTS
18:15–18:30	OL		

October 10

SECTION 5

Hall Butlerov

Chair: Loktev A.S., Matveeva V.G.

14:00–14:30	KL	Arutyunov V.S.	FUNDAMENTAL FEATURES OF THE IGNITION OF METHANE- AND HYDROGEN-CONTAINING GASES AND THEIR EFFECT ON THE KNOCK RESISTANCE OF GAS FUELS
14:30–14:50	IL	Sinev M.Yu.	SYNTHESIS AND MODIFICATION OF CATALYSTS FOR PRODUCTION OF LOWER OLEFINS USING SUPERCRITICAL FLUID MEDIA
14:50–15:10	IL	Kulikova M.V.	PRODUCTION OF SYNTHETIC HYDROCARBONS FOR FUEL AND PETROCHEMICAL PURPOSES FROM BIOMASS
15:10–15:30	IL	Sedov I.V.	POSSIBILITIES OF REDUCTION OF CO ₂ EMISSION IN GAS-CHEMICAL PROCESSES
15:30–15:50	IL	Gorbunov D.N.	HYDROFORMYLATION: NOVEL CATALYSTS AND APPROACHES TO REALISATION
15:50–16:15			Coffee-break

Hall Butlerov

Chair: Sedov I.V., Yakovlev V.A.

16:15–16:30	OL	Magomedova M.V.	HYBRID ZEOLITE CATALYSTS FOR THE SYNTHESIS OF HYDROCARBONS WITH VARIOUS COMPOSITIONS
16:30–16:45	OL	Vosmerikov A.A.	DEHYDROGENATION OF PROPANE ON γ -Al ₂ O ₃ MODIFIED WITH MANGANESE
16:45–17:00	OL	Veselovskaya Zh.V.	MODERN APPROACHES TO CO ₂ CAPTURE USING LOW-TEMPERATURE COMPOSITE SORBENTS
17:00–17:15	OL	Afokin M.I.	DESIGN OF TECHNOLOGY FOR RECYCLING FLUE GASES OF GPU AND TPP TO SECONDARY ENERGY CARRIERS
17:15–17:30	OL	BorShch V.N.	SHS CATALYSTS FOR SELECTIVE CO ₂ HYDROGENATION TO HEAVY HYDROCARBONS
17:30–17:45	OL	Matieva Z.M.	ONE-STEP SYNTHESIS OF TRIPTANE-ENRICHED LIQUID HYDROCARBONS FROM CO ₂ И H ₂
17:45–18:00	OL	Petriev I.S.	DEVELOPMENT OF HIGH-PERFORMANCE MEMBRANE MATERIALS FOR STEAM REFORMING REACTORS

October 10

SECTION 5

18:00–18:15	OL	Badmaev S.	ELECTROCHEMICAL EXTRACTION OF PURE HYDROGEN FROM METHANOL, DIMETHYL ETHER AND DIMETHOXYMETHANE STEAM REFORMING PRODUCTS
18:15–18:30	OL	Golubev O.V.	LOW-TEMPERATURE CONVERSION OF CO ₂ INTO VALUABLE PRODUCTS BY PLASMA CATALYSIS
18:30–20:00			Poster session

Chairs – Full Member of RAS Yu.A. Zolotov,
Corresponding Member of RAS V.P. Kolotov

Section 6

ANALYTICAL CHEMISTRY: NEW METHODS AND TOOLS FOR CHEMICAL RESEARCH AND ANALYSIS

Time specified in the program,
includes report and answers to questions

October 8

SECTION 6

Hall Vernadsky

Chair: Zolotov Yu.A.

14:00–14:30	KL	Bogomolov A.Yu.	NON-LABORATORY ANALYSIS USING OPTICAL MULTISENSOR SYSTEMS
14:30–14:50	IL	Goryacheva I.Yu.	APPLICATION OF LUMINESCENT SEMICONDUCTOR QUANTUM DOTS IN ANALYSIS
14:50–15:10	IL	Gruznov V.M.	THE SENSE OF SMELL OF ANIMALS AND INSECTS AS A GUIDELINE FOR THE DEVELOPMENT OF OLFACTORY TECHNOLOGIES
15:10–15:30	IL	Kuchmenko T.A.	NEW SENSORS FOR PERSONAL HEALTH DIAGNOSTICS
15:30–15:50	IL	Shaposhnik A.V.	TWO TYPES OF SENSOR DEVICES THAT ALLOW SELECTIVE ANALYSIS
15:50–16:20			Coffee-break

Hall Vernadsky

Chair: Kuchmenko T.A.

16:20–16:35	OL	Yuskina E.A.	CONTACTLESS CHEMICAL SENSOR FOR THE DETERMINATION OF INORGANIC CATIONS AND ANIONS
16:35–16:50	OL	Shuba A.A.	APPLICATION OF PIEZOSENSORS WITH POLYCOMPOSITE COATINGS FOR ASSESSMENT OF MICROBIOLOGICAL SAFETY OF MILK
16:50–17:05	OL	Gryazev I.P.	DEVELOPMENT OF A COLORIMETRIC SCALE FOR GRADATION-FREE ANALYSIS OF BIOLOGICAL FLUIDS USING OPTICAL SENSORS
17:05–17:20	OL	Skorobogatov E.V.	RECOGNITION OF WATER SAMPLES USING THE KINETIC FINGERPRINT METHOD
17:20–17:35	OL	Rusanova T.Yu.	CHEMOMETRIC METHODS IN SPECTROPHOTOMETRIC ANALYSIS
17:35–17:50	OL	Zhmaeva E.V.	A METHODOLOGICAL APPROACH TO DETERMINING THE ELEMENTAL COMPOSITION AND IDENTIFYING THE SOURCES OF SEDIMENTS FORMED DURING TECHNOLOGICAL PROCESSES AT OIL REFINING ENTERPRISES
17:50–18:05	OL	Nikitin P.I.	ULTRA-SENSITIVE RAPID METHODS FOR REGISTRATION OF TOXINS IN FOOD AND MARKERS OF CARDIO DISEASES IN SALIVA

October 8

SECTION 6

18:05–18:20	OL	Vorobeva M.Yu.	DETERMINATION OF POROUS MATERIALS SORPTION CAPACITY BY OXYTHERMOGRAPHY METHOD
18:20–18:35	OL	Burmistrova N.A.	SORBENTS SPECIFIC TO ZEARELENONE BASED ON SILICA MODIFIED WITH MOLECULAR IMPRINTING POLYMERS
18:35–20:00			Poster session <i>Отв. Д.х.н. А.Ю. Богомолов</i>

October 9

SECTION 6

Hall Vernadsky

Chair: Kolotov V.P.

14:00–14:30	KL	Buryakov I.A.	DETECTORS OF EXPLOSIVES: STATE OF THE ART
14:30–14:50	IL	Dzantiev B.B.	RAPID TEST SYSTEMS: NEW APPROACHES FOR DETECTING LOW- AND HIGH-MOLECULAR WEIGHT COMPOUNDS
14:50–15:10	IL	Viryus E.D.	CURRENT STATE OF SPORTS METABOLOMICS
15:10–15:30	IL	Temerdashev A.Z.	NEW DERIVATIZATION REAGENTS FOR HPLC-MS – ISSUES AND PERSPECTIVITIES
15:30–15:50	IL	Saveleva E.I.	BIOMONITORING OF THE IMPACT OF VOLATILE AROMATIC HYDROCARBONS ON HUMANS BY CHROMATO-MASS SPECTROMETRY METHODS
15:50–16:20			Coffee-break

Hall Vernadsky

Chair: Saveleva E.I.

16:20–16:35	OL	Terentev A.G.	STRUCTURAL-ANALYTICAL STUDIES USING RESONANT ELECTRON CAPTURE NEGATIVE ION MASS SPECTROMETRY
16:35–16:50	OL	Borisov R.S.	MONITORING OF CATALYTIC REACTIONS BY DESORPTION/IONIZATION MASS SPECTROMETRY
16:50–17:05	OL	Rodin I.A.	VOLATILE ORGANIC COMPOUNDS AND PROTEINS AS MARKERS OF IRRADIATION OF BIOLOGICAL OBJECTS
17:05–17:20	OL	Chuvashov A.A.	DIFFICULTIES IN INTERPRETING THE RESULTS OF STUDIES ON HIGHLY GLYCOSYLED PROTEINS
17:20–17:35	OL	Kudryavtsev A.S.	ADAPTATION OF A LOW GAS LOAD MASS SPECTROMETRIC ION SOURCE FOR CONNECTION WITH MULTICAPILLARY COLUMNS
17:35–17:50	OL	Ishchenko A.A.	ULTRAFAST TRANSMISSION ELECTRON MICROSCOPY AND DIFFRACTION: PROGRESS FROM SUBNANOSECOND LASER-INDUCED STRUCTURAL DYNAMICS TO FEMTOSECOND QUANTUM TOMOGRAPHY
17:50–18:05	OL	Pochivalov A.S.	LIQUID-LIQUID EXTRACTION INTO SUPRAMOLECULAR SOLVENTS

October 9

SECTION 6

18:05–18:20	OL	Gorbovskaya A.V.	APPROACHES TO THE CREATION OF MIXED-MODE STATIONARY PHASES FOR LIQUID CHROMATOGRAPHY BASED ON POLYMERIC SUBSTRATES
18:20–18:35	OL		
18:35–20:00			Poster session <i>Отв. Д.х.н. Т.Ю. Русанова</i>

October 10

SECTION 6

Hall Vernadsky

Chair: Temerdashev Z.A.

14:00–14:30	KL	Kolotov V.P.	НОВЫЕ ПОДХОДЫ К ПРОБОПОДГОТОВКЕ И АНАЛИЗУ ГОРНЫХ ПОРОД, ПОЛ И БИОЛОГИЧЕСКИХ ОБРАЗЦОВ МЕТОДАМИ МС/АЭС-ИСП
14:30–14:50	IL	Komolova O.A.	NEW EXPRESS METHODS FOR ANALYSIS OF NON-METALLIC INCLUSIONS IN STEELS AND ALLOYS
14:50–15:10	IL	Chubarov V.M.	DEVELOPMENT OF X-RAY FLUORESCENCE METHOD FOR THE DETERMINATION OF THE VALENCE STATE AND SPECIATION OF ELEMENTS
15:10–15:30	IL	Medvedev N.S.	USING OF PRELIMINARY CONCENTRATION OF TRACE ELEMENTS AND NON-STANDARD METHODS OF SAMPLES INTRODUCING INTO THE EXCITATION AND IONIZATION SOURCES FOR ANALYSIS OF HIGH PURITY SUBSTANCES
15:30–15:50	IL	Labusov V.A.	GRAND OPTICAL SPECTROMETERS: A NEW INSTRUMENT FOR MEASURING ANALYTE MASS FRACTIONS
15:50–16:20			Coffee-break

Hall Vernadsky

Chair: Kartsova A.A.

16:20–16:35	OL	Zakharchenko E.A.	CARBON NANOMATERIALS: OPPORTUNITIES AND PROSPECTS OF USE FOR THE PRECONCENTRATION OF REE AND NOBLE METALS
16:35–16:50	OL	Drogobuzhskaya S.V.	INVESTIGATION OF THE ELEMENTAL COMPOSITION OF MINERALS AND FUNCTIONAL MATERIALS (LA-ICP-MS)
16:50–17:05	OL	Bukhbinder G.	DETERMINATION OF IMPURITIES IN COBALT AND NICKEL BY ICP-AES AFTER COPRECIPITATION WITH SCANDIUM HYDROXIDE
17:05–17:20	OL	Soloveva D.A.	COBALT PIGMENTS IN THE PAINTINGS OF C. MONET
17:20–17:35	OL	Firma «NKTs «LABTEST»	POSSIBILITIES OF NKTS “LABTEST” TO SUPPLY EQUIPMENT FOR ATOMIC EMISSION, MOLECULAR AND MASS SPECTROMETRY
17:35–17:50	OL	Maryutina T.A.	PHYSICAL FIELDS IN SAMPLE PREPARATION METHODS

October 10

SECTION 6

17:50–18:05	OL	Panchuk VV.	TWO IN ONE: ELEMENTAL ANALYSIS ON A MÖSSBAUER SPECTROMETER
18:05–18:20	OL	Elokhov A.M.	METAL IONS EXTRACTION BY IONIC LIQUIDS BASED ON IONIC SURFACTANTS
18:20–18:35	OL	Gromyko S.	EXTRACTION-CHROMATOGRAPHIC DETERMINATION OF ALKYLATED DIPHENYLAMINES IN MOTOR OILS
18:35–20:00			Poster session

October 11

SECTION 6

Hall Vernadsky

Chair: Ermakov S.S.

9:00–9:30	KL	Pirogov A.V.	"MICROPLASTICS" AND "NANOPLASTICS": A NEW PROBLEM AND CHALLENGE IN ANALYTICAL CHEMISTRY
9:30–9:50	IL	Kozitsina A.N.	ELECTROCHEMICAL (BIO)SENSORS BASED ON SMALL ORGANIC MOLECULES FOR SOLVING SOME CURRENT PROBLEMS OF ECO-, BIO- AND PHARMACEUTICAL MONITORING
9:50–10:10	IL	Kirsanov D.O.	CONTRIBUTION OF CHEMOMETRICS TO GREEN ANALYTICAL CHEMISTRY
10:10–10:30	IL	Kokovkin V.V.	PLASTICIZED, PASTE AND METAL OXIDE FILM ELECTRODES IN IONOMETRY, VOLTAMMETRY AND ECOLOGY
10:30–10:50	IL	Shishov A.Yu.	AUTOMATION AND MINIATURIZATION OF CHEMICAL ANALYSIS USING DEEP EUTECTIC SOLVENTS

Hall Vernadsky

Chair: Kozitsyna A.N.

11:00–11:15	OL	Brzhezinskii A.S.	SEPARATION AND ANALYSIS OF NANOPARTICLES OF MOSCOW URBAN DUST FOR IDENTIFICATION OF THEIR ANTHROPOGENIC AND NATURAL SOURCES
11:15–11:30	OL	Bessonova E.A.	METABOLIC PROFILING OF BIOACTIVE SUBSTANCES IN NATURAL OBJECTS BY CHROMATOGRAPHY AND CAPILLARY ELECTROPHORESIS USING IONIC LIQUIDS
11:30–11:45	OL	Veselova I.A.	SENSING SYSTEMS BASED ON PLASMON NANOCOMPOSITES WITH CONTROLLED SPECTRAL AND RECOGNITION PROPERTIES IN THE ANALYSIS OF BIOLOGICAL SAMPLES AND SAMPLES OF ECOLOGICAL MONITORING
11:45–12:00	OL	PokhviShcheva N.V.	ION-SELECTIVE OPTICAL SENSORS: PRINCIPLES OF RESPONSE GENERATION AND TUNING RESPONSE CHARACTERISTICS
12:00–12:15	OL	Timofeeva I.I.	MICROEXTRACTION IN FOOD QUALITY CONTROL

October 11

SECTION 6

12:15–12:30	OL	Ermolin M.S.	CONTINUOUS-FLOW SEPARATION AND PRECONCENTRATION OF MICROPLASTICS FROM FRESH AND SEA WATERS USING “WATER-OIL” SYSTEMS
12:30–14:00			Coffee-break, lunch

Chairs – Full Member of RAS V.P. Ananikov, Full Member of RAS V.I. Bukhtiyarov

Section 7

CATALYSIS IN SCIENCE AND INDUSTRY

Time specified in the program,
includes report and answers to questions

October 8

SECTION 7

Hall Markovnikov

Chair: Ananikov V.P., Bukhtiyarov V.I.

14:00–14:30	KL	Shmidt A.F.	NEW APPLICATIONS OF KINETIC DATA IN MECHANISTIC STUDIES IN CATALYSIS
14:30–14:50	IL	Trifonov A.A.	NEW APPROACHES TO ACTIVATION OF C=C AND C-H BONDS
14:50–15:10	IL	Chernyshev V.M.	NOVEL CATALYTIC METHODS FOR THE SELECTIVE C-H FUNCTIONALIZATION OF THE FURAN NUCLEUS
15:10–15:30	IL	Budnikova Yu.G.	ELECTROCHEMICAL C-H FUNCTIONALIZATION. OPPORTUNITIES IN LATE STAGE SYNTHESIS (e-LSF)
15:30–15:50	IL	Koptuyug I.V.	NEW HORIZONS FOR THE APPLICATION OF NMR AND MRI IN CHEMISTRY, BIOLOGY AND MEDICINE
15:50–16:15			Coffee-break

Hall Markovnikov

Chair: Mikhailov A.A., Chernyshev V.M.

16:15–16:25	OL	Skudin V.V.	MECHANISM OF INTENSIFICATION OF GAS-CHEMICAL REACTIONS IN A REACTOR WITH A MEMBRANE CATALYST
16:25–16:35	OL	Khrizanforov M.N.	SYNERGISTIC CATALYSTS FOR ELECTROCATALYTIC REDUCTION OF CARBON DIOXIDE AND HYDROGEN EVOLUTION REACTION
16:35–16:45	OL	RostovShchikova T.N.	SYNTHETIC OPAL IN THE SYNTHESIS OF CO OXIDATION CATALYSTS
16:45–16:55	OL	Snytnikov P.V.	STRUCTURED CATALYSTS FOR FUEL PROCESSORS AND ELECTROCHEMICAL GENERATORS: FROM R&D TO PILOT-SCALE PRODUCTION
16:55–17:05	OL	Shilina M.I.	CATALYSTS BASED ON Cu/Ce-MODIFIED ZEOLITES FOR OXIDATION OF CARBON MONOXIDE
17:05–17:15	OL	Dolganov A.V.	METAL-FREE ELECTROCATALYSTS FOR PRODUCTION OF MOLECULAR HYDROGEN AND SYNTHESIS GAS: KINETICS, MECHANISM AND STRUCTURAL DESIGN OF CATALYSTS

October 8

SECTION 7

17:15–17:25	OL	Salnikov A.V.	SUPPORTED Pt-MeO _x /CNT CATALYSTS FOR THE DBT OXIDATION IN HYDROCARBON FUELS
17:25–17:35	OL	Ivantsov M.I.	NEW APPROACHES TO THE FORMATION OF METALLOCARBON CATALYZERS FOR HYDROGENATION OF CO
17:35–17:45	OL	Kalinin I.A.	HIGH-PERFORMANCE CATALYTIC HYDROGEN SENSORS FABRICATED ON ANODIC ALUMINA SUBSTRATES
17:45–17:55	OL	Bukhtiyarova G.A.	SYNTHESIS OF N-ALKYL-5-METHYL-2-PYRROLIDONES OVER NICKEL PHOSPHIDE CATALYSTS
17:55–18:05	OL	Arzumanyan A.V.	HYDROSILYLATION – A KEY CATALYTIC APPROACH TO SI-C-BOND FORMATION
18:05–18:15	OL	Faingold E.E.	METALLOCENE/ISOBUTYLALUMINUM ARYLOXIDE CATALYTIC SYSTEMS FOR SYNTHESIS OF ETHYLENE-PROPYLENE COPOLYMERS
18:30–20:00			Poster session

October 9

SECTION 7

Hall Markovnikov

Chair: Koptuyug I.V., Budnikova Yu.G.

14:00–14:30	KL	Sinyashin O.G.	NEW PHOSPHORUS LIGANDS FOR CATALYSIS
14:30–14:50	IL	Postnikov P.S.	PLASMON-ASSISTED ACTIVATION OF ORGANIC REACTIONS ALTERNATIVE APPROACH FOR CATALYSIS
14:50–15:10	IL	Brylyakov K.P.	PERSPECTIVE BIOMIMETIC PROCESSES FOR SELECTIVE FUNCTIONALIZATION OF ORGANIC COMPOUNDS
15:10–15:30	IL	Perekalin D.S.	CYCLOPENTADIENYL RHODIUM COMPLEXES AS CATALYSTS FOR SELECTIVE C-H ACTIVATION REACTIONS
15:30–15:50	IL	Abel A.S.	PHOTOCATALYSTS BASED ON FUNCTIONALIZED 1,10-PHENANTHROLINE RUTHENIUM(II) COMPLEXES
15:50–16:15			Coffee-break

Hall Markovnikov

Chair: Brylyakov K.P., Abel A.S.

16:15–16:25	OL	Averin A.D.	COPPER NANOPARTICLES IN THE CATALYSIS OF CARBON-NITROGEN BOND FORMATION
16:25–16:35	OL	Prima D.O.	CONCEPTION OF HYBRID Pd/NHC SYSTEMS
16:35–16:45	OL	Ershov V.A.	SYNTHESIS AND CATALYTIC ACTIVITY OF CARBONATE-STABILIZED RHODIUM NANOPARTICLES
16:45–16:55	OL	Kashin A.S.	MULTILEVEL CATALYTIC SYSTEMS: FROM MOLECULAR COMPLEXES TO PARTICLE ENSEMBLES
16:55–17:05	OL	Chepkasov I.V.	STRUCTURE-DRIVEN TUNING OF O AND CO ADSORPTION ON AUCU NANOPARTICLES: A DENSITY FUNCTIONAL THEORY STUDY
17:05–17:15	OL	Larionov V.A.	METAL-TEMPLATED APPROACH FOR THE DESIGN OF CHIRAL HOMOGENEOUS CATALYSTS
17:15–17:25	OL	Khazipov O.V.	APPLICATION OF Ni(II) COMPLEXES WITH N-HETEROCYCLIC CARBENES IN CATALYSIS OF C-H ACTIVATION AND C-N CROSS-COUPLING REACTIONS
17:25–17:35	OL	Redina E.A.	BIMETALLIC CATALYSTS – NEW IDEAS FOR NEW PROCESSES

October 9

SECTION 7

17:35–17:45	OL	Shevchenko M.A.	4-AMINOIMIDAZOLIUM SALTS AS PRECURSORS OF FUNCTIONALIZED M/NHC
17:45–17:55	OL	Yakovenko R.E.	INFLUENCE OF PROMOTER ADDITIVES Pt, Pd, Ru AND Ni ON THE CATALYTIC PROPERTIES OF BIFUNCTIONAL COBALT CATALYSTS FOR THE SYNTHESIS OF HYDROCARBONS FROM CO AND H ₂
17:55–18:05	OL	Zaprvadina D.M.	SYNTHESIS OF IMINE DERIVATIVES OF CAMPHOR USING Zn-CONTAINING IONIC LIQUIDS
18:05–18:15	OL	Grabchenko M.V.	Ag-Cu CATALYSTS SUPPORTED ON MIXED OXIDES FOR OXIDATIVE EXHAUST GAS PURIFICATION
18:30–20:00			Poster session

October 10

SECTION 7

Hall Markovnikov

Chair: Shmidt A.F., Postnikov P.S.

14:00–14:30	KL	Bukhtiyarov A.V.	ADSORPTION-INDUCED SEGREGATION AS A TOOL FOR DRIVING CATALYTIC PERFORMANCE OF Pd-BASED BIMETALLIC CATALYSTS
14:30–14:50	IL	Yakhvarov D.G.	ELECTROCHEMICAL SYNTHESIS OF HOMOGENEOUS CATALYSTS FOR SELECTIVE ETHYLENE DIMERIZATION AND TRIMERIZATION
14:50–15:10	IL	Nikoshvili L.Zh.	POROUS AROMATIC POLYMERS AS SUPPORTS FOR THE CATALYSTS OF HYDROGENATION AND CROSS-COUPLING
15:10–15:30	IL	Mikhailov A.A.	THE PHENOMENON OF "DEAD" METAL IN HETEROGENEOUS CATALYSIS
15:30–15:50	IL	Vasilevskii S.F.	CATALYSIS AS PART OF NEW STRATEGIES FOR THE DEVELOPMENT OF ACETYLENE CHEMISTRY
15:50–16:15			Coffee-break

Hall Markovnikov

Chair: Perekalin D.S., Prima D.O.

16:15–16:25	OL	Kinzhalov M.A.	VISIBLE-LIGHT PHOTOCATALYSIS WITH METALLA-N-HETEROCYCLIC CARBENE COMPLEXES
16:25–16:35	OL	Vatsadze S.Z.	BISPIDINE ORGANOCATALYSTS WITH LUMINESCENT AND RADICAL LABELS
16:35–16:45	OL	Kozlova E.A.	NEW PHOTOCATALYSTS FOR CO ₂ REDUCTION UNDER VISIBLE LIGHT
16:45–16:55	OL	Burykina Yu.V.	INVESTIGATION OF PHOTOCATALYTIC TRANSFORMATIONS USING MASS SPECTROMETRY IN OPERANDO MODE
16:55–17:05	OL	Poluboyarinova K.K.	PHOTOCATALYTIC PROPERTIES OF MIXED MOLYBDENUM AND TUNGSTEN TRIOXIDES WITH DISCOLORATION OF METHYLENE BLUE AS AN EXAMPLE
17:05–17:15	OL	Salomatina E.V.	NANOSTRUCTURED TITANIUM DIOXIDE IN POLYMER MATRIX AS AN EFFECTIVE PHOTOCATALYST FOR WASTE WATER TREATMENT
17:15–17:25	OL	Bolotin D.S.	ELECTROPHILIC CATALYSIS WITH ORGANIC LEWIS ACIDS

October 10

SECTION 7

17:25–17:35	OL	Shelepenko K.E.	A NEW APPROACH TO THE SYNTHESIS OF C-3-FUNCTIONALIZED DERIVATIVES OF 2-FURANCARBOXYLIC ACIDS BASED ON RUTHENIUM-CATALYZED REACTIONS OF C-H FUNCTIONALIZATION
17:35–17:45	OL	Kudakina V.A.	CYCLIZATION OF DIHALOARENES IN THE PRESENCE OF NICKEL COMPLEXES WITH DIAZABUTADIENE LIGANDS
17:45–17:55	OL	Shamanaev I.V.	RAPESEED OIL HYDROCONVERSION OVER NICKEL PHOSPHIDE CATALYSTS SUPPORTED ON ALUMINA-ZEOLITE COMPOSITES
17:55–18:05	OL	Kuchkaev A.M.	WHITE IS THE NEW BLACK. COORDINATION COMPOUNDS DERIVED FROM WHITE PHOSPHORUS ACTIVATION AS ELECTROCATALYSTS OF WATER SPLITTING TO H ₂ .
18:05–18:15	OL	Yudin N.V.	DEVELOPING PALLADIUM CATALYSTS FOR REDUCTIVE DEBENZYLATION OF HEXAAZASOWURTZITANE DERIVATIVES

October 11

SECTION 7

Hall Markovnikov

Chair: Trifonov A.A., Yakhvarov D.G.

9:00–9:30	KL	Galushko A.S.	DYNAMIC BEHAVIOR OF HETEROGENEOUS PALLADIUM-BASED CATALYTIC SYSTEMS
9:30–10:00	IL	Chusov D.A.	CHEMICAL INFORMATION SEARCH AND NEW APPROACHES TO REENGINEERING
10:00–10:20	IL	Dubovtsev A.Yu.	GOLD-CATALYZED DIFFUNCTIONALIZATION OF ALKYNES
10:20–10:40	IL	Temnikov M.N.	THIRD GENERATION OF SILICONE PRODUCTION. DIRECT SYNTHESIS OF ORGANOALKOXSILANES.
10:40–11:00	СП	Kolosov N.A.	PROSPECTS OF LOCALISATION OF OLEFIN POLYMERISATION CATALYSTS PRODUCTION IN RUSSIA

Hall Markovnikov

Chair: Nikoshvili L.Zh., Temnikov M.N.

11:00–11:10	СП	Babina A.A.	CATALYSTS FOR PETROCHEMICAL PRODUCTION: CHALLENGES ON THE WAY OF LOCALISATION
11:10–11:20	OL	Vakulin I.V.	APPLICATION OF SHAPE SELECTIVITY CONCEPT FOR PREDICTION OF CATALYTIC AND ENANTIO SELECTIVITY OF POROUS MATERIALS
11:20–11:30	OL	Tarkhanova I.G.	IMMOBILIZED IONIC LIQUIDS WITH METAL-CONTAINING ANIONS IN CATALYSIS
11:30–11:40	OL	Mitchenko S.A.	SIMPLE PLATINUM ACIDO COMPLEXES IN CATALYSIS OF C-C COUPLING REACTIONS
11:40–11:50	OL	Grigoreva N.G.	A NEW CLASS OF CATALYSTS FOR PETROCHEMICALS AND ORGANIC SYNTHESIS BASED ON GRANULATED HIERARCHICAL ZEOLITES
11:50–12:00	OL	Sidorenko A.Yu.	ISOMERIZATION OF α -PINENE OXIDE ON ALUMINUM SILICATE NANOTUBES IN GREEN SOLVENTS

October 11

SECTION 7

12:00–12:20	OL	Bermesheva E.V.	DESIGN OF NEW SINGLE COMPONENT Ni- AND Pd-CATALYSTS FOR ADDITION POLYMERIZATION OF CYCLOOLEFINS
12:30–14:00			Coffee-break, lunch

Chairs – Full Member of RAS A.M. Muzafarov,
Corresponding Member of RAS S.A. Ponomarenko

Section 8

**POLYMERS AND POLYMERIC
MATERIALS (INCLUDING 2ND
INTERNATIONAL SYMPOSIUM
“MODERN TRENDS IN DENDRIMER
CHEMISTRY AND APPLICATIONS”)**

Time specified in the program,
includes report and answers to questions

October 8

SECTION 8

Hall Lebedev

Chair: Muzafarov A.M., Ponomarenko S.A.

14:00–14:30	KL	Sheiko S.S.	BOTTLEBRUSH NETWORKS: PROGRAMMABLE PROPERTIES EMPOWERED BY ARCHITECTURE
14:30–14:50	IL	Ivanov D.A.	THE USE OF SYNCHROTRON RADIATION FOR STRUCTURAL STUDIES OF FUNCTIONAL MATERIALS
14:50–15:10	IL	Bermeshev M.V.	MACROMOLECULAR DESIGN OF POLYMERIC MEMBRANE MATERIALS BASED ON SUBSTITUTED NORBORNENES: CURRENT STATE AND PROSPECTS FOR DEVELOPMENT
15:10–15:30	IL	Bratskaya S.Yu.	FULL FACTORIAL ANALYSIS IN DESIGN OF CHITOSAN SCAFFOLDS FOR 3D CELL CULTURING
15:30–15:50	IL	Chernikova E.V.	REVERSIBLE DEACTIVATION RADICAL POLYMERIZATION: TASKS, IMPLEMENTATION AND PROSPECTS
15:50–16:30			Coffee-break

Hall Lebedev

Chair: Chernikova E.V., Yudin V.E.

16:30–16:45	OL	Vasilevskaya V.V.	AMPHIPHILIC HOMOPOLYMERS: FEATURES OF SELF-ORGANIZATION IN GRAFTED LAYERS AND SOLUTION
16:45–17:00	OL	Kozhunova E.Yu.	SYNTHESIS AND PROPERTIES OF ANIONIC COPOLYMERS AND MICROGELS FOR BIOMEDICAL ADHESIVES
17:00–17:15	OL	Stepanov E.A., Stolpovskaya N.V.	HYDROGENATED BUTADIENE STYRENE POLYMERS AS EFFECTIVE ADDITIVES FOR MOTOR OILS
17:15–17:30	OL	Sukhov B.G.	HYBRID INORGANIC-ORGANIC NANOBIOCOMPOSITES AS PROMISING PLATFORMS FOR INTERDISCIPLINARY RESEARCH AND TECHNOLOGY
17:30–17:45	OL	Chertovich A.V.	SELF ORGANIZATION IN POLYMERS WITH ACTIVE UNITS
17:45–18:00	OL	Zaremskii M.Yu.	FEATURES OF THE SYNTHESIS OF EASILY DEGRADABLE POLYMERS WITH THE PARTICIPATION OF CYCLIC KETENE ACETALS

October 8

SECTION 8

18:00–18:15	OL	Kritchenkov A.S.	NEW APPROACHES TO THE FUNCTIONALIZATION OF CHITOSAN
18:15–18:30	OL	Golovanova O.A.	SYNTHESIS OF COMPOSITE MATERIALS BASED ON CALCIUM PHOSPHATES AND SODIUM ALGINATE-CHITOSAN POLYELECTROLYTE COMPLEX
18:30–20:00			Poster session

October 9

SECTION 8

Hall Lebedev

Chair: Yakimanskii A.V., Luponosov Yu.N.

14:00–14:30	KL	Ponomarenko S.A.	FUNCTIONAL MATERIALS FOR ORGANIC ELECTRONICS: YESTERDAY, TODAY AND TOMORROW
14:30–14:50	IL	Badamshina E.R.	POLYMER BASIS OF LITHOGRAPHIC MATERIALS: PROBLEMS AND SOLUTIONS
14:50–15:10	IL	Kazantsev M.S.	STRUCTURAL VARIABILITY AND FUNCTIONAL PROPERTIES OF CONJUGATED OLIGOMERS FOR ORGANIC OPTOELECTRONICS
15:10–15:30	IL	Agina E.V.	MATERIALS FOR FUNCTIONAL AND RECEPTOR LAYERS OF LIQUID SENSORS BASED ON ORGANIC TRANSISTORS
15:30–15:50	IL	Troshin P.A.	REDOX-ACTIVE POLYMERS AS ELECTRODE MATERIALS FOR PROMISING TYPES OF BATTERIES
15:50–16:30			Coffee-break

Hall Lebedev

Chair: Agina E.V., Troshin P.A.

16:30–16:45	OL	Yakimanskii A.V.	POLYFLUORENES WITH COVALENTLY ATTACHED CYANINE DYES: SYNTHESIS AND APPLICATIONS IN OPTOELECTRONICS
16:45–17:00	OL	Luponosov Yu.N.	NEW ORGANIC SEMICONDUCTORS BASED ON DONOR-ACCEPTOR OLIGOMERS FOR ORGANIC AND HYBRID OPTOELECTRONICS
17:00–17:15	OL	Bovaldinova K.A.	SUBSTITUTION OF TRADITIONAL MATERIALS BY POLYMERIC MATERIALS
17:15–17:30	OL	Malkanduev Yu.A.	GELATION IN PROCESSES INVOLVING QUATERNARY AMMONIUM COMPOUNDS
17:30–17:45	OL	Shapagin A.V.	STRUCTURE FORMATION IN MULTICOMPONENT REACTIVE POLYMER SYSTEMS
17:45–18:00	OL	Markin A.V.	THERMODYNAMICS OF CARBOSILANE DENDRIMERS AS A FUNDAMENTAL BASIS FOR THE CREATION OF NEW TYPES OF POLYMERIC MATTER

October 9

SECTION 8

18:00–18:15	OL	Bezlepkina K.A.	PREPARATION OF FUNCTIONAL ORGANOSILICONE MOLECULES OF DIFFERENT STRUCTURES BY THE CUAAC REACTION IN THE PRESENCE OF A HETEROGENEOUS CATALYST
18:15–18:30	OL	Soloveva A.B.	POLYMER PHOTSENSITIZING SYSTEMS FOR ANTIMICROBIAL PHOTODYNAMIC THERAPY
18:30–20:00			Poster session

October 10

SECTION 8

Hall Lebedev

Chair: Muzafarov A.M., Ivanov D.A.

14:00–14:30	KL	Chvalun S.N.	PROSPECTIVE DIRECTIONS FOR THE DEVELOPMENT OF POLYMERS AND POLYMER MATERIALS
14:30–14:50	IL	Ozerin A.N.	ULTRA-HIGH MOLECULAR WEIGHT POLYETHYLENE. THE CURRENT STATE OF THE PROBLEM
14:50–15:10	IL	Yudin V.E.	THERMAL, FLAME RETARDANT AND CRYO-RESISTANT POLYMER COMPOSITE MATERIALS FOR ADVANCED TECHNOLOGIES
15:10–15:30	IL	Yaroslavov A.A.	POLYMER WASTE: PROBLEMS AND PROSPECTS
15:30–15:50	IL	Shcherbina M.A.	NECESSITY OF A SYSTEMIC APPROACH TO THE PROBLEM OF PROCESSING POLYMER WASTE
15:50–16:30			Coffee-break

Hall Lebedev

Chair: Ozerin A.N., Yaroslavov A.A.

16:30–16:45	OL	Khashirova S.Yu.	HIGH-PERFORMANCE POLYMERS AND TECHNOLOGIES AS KEY ELEMENTS OF FUTURE MEDICINE
16:45–17:00	OL	Zhansitov A.A.	COPOLYMERS BASED ON POLYETHER KETONES FOR 3D PRINTING
17:00–17:15	OL	Solodilov V.I.	PRINCIPLES OF CREATING FIBERS REINFORCED PLASTICS WITH INCREASED CRACK RESISTANCE BASED ON HYBRID MATRICES POLYEPOXIDE-THERMOPLASTICS
17:15–17:30	OL	Vaniev M.A.	DEVELOPMENT AND RESEARCH OF PROPERTIES OF NEW ELASTOMERIC MATERIALS WITH INCREASED RESISTANCE TO THE EFFECTS OF THE TROPIC ATMOSPHERE AND THE MARINE ENVIRONMENT
17:30–17:45	OL	Kablov V.F.	DEVELOPMENT OF ELASTOMERIC MATERIALS FOR EXTREME OPERATING CONDITIONS USING COMPUTATIONAL MATERIALS SCIENCE METHODS

October 10

SECTION 8

17:45–18:00	OL	Baruta D.S.	FEATURES OF SYNTHESIS OF STYRENE-ACRYLIC DISPERSIONS FOR SURFACE SIZING OF PAPER AND CARDBOARD
18:00–18:15	OL	Isaev A.Yu.	CURRENT STATE OF DEVELOPMENT OF ADHESIVE MATERIALS FOR AVIATION TECHNOLOGY IN THE RUSSIAN FEDERATION
18:15–18:30	OL	Minyailo E.O.	USING AMMONIA AS A REACTION MEDIUM – A NEW APPROACH TO SILICONE SYNTHESIS AND RECYCLING
18:30–20:00			Poster session

October 11

SECTION 8

Hall Lebedev

Chair: Ponomarenko S.A., Chvalun S.N.

9:00–9:30	KL	Muzafarov A.M.	MACROMOLECULAR NANO-OBJECTS: OUTCOMES OF THE EXTENSIVE DEVELOPMENT PHASE
9:30–9:50	IL	Bakirov A.V.	CRYSTALLIZATION OF HIGH-GENERATION DENDRIMERS: FROM SPACE FILLING TO DENSE PACKING
9:50–10:10	IL	Milenin S.A.	SYNTHESIS AND MODIFICATION OF ORGANOSILICON MOLECULES USING THE CUAAC REACTION
10:10–10:30	IL	Kramarenko E.Yu.	DIRECTED MODIFICATION OF CARBOSILANE DENDRIMERS AS A WAY TO CONTROL THEIR CONFORMATIONAL BEHAVIOR AT THE HYDROPHOBIC-HYDROPHILIC INTERPHASE BOUNDARY: ATOMISTIC SIMULATIONS
10:30–10:50	IL	Zhu Xiaomin	VESICLES FORMED BY SUPRAMOLECULAR COMPLEXES CONTAINING MONODENDRON LIGANDS

Hall Lebedev

Chair: Zhu X., Bakirov A.V.

11:00–11:15	OL	Obrezkova M.A.	FROM MOLECULAR BRUSHES TO MOLECULAR FILLERS
11:15–11:30	OL	Slonov A.L.	STUDY OF THE INFLUENCE OF SINTERING MODES OF POLYETHERETHER KETONE AND POLYPHENYLENE SULPHONE POWDERS ON THE MECHANICAL PROPERTIES OF SAMPLES
11:30–12:30		Round table «The concept for solving polymer waste utilization problem» <i>(moderator Muzafarov A.M.)</i>	
12:30–14:00		Coffee-break, lunch	

Chairs – Corresponding Member of RAS A.O. Terentyev, Corresponding Member of RAS N.P. Tarasova, Prof. A.A. Kartsova, Prof. S.S. Karlov

Section 9

CHEMICAL EDUCATION

Time specified in the program,
includes report and answers to questions

October 8

SECTION 9

Hall Zinin

Chair: Tarasova N.P.

14:00–14:30	KL	Terentev A.O.	PERSONAL-PROFESSIONAL GROWTH FROM STUDENT TO YOUNG SCIENTIST IN THE SYSTEM OF UNIVERSITY/ACADEMIC INSTITUTE
14:30–14:50	IL	Mammino Liliana	MULTIDISCIPLINARY IN GREEN CHEMISTRY EDUCATION
14:50–15:10	IL	Varaksin M.V.	MODERN UNIVERSITY CHEMISTRY EDUCATION: TRENDS, APPROACHES AND PROSPECTS
15:10–15:30	IL	Balova I.A.	INNOVATIVE TEACHING METHODS AT THE INSTITUTE OF CHEMISTRY OF SPBGU
15:30–15:50	IL	Kazakov Yu.M.	SOCIAL PARTNERSHIP, REGIONAL GOVERNMENT-UNIVERSITY-INDUSTRIAL ENTERPRISE, AS A TOOL TO IMPROVE THE QUALITY OF NATURAL SCIENCE EDUCATION. THE EXPERIENCE OF THE KAZAN NATIONAL RESEARCH TECHNOLOGICAL UNIVERSITY
15:50–16:15			Coffee-break

Hall Zinin

Chair: Terentev A.O.

16:15–16:30	OL	Medvedeva M.V.	
16:30–16:45	OL	Svitanko I.V.	OVERDUE REFORMS OF HIGHER CHEMICAL EDUCATION
16:45–17:00	OL	Lobanov A.V.	INTEGRATION AND ADAPTIVE PROCESSES IN UPDATING OF CONTENT OF CHEMICAL EDUCATION
17:00–17:15	OL	Savinov S.S.	ONLINE TEACHING: A COURSE ON METROLOGY OF CHEMICAL ANALYSIS
17:15–17:30	OL	Ziyatdinova Yu.N.	ROLE OF PROFESSIONAL DEVELOPMENT PROGRAMS IN CHEMICAL ENGINEERING EDUCATION
17:30–17:45	OL	Kraisman N.V.	ADDITIONAL EDUCATION AS A FACTOR IN CHEMISTRY STUDENTS ACADEMIC MOBILITY FORMATION

October 8

SECTION 9

17:45–18:00	OL	Myznikov L.V.	MATRIX LAB COURSE - AN INNOVATIVE APPROACH TO LABORATORY PRACTICUM ON THE EXAMPLE OF SPECIALIZED CHEMICAL DISCIPLINES
18:00–18:15	OL	Sultanova D.Sha.	MODERNIZING THE CONTENT OF EDUCATIONAL PROGRAMS THROUGH BUILDING AN INTERNSHIP SYSTEM AT INDUSTRIAL ENTERPRISES
18:15–18:30	OL	Trushnikov D.Yu., Golikov D.V. (A90B company)	NOBEL CLASS. ARCHITECTURAL AND METHODOLOGICAL IMPLEMENTATION
18:30–20:00			Poster session

October 9

SECTION 9

Hall Zinin

Chair: Karlov S.S.

14:00–14:30	KL	Kartsova L.A.	CREATIVE COMMONWEALTH "SCHOOL-UNIVERSITY"
14:30–14:50	IL	Levina L.S.	SCHOOL CHEMISTRY TEACHER: REALITY AND PERSPECTIVES
14:50–15:10	IL	Dobrotin D.Yu.	SCIENTIFIC AND METHODOLOGICAL APPROACHES TO THE DEVELOPMENT OF CONTROL MEASURING MATERIALS STATE FINAL EXAMINATION IN CHEMISTRY
15:10–15:30	IL	Naumov A.V.	PHYSICAL AND CHEMICAL EDUCATION: INTERDISCIPLINARY RELATIONS WITHIN THE ERA OF TECHNOLOGICAL CHANGE
15:30–15:50	IL	Orzhekovskii P.A.	ON THE PROBLEMS OF TRAINING AND RETRAINING OF TEACHING STAFF
15:50–16:15			Coffee-break

Hall Zinin

Chair: Kartsova L.A.

16:15–16:30	OL	Gladilin A.K.	OLYMPIADS OR PROJECT ACTIVITY - WHAT TO CHOOSE?
16:30–16:45	OL	Yashkin S.N.	CHEMICAL START: FROM SCHOOL LESSON TO FUTURE PROFESSION
16:45–17:00	OL	Oparina S.A.	EARLY PROFESSIONAL ORIENTATION OF STUDENTS IN THE FIELD OF NATURAL SCIENCES IN THE SYSTEM OF ADDITIONAL EDUCATION
17:00–17:15	OL	Polupanenko E.G.	KEY ASPECTS OF THE DE-WESTERNIZATION OF THE MODERN CHEMICAL EDUCATION SYSTEM FOR SCHOOLCHILDREN
17:15–17:30	OL	Drobyshev E.Yu.	A MODEL OF INTERACTION BETWEEN A TEACHER-MENTOR AND A STUDENT DURING EDUCATIONAL AND RESEARCH ACTIVITIES IN THE CONTEXT OF THE ACADEMIC SUBJECT "CHEMISTRY"
17:30–17:45	OL	Borodina G.G.	CHEMICAL EDUCATION: INTEGRATION THROUGH STEAM TECHNOLOGY
17:45–18:00	OL	Kostenko E.S.	INTRODUCTION OF STEAM METHODOLOGY IN SCHOOL CHEMISTRY EDUCATION

October 9

SECTION 9

18:00–18:15	OL	Redko T.S.	SPECIALIZED CHEMISTRY EDUCATIONAL SESSIONS BASED ON THE SIRIUS MODEL IN THE SYSTEM OF ADDITIONAL EDUCATION OF THE STAVROPOL TERRITORY
18:15–18:30	OL	Yakovlev I.A.	ALL-RUSSIAN CHEMISTRY TOURNAMENT FOR SCHOOLCHILDREN AS A PROMISING WAY TO INTRODUCE TALENTED YOUTH TO SCIENCE
18:30–20:00			Poster session

October 10

SECTION 9

Hall Zinin

Chair: Terentev A.O.

14:00–14:30	KL	Dodonova A.A.	THE BEST EDUCATION TECHNOLOGIES AVAILABLE FOR SUSTAINABLE DEVELOPMENT: NEW TRAINING OPPORTUNITIES FOR CHEMICAL ENGINEER
14:30–14:50	IL	Rumyantsev E.V.	TRAINING OF NEW ELITE ENGINEERING PERSONNEL AT DMITRY MENDELEEV UNIVERSITY: PREDICTING THE FUTURE
14:50–15:10	IL	Kutkin A.V.	SCIENTIFIC SCHOOLS OF FGUP 'GOSNIIOKHT'. INTEGRATION OF SCIENCE, EDUCATIONAL PROCESS AND PRODUCTION
15:10–15:30	IL	Navrotskii A.V.	'NON-CLASSICAL PRACTICES' IN CLASSICAL CHEMICAL-TECHNOLOGICAL EDUCATION
15:30–15:50	IL	Shekhovtsova T.N.	POSITIVE EXPERIENCE OF DISTANCE LEARNING OF STUDENTS
15:50–16:15			Coffee-break

Hall Zinin

Chair: Tarasova N.P.

16:15–16:30	OL	Mikhailov O.V.	DISTANCE LEARNING AND CHEMICAL EDUCATION: PROBLEM OF COMPATIBILITY
16:30–16:45	OL	Pletnev M.A.	CHEMICAL ENGINEERING EDUCATION AT TECHNICAL UNIVERSITY
16:45–17:00	OL	Sulman M.G.	DISCIPLINES OF THE BLOCK 1 SET AND VARIABLE PART FORMING THE PROFILE OF CHEMISTRY PROGRAMS FOR BACHELOR AND MASTER DEGREE
17:00–17:15	OL	Myalkin I.V.	QUALITY OF TEACHING CHEMICAL DISCIPLINES IN HIGHER SCHOOL THROUGH THE INTEGRATION OF EDUCATIONAL PROGRAMS WITH PRODUCTION IN HIGHER SCHOOL (BASED ON THE EXAMPLE OF METALLURGICAL SPECIALTIES OF THE VYKSUNSKY BRANCH OF NUST MISIS)
17:15–17:30	OL	Novozhilova I.V.	EXPERIENCE IN DEVELOPING EDUCATIONAL PROGRAMS ON THE APPLICATION OF DIGITAL TECHNOLOGIES IN THE PRODUCTION AND OPERATION OF REFRACTORY MATERIALS AND PRODUCTS FOR METALLURGICAL PROCESSES
17:30–17:45	OL	Shabunina O.V.	MODULAR SYSTEM IN MEDICAL CHEMISTRY

October 10

SECTION 9

17:45–18:00	OL	Bakhrushina E.O.	APPLICATION OF AR VR TECHNOLOGIES IN THE PHARMACISTS-ANALYSTS TRAININGS: THE EXPERIENCE OF THE PHARMACY AND BIOTECHNOLOGY COMPETENCE CENTRE OF SECHENOV UNIVERSITY
18:00–18:15	OL	Gavryushkin P.N.	WORKSHOPS ON 3D MODELING AND 3D PRINTING WITHIN OF CHEMISTRY COURSES
18:15–18:30	OL	Chuvashov A.A.	EXPERIMENTAL MODEL OF LABORATORY INFRASTRUCTURE OF SIRIUS UNIVERSITY
18:30–20:00			Round Table on problems of chemical education

October 11

SECTION 9

Hall Zinin

Chair: Kartsova L.A.

9:00–9:30	KL	Karlov S.S.	CHEMICAL OLYMPIADS OF SCHOOLCHILDREN: PROBLEMS AND PROSPECTS. THE VIEW OF A UNIVERSITY TEACHER
9:30–9:50	IL	Timoshkin A.Yu.	DEVELOPMENT AND IMPLEMENTATION OF ONLINE COURSES AT THE DEPARTMENT OF GENERAL AND INORGANIC CHEMISTRY OF ST. PETERSBURG STATE UNIVERSITY
9:50–10:10	IL	Tyulkov I.A.	TRAINING OF CHEMISTRY TEACHERS AT A CLASSICAL UNIVERSITY
10:10–10:30	IL	Trusova M.E.	CHOICE OF SPECIALISATION IN HIGHER EDUCATION
10:30–10:50	IL	Moskvin S.A.	ONLY SPECIALIZED TRAINING CAN BE THE HOPE

Hall Zinin

Chair: Karlov S.S.

10:50–11:05	OL	Eremin V.V.	CHEMISTRY OLYMPIADS IN RUSSIA – A SOCIAL LIFT AND A MATTER OF NATIONAL PRIDE
11:05–11:20	OL	Akhmetov M.A.	CRITERIA FOR CHEMICAL OLYMPIAD TASKS
11:20–11:35	OL	Gumerov A.M.	INVOLVING UNIVERSITY STUDENTS IN MENTORING SCHOOL STUDENTS: ON THE EXAMPLE OF PREPARING SCHOOLCHILDREN FOR CHEMISTRY OLYMPIADS
11:35–11:50	OL	Kozlova T.L.	THE OLYMPIAD MOVEMENT IN THE PROFESSIONAL DEVELOPMENT OF A CHEMISTRY TEACHER
11:50–12:05	OL	Zubarev M.P.	CHEMISTRY OLYMPIAD «YOUNG TALENTS»
12:05–12:20	OL	Kuramshin B.K.	ANALYSIS AND EVOLUTION OF CHEMISTRY OLYMPIADS: ALL-RUSSIAN AND OLYMPIADS OF THE LIST
12:30–14:00			Coffee-break, lunch

Chairs – Corresponding Member of RAS A.K. Buryak, Corresponding Member of RAS O.A. Shpigun, Corresponding Member of RAS R.Kh. Khamizov



SYMPOSIUM ON CHROMATOGRAPHY

Time specified in the program,
includes report and answers to questions

October 8

SYMPOSIUM ON CHROMATOGRAPHY

Hall Tsvet

Chair: Buryak A.K.

14:00–14:30	KL	Shpigun O.A.	RUSSIAN CHROMATOGRAPHY AND ITS PROSPECTS
14:30–14:50	IL	Nesterenko P.N.	CHROMATOGRAPHIC METHODS FOR SEPARATION OF ISOTOPOLOGUES
14:50–15:10	IL	Kurganov A.A.	THE PHYSICAL MEANING OF THE CORRECTED RETENTION VOLUME - POSSIBLE SOLUTION TO THE KNOWN PROBLEM
15:10–15:30	IL	Deineka V.I.	EFFECT OF PRESSURE ON SORBATE RETENTION AND DESIGN CHARACTERISTICS IN "MONOMERIC" REVERSED-PHASE HPLC
15:30–15:50	IL	Stavrianidi A.N.	MACHINE LEARNING FOR MODELING RETENTION PARAMETERS OF PHARMACEUTICAL COMPOUNDS UNDER REVERSED-PHASE AND HYDROPHILIC CHROMATOGRAPHY CONDITIONS
15:50–16:15			Coffee-break

Hall Tsvet

Chair: Buryak A.K.

16:15–16:30	OL	Pytskii I.S.	MASS SPECTROMETRY AS A TOOL FOR PHYSICAL AND CHEMICAL RESEARCH AND A MEANS FOR CONTROL OF MODERN MATERIALS
16:30–16:45	OL	Sholokhova A.Yu.	MACHINE LEARNING IN GAS CHROMATO-MASS SPECTROMETRY – A FASHIONABLE TREND OR A WORKING TOOL?
16:45–17:00	OL	Zaitseva E.A.	THEORETICAL DESCRIPTION OF INTERMOLECULAR INTERACTIONS IN GAS CHROMATOGRAPHY
17:00–17:15	OL	Makas A.L.	FAST GC SEPARATION ON MULTICAPILLARY COLUMNS IN COMBINATION WITH ATMOSPHERIC PRESSURE CHEMICAL IONIZATION MASS SPECTROMETRIC DETECTOR
17:15–17:30	OL	Kuraeva Yu.G.	STUDYING VOLATILE ORGANIC COMPOUNDS THE COMPLEX FORMATION WITH CYCLODEXTRINS IN POLYMER SYSTEMS BY REVERSE GAS CHROMATOGRAPHY METHOD
17:30–17:45	OL	Prosuntsova D.S.	FUNCTIONAL MATERIALS WITH GOLD NANOPARTICLES AS STATIONARY PHASES FOR HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY

October 8

SYMPOSIUM ON CHROMATOGRAPHY

17:45–17:50	OL	Shemyakina A.O.	DEVELOPMENT AND APPLICATION OF THE APPROACHES FOR THE DESCRIPTION OF RETENTION MECHANISM IN HYDROPHILIC INTERACTION LIQUID CHROMATOGRAPHY
17:50–17:55	OL	Karpitskii D.A.	ANALYTICAL CAPABILITIES OF SMART MATERIALS IN COMBINATION WITH HPLC METHODS IN THE ANALYSIS OF NATURAL OBJECTS
17:55–18:00	OL	Popov M.S.	THERMAL DESORPTION GAS CHROMATOGRAPHY - MASS SPECTROMETRY: A NEW APPROACH TO MONITORING THE CONTAMINATION OF PEAT BOG SOILS WITH ROCKET FUEL TRANSFORMATION PRODUCTS
18:00–18:10	OL	Sevko A.V.	'DEVELOPMENT OF MODERN OPTICAL DETECTORS FOR LIQUID CHROMATOGRAPHY' (IP SEVKO A.V.)
18:10–18:20	OL	Gubal A.R.	DEVELOPMENT OF THE FAMILY OF TIME- OF- FLIGHT MASS-DETECTORS
18:20–18:30	OL	Dyakina Yu.I.	EXPERIENCE OF USING SUPPORT MEASURES (GRANTS AND ETC.) FOR DEVELOPMENTS IN THE FIELD OF CHROMATOGRAPHIC INSTRUMENTATION' (CHROMOS ENGINEERING LTD.)

October 9

SYMPOSIUM ON CHROMATOGRAPHY

Hall Tsvet

Chair: Shpigun O.A.

14:00–14:30	KL	Joachim Weiss	ION CHROMATOGRAPHY – PAST, PRESENCE, AND FUTURE
14:30–14:50	IL	Platonov I.A.	MICROFLUIDIC ANALYTICAL SYSTEMS IN GAS ANALYSIS
14:50–15:10	IL	Zenkevich I.G.	FEATURES OF GAS CHROMATOGRAPHIC ANALYSIS OF THERMALLY UNSTABLE COMPOUNDS
15:10–15:30	IL	Beloborodova N.V.	THE ROLE OF CHROMATO-MASS SPECTROMETRIC MONITORING IN THE DEVELOPMENT AND IMPLEMENTATION OF ADVANCED TECHNOLOGIES IN INTENSIVE CARE
15:30–15:50	IL	Chernobrovkina A.V.	NOVEL EFFICIENT STATIONARY PHASES FOR HYDROPHILIC INTERACTION LIQUID CHROMATOGRAPHY AND THEIR APPLICATION
15:50–16:15			Coffee-break

Hall Tsvet

Председатель: Шпигун О.А.

16:15–16:30	OL	Baldin M.N.	GAS CHROMATOGRAPHY WITH ATMOSPHERIC AIR AS CARRIER GAS
16:30–16:45	OL	Krasilnikov I.V.	ROLE OF CHROMATOGRAPHY IN THE DEVELOPMENT OF MODERN VACCINOLOGY
16:45–17:00	OL	Zanozina I.I.	CHROMATOGRAPHY IN RESEARCH AND ANALYSIS OF PETROLEUM FEEDSTOCK, TARGET REFINED PRODUCTS, DEVELOPMENT AND IMPLEMENTATION OF MEASUREMENT METHODS WITH THE APPLICATION OF GH IN ANALYTICAL SUPPORT OF TECHNOLOGICAL PROCESSES.
17:00–17:15	OL	Alekseenko A.N.	CHROMATOGRAPHY-MASS SPECTROMETRIC (GC-MS) DETERMINATION OF HYDROXYLATED PAHS IN URINE

October 9

SYMPOSIUM ON CHROMATOGRAPHY

17:15–17:30	OL	Pautova A.K.	DETERMINATION OF AROMATIC, FATTY AND DICARBOXYLIC ACIDS IN BLOOD SERUM AND CEREBROSPINAL FLUID BY GAS AND HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY METHODS FOR THE PURPOSES OF PREDICTION AND MONITORING THE CONDITION OF PATIENTS IN REANIMATOLOGY
17:30–17:45	OL	Levkina V.V.	SORPTION OF PETROLEUM VOLATILE ORGANIC COMPOUNDS ON CARBON SORBENT FROM RICE HUSK
17:45–18:00	OL	Gashimova E.M.	EXHALED BREATH LUNG CANCER DIAGNOSTICS USING GAS CHROMATOGRAPHY-MASS SPECTROMETRY
18:00–18:05	OL	Grinevich O.I.	RETENTION OF SOME AZOLES AND AZINES IN REVERSED-PHASE AND HYDROPHILIC HPLC-MS
18:05–18:10	OL	Voronov I.S.	NON-TARGETED SCREENING OF SULFONAMIDE ANTIBIOTICS IN WASTEWATER BY HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY IN THE PRECURSOR ION SCAN MODE
18:10–18:15	OL	Bobrovskaya K.S.	FEATURES OF EXTRACTION-CHROMATOGRAPHIC SEPARATION OF YTTERBIUM AND LUTETIUM USING 2-ETHYLHEXYLPHOSPHONIC ACID MONO(2-ETHYLHEXYL) ESTER
18:15–18:20	OL	Latkin T.B.	APPLICATION OF STIR-BAR SORPTIVE EXTRACTION IN GAS CHROMATOGRAPHY-MASS SPECTROMETRIC ANALYSIS OF ARCTIC SNOW
18:20–18:25	OL	Ledyaev M.E.	APPLICATION OF THE PLANAR MICROFLUIDIC THERMAL DESORBER FOR THE ANALYSIS OF VOLATILE ORGANIC COMPOUNDS IN AMBIENT AIR

October 10

SYMPOSIUM ON CHROMATOGRAPHY

Hall Tsvet

Chair: Khamizov R.Kh.

14:00–14:30	KL	Kartsova A.A.	NEW APPROACHES TO CHIRAL CAPILLARY ELECTROPHORESIS
14:30–14:50	IL	Milyutin V.V.	SORPTION AND CHROMATOGRAPHIC METHODS FOR RECOVERY AND SEPARATION OF RADIOACTIVE ELEMENTS AND DECONTAMINATION OF LIQUID RADIOACTIVE WASTE
14:50–15:10	IL	Staroverov S.M.	ОТЕЧЕСТВЕННЫЕ СОРБЕНТЫ И КОЛОНКИ ДЛЯ АНАЛИТИЧЕСКОЙ И ПРОМЫШЛЕННОЙ ХРОМАТОГРАФИИ
15:10–15:30	IL	Yashkin S.N.	STRUCTURAL SELECTIVITY IN GAS ADSORPTION CHROMATOGRAPHY: ACHIEVEMENTS AND PROSPECTS
15:30–15:50	IL	Guskov V.Yu.	APPLICATION OF MATERIALS WITH SUPRAMOLECULAR CHIRALITY IN ADSORPTION AND CHROMATOGRAPHY
15:50–16:15			Coffee-break

Hall Tsvet

Chair: Khamizov R.Kh.

16:15–16:30	OL	Kalambet Yu.A.	SOME ALGORITHMS OF CHROMATOGRAPHIC DATA PROCESSING
16:30–16:45	OL	Khabarov V.B.	HEATRESISTANT POLYMER SORBENTS POLYNAPHTHAYLENEBENZIMIDAZOLES FOR GAS CHROMATOGRAPHIC SEPARATION AND CONCENTRATION OF VOLATILE SUBSTANCES
16:45–17:00	OL	Popov A.S.	PASSIVE SORPTION OF VOLATILE COMPOUNDS ON NEW COMPOSITE MATERIALS BASED ON SILICON CARBIDE AND THEIR SUBSEQUENT IDENTIFICATION BY GC/MS METHOD WITH THERMAL DESORPTION
17:00–17:15	OL	Reshetova E.N.	ENANTIOSELECTIVE CHROMATOGRAPHY OF DIPEPTIDES ON ADSORBENTS WITH GRAFTED ANTIBIOTICS
17:15–17:30	OL	Asnin L.D.	THEORETICAL FOUNDATIONS AND PARTICULARITIES OF THE APPLICATION OF THE VAN'T HOFF EQUATION IN CHROMATOGRAPHY

October 10

SYMPOSIUM ON CHROMATOGRAPHY

17:30–17:45	OL	Gorbovskaya A.V.	NEW MULTIFUNCTIONAL SORBENTS WITH GRAFTED ZWITTER-ION LAYER FOR THREE MODES OF CHROMATOGRAPHY
17:45–18:00	OL	Tokranov A.A.	STUDYING THE ADSORPTION PROPERTIES OF MESOPOROUS SILICA GEL DOPED WITH TERBIUM, MODIFIED WITH NICKEL AND SILVER (AG-NI/TB-MS) BY REVERSE GAS CHROMATOGRAPHY
18:00–18:15	OL	Raznitsyna V.M.	INFLUENCE OF THE NATURE OF IONIC LIQUIDS ON THE RETENTION OF AROMATIC ACIDS ON HYPERCARB™ UNDER RP HPLC CONDITIONS
18:15–18:30	OL	Rybakova E.V.	TO THE QUESTION OF TERMINOLOGY IN CHROMATOGRAPHY. DETERMINATION OF ION CHROMATOGRAPHY
18:30–20:00			Poster session

Chairs – Full Member of RAS A.Yu. Tsivadze, Prof. M.A. Vorotyntsev,
V.N. Andreev



**11TH INTERNATIONAL
FRUMKIN SYMPOSIUM ON
ELECTROCHEMISTRY**

Time specified in the program,
includes report and answers to questions

October 8

11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

Hall Frumkin

Chair: Zolotukhina E.V., Uvarov N.F.

14:00–14:30	KL	Hillman Robert	ELECTRON TRANSFER REACTIONS AND ELECTROACTIVE MATERIALS FOR LATENT FINGERPRINT VISUALIZATION
14:30–14:50	IL		
14:50–15:10	IL	Guterman V.E.	PLATINUM-CONTAINING ELECTROCATALYSTS FOR HYDROGEN-AIR PEMFC: SYNTHESIS AS A SCIENCE, MICROSTRUCTURE, AND ELECTROCHEMICAL PERFORMANCE
15:10–15:30	IL	Kondratev V.V.	INTERCALATION PROCESSES IN ALXV2O5 CATHODES IN MG ²⁺ - AND ZN ²⁺ - CONTAINING AQUEOUS ELECTROLYTES
15:30–15:45	OL	Kuriganova A.B.	PRODUCTION OF ELECTRO- AND CATALYTICALLY ACTIVE MATERIALS BY PULSE ELECTROLYSIS
15:45–16:00	OL	Belenov S.V.	INFLUENCE OF HEAT TREATMENT ON THE STRUCTURE AND ACTIVITY OF PTCU/C ELECTROCATALYSTS ON DIFFERENT CARBON CARRIERS
16:00–16:30			Coffee-break
<i>Chair: Guterman V.E., Kondratev V.V.</i>			
16:30–16:45	OL	Korchagin O.V.	TOLERANT CATALYSTS FOR HYDROGEN OXIDATION IN ALKALINE ENVIRONMENTS
16:45–17:00	OL	Manzhos R.A.	ELECTROLYTIC DISPERSION OF ALLOYS. PRODUCTION OF COMPOSITE PDNI-ELECTROCATALYSTS OF METHANOL OXIDATION REACTION
17:00–17:15	OL	Kochergin V.K.	ONE-STEP PLASMA-ASSISTED ELECTROCHEMICAL SYNTHESIS OF NANOCOMPOSITES OF GRAPHENE STRUCTURES WITH COBALT/MANGANESE OXIDES – PROMISING ELECTROCATALYSTS OF OXYGEN REDUCTION REACTION
17:15–17:30	OL	Kholin K.V.	ELECTROCATALYTIC REDUCTION OF CO ₂ WITH COPPER-CONTAINING NANOSTRUCTURED ELECTRODE AND SODIUM PECTATE COMPLEXES

October 8

11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

17:30–17:45	OL	Khanin D.A.	PREPARATION OF PD(Mo ₂ c) COMPOSITE BY PALLADIUM NON-CURRENT DEPOSITION METHOD, ITS CATALYTIC PROPERTIES AND STABILITY IN THE ANODIC POTENTIAL REGION
17:45–18:00	OL	Kokin A.A.	SPECIFIC FUNCTIONING OF BIFUNCTIONAL ELECTROCATALYSTS BASED ON NICKEL SULPHIDE UNDER CONDITIONS OF CYCLIC CHANGE OF THE ELECTRODE PROCESS
18:00–18:15	OL	Kushnir S.E.	PHOTONIC CRYSTAL STRUCTURES BASED ON ANODIC ALUMINIUM OXIDE
18:15–18:30	OL	Sapoletova N.A.	PHOTOCATALYSTS BASED ON ANODIC TITANIA PHOTONIC CRYSTALS
18:30–20:00			Poster session

Hall Rebinder

Chair: Kozaderov O.A., Safonov V.A.

14:00–14:30	KL		
14:30–14:50			
14:50–15:10	IL	Skundin A.M.	FEATURES OF INTERPRETING THE RESULTS OF ELECTROCHEMICAL EXPERIMENTS
15:10–15:30	IL	Krivenko A.G.	PROBLEMS OF CORRECT MEASUREMENTS OF NANOSTRUC-TURED ELECTRODES
15:30–15:50	IL	Astafev E.A.	ELECTROCHEMICAL NOISE: OBJECTS AND PROBLEMS
15:50–16:30			Coffee-break

Chair: Astafev E.A., Smirnova N.V.

16:30–16:45	OL	Safonov V.A.	A MODEL DESCRIPTION OF THE POTENTIAL DISTRIBUTION AT THE INTERFACE OF A RENEWABLE GRAPHITE ELECTRODE WITH ELECTROLYTE SOLUTIONS
16:45–17:00	OL	Spasov D.D.	STUDY OF PLATINUM ELECTROCATALYSTS ON CARBON SUPPORT USING FRUMKIN ADSORPTION ISOTHERMS
17:00–17:15	OL	Kozaderov O.A.	KINETICS OF NUCLEATION AND GROWTH DURING CATHODIC CO-DEPOSITION OF ZINC AND NICKEL FROM AMMONIUM CHLORIDE ELECTROLYTES
17:15–17:30	OL	Filippov V.L.	COPPER GALVANIC REPLACEMENT PROCESS IN ETHALINE-BASED SOLUTIONS

October 8

11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

17:30–17:45	OL	Shestakov A.F.	QUANTUM CHEMICAL MODELLING REDUCTIVE METALLATION OF ORGANIC CATHODE MATERIALS
17:45–18:00	OL	Mareev S.A.	TWO-DIMENSIONAL MODEL OF ANODIC OXIDATION PROCESS OF ORGANIC POLLUTANTS WITH BULK ANODE
18:00–18:15	OL	Stulov Yu.V.	THEORETICAL-EXPERIMENTAL STUDY OF CHARGE TRANSFER PROCESS IN SAMARIUM-CONTAINING MELTS
18:15–18:30	OL	Popov A.G.	AUTOENCODER NETWORK FOR ANALYSIS OF ELECTROCHEMICAL IMPEDANCE OF LITHIUM-ION BATTERIES
18:30–20:00			Poster session

October 9

11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

Hall Frumkin

Chair: Nekrasov A.A., Safonov V.A.

14:00–14:30	KL	Lev Ovadia	HYDROGEN PEROXIDE SOL GEL PROCESSING OF LI, NA, AND K METAL ION BATTERY ANODES
14:30–14:50	IL	Medvedev D.A.	CHEMICAL AND ELECTROCHEMICAL ASPECTS OF UTILIZING THE BUFFER LAYERS IN SOLID OXIDE FUEL CELLS
14:50–15:10	IL	Uvarov N.F.	HYBRID NANOCOMPOSITE SOLID ELECTROLYTES
15:10–15:30	IL	Gribkova O.L.	ELECTROCHEMICAL SYNTHESIS OF NEW PHOTOCONDUCTIVE MATERIALS BASED ON POLY-3,4-ETHYLENEDIOXYTHIOPHENE
15:30–15:45	OL	Lebedeva M.V.	POLYANILINE/CARBON COMPOSITE AS ELECTRODES FOR SUPERCAPACITORS
15:45–16:00	OL	Kuzmin S.M.	ELECTROCHEMICAL METHODS FOR PORPHYRIN SEMICONDUCTOR FILMS FORMATION AND INVESTIGATION
16:00–16:30			Coffee-break
<i>Chair: Gribkova O.L., Medvedev D.A.</i>			
16:30–16:45	OL	Kabanova V.A.	ELECTRODEPOSITION OF PHOTOACTIVE LAYERS BASED ON POLYPYRROLE AND ZINC PHTHALOCYANINATE
16:45–17:00	OL	Krokhalev A.V.	INFLUENCE OF PHASE COMPOSITION OF MATERIALS OF "TI-FE" SYSTEM WITH INCREASED TITANIUM CONTENT ON THEIR HYDROGEN CAPACITY
17:00–17:15	OL	Orlova E.I.	SYNTHESIS AND PHYSICAL PROPERTIES OF THE OXYGEN-CONDUCTING MLN ₄ M ₀ 3O ₁₅ F (M = LI, NA, K, LN = LA-DY) COMPOUNDS FAMILY
17:15–17:30	OL	Gavrilin I.M.	ELECTROCHEMICAL FORMATION OF NANOSTRUCTURES BASED ON GERMANIUM
17:30–17:45	OL	Ivanova N.A.	APPLICABILITY OF STRUCTURED CARBON MATERIALS FOR PERFORMANCE AND DURABILITY IMPROVEMENT OF THE PEMFC ELECTRODES

October 9

11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

17:45–18:00	OL	Gnedenkov A.S.	HYBRID COATINGS OF A NEW GENERATION WITH THE FUNCTION OF TARGETED DELIVERY OF ACTIVE COMPONENTS ON THE SURFACE OF MAGNESIUM ALLOYS
18:00–18:15	OL	Grushevskaya S.N.	PHOTOELECTROCHEMISTRY OF COPPER OXIDES ANODICALLY FORMED ON BRASSES WITH DIFFERENT PHASE COMPOSITION
18:15–18:30	OL	Brodskii V.A.	THE USE OF ELECTRODE MATERIALS BASED ON PBO ₂ DOPED WITH TiO ₂ AS A REPLACEMENT FOR RTO ANODE IN THE ELECTROFLOTATION PROCESS
18:30–20:00			Poster session
Hall Rebinder			
<i>Chair: Burmistrova D.A., Molotkovskii R.Yu.</i>			
14:00–14:30	KL		
14:30–14:50			
14:50–15:10	IL	Akimov S.A.	PORE FORMATION IN LIPID MEMBRANES: INFLUENCE OF TENSION, SUPPORT, SOLVENT
15:10–15:30	IL	Sokolov V.S.	THE FAST TRANSFER OF PROTONS LIBERATED FROM PHOTOACTIVATE COMPOUND ON THE BOUNDARY OF THE LIPID MEMBRANE
15:30–15:50	IL	Vil V.A.	ELECTROCHEMICALLY MEDIATED FORMATION OF C-C AND C-HET BONDS
15:50–16:30			Coffee-break
<i>Chair: Akimov S.A., Vil V.A.</i>			
16:30–16:45	OL	Burmistrova D.A.	REDOX-TRANSFORMATIONS OF H ₂ S, RSH AND RSSR IN THE PRESENCE OF ORGANOCATALYSTS
16:45–17:00	OL	Ustyuzhanin A.O.	ELECTROCHEMICAL CARBOXYLATION USING CARBON DIOXIDE
17:00–17:15	OL	Polyakov M.V.	ELECTROCHEMICAL BEHAVIOR OF CYCLIC OZONIDE AND AMINOPEROXIDE IN ACETONITRILE MEDIUM ON GOLD
17:15–17:30	OL	Molotkovskii R.Yu.	THE EFFECTIVENESS OF PROTEIN-FREE FUSION OF LIPID DROPLETS IS DETERMINED BY THE LIPID COMPOSITION OF THEIR SHELLS

October 9

11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

17:30–17:45	OL	Sumarokova M.V.	CHANGING IN THE SHAPE OF THE LIPID MEMBRANE BY INTERACTION OF AMPHIPATHIC HELICES AND CONICAL LIPIDS
17:45–18:00	OL	Pavlov R.V.	IMPACT OF S-PROTEIN FUSION PEPTIDES OF CORONA-VIRUSES ON THE STABILITY AND SHAPE OF LIPID MEMBRANES
18:00–18:15	OL	Pinigin K.V.	MOLECULAR DYNAMICS METHOD FOR DETERMINATION OF ELASTIC PARAMETERS OF MULTICOMPONENT LIPID MEMBRANES
18:30–20:00			Poster session

October 10

11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

Hall Frumkin

Chair: Krivenko A.G., Skundin A.M.

14:00–14:30	KL	Aurbach Doron	THE CHALLENGE OF RECHARGEABLE BATTERIES WITH VERY HIGH ENERGY DENSITY AND PROLONGED CYCLE LIFE: FROM BASIC SCIENCE TO PRACTICAL DEVICES
14:30–14:50	IL	Kazarinov I.A.	FLOW BATTERIES ON THE BASIS OF QUINONE AND ANTHRAQUINONE DERIVATIVES FOR LARGE-SCALE ACCUMULATION AND STORAGE OF ELECTRIC ENERGY
14:50–15:10	IL	Smirnova N.V.	SUPERCAPACITORS BASED ON CARBON MATERIALS OBTAINED FROM WASTE PROCESSING PLANT RAW MATERIALS
15:10–15:30	IL	Stakhanova S.V.	APPROACHES TO THE DEVELOPMENT OF ELECTROLYTES FOR SUPERCAPACITORS WITH EXTENDED OPERATION TEMPERATURE RANGE
15:30–15:45	OL	Kushkhov Kh.B.	INVESTIGATION THE JOINT ELECTROCHEMICAL REDUCTION MECHANISM OF RARE-EARTH IONS AND IRON TRIAD METALS IN THE KCL-NACL-CSCL EUTECTIC MELT
15:45–16:00	OL	Kuznetsov S.A.	NIOBIUM AND TANTALUM IN MOLTEN SALTS: TWINS OR BROTHERS?
16:00–16:30			Coffee-break
<i>Chair: Kazarinov I.A., Smirnova N.V.</i>			
16:30–16:45	OL	Nefedkin S.I.	PHYSICO-CHEMICAL METHODS OF INVESTIGATIONS IN ELECTROCHEMICAL POWER ENGINEERING TECHNOLOGIES
16:45–17:00	OL	Shcheglov P.A.	FAST-ACTIVATING RESERVE POWER SOURCES: THE ROLE OF PHYSICO-CHEMICAL PROPERTIES OF ELECTRODE MATERIALS IN THE IMPROVEMENT OF DISCHARGE PERFORMANCE
17:00–17:15	OL	Rychagov A.Yu.	WAYS TO SUPPRESS OF SELF-DISCHARGE IN A NON-FLOWING ZINC-BROMINE BATTERY
17:15–17:30	OL	Nikitina V.A.	THE INFLUENCE OF THE CRYSTAL STRUCTURE OF NICKEL AND IRON-BASED ELECTROCATALYSTS ON THEIR ACTIVITY IN OXYGEN EVOLUTION REACTION IN ALKALINE MEDIA

October 10

11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

17:30–17:45	OL	Ulikhin A.S.	LITHIUM-ION CONDUCTIVE MATERIALS BASED ON N-METHYL-N-PROPYLPYPERIDINIUM SALT
17:45–18:00	OL	Chernysheva D.V.	N, S CO-DOPED CARBON ELECTRODE MATERIALS FROM PLANT BIOMASS CHEMICAL PROCESSING WASTES
18:00–18:15	OL	Asmolov E.S.	SELF-DIFFUSIOPHORESIS OF CATALYTIC MICROSWIMMERS
18:15–18:30	OL	Potapov A.M.	ELECTROCHEMICAL SIMULATORS OF Am ²⁺ AND Cm ³⁺ IONS IN A MOLTEN LiCl-KCl EUTECTIC
18:30–20:00			Poster session

Hall Rebinder

Chair: Mikhelson K.N.

14:00–14:30	KL		
14:30–14:50			
14:50–15:10			
15:10–15:30			
15:30–15:50	IL	Ermakov S.S.	CURRENT INTERRUPTION TECHNIQUES IN ELECTROANALYSIS
15:50–16:30			Coffee-break

Chair: Ermakov S.S., Stakhanova S.V.

16:30–16:45	OL	Mikhelson K.N.	ION-SELECTIVE ELECTRODES IN NON-ZERO CURRENT MODE: CAN WE USE THE NERNST EQUATION IF CURRENT FLOWS THROUGH THE ELECTRODE?
16:45–17:00	OL	Zilberg R.A.	ENANTIOSELECTIVE SENSORS: ANALYTICAL CAPABILITIES AND PROSPECTS
17:00–17:15	OL	Bashkirov P.V.	SENSING OF MOLECULES AND MOLECULAR MACHINES WITH ELASTIC NANOPORES
17:15–17:30	OL	Keresten V.M.	THE STUDY OF THE POTENTIOMETRIC RESPONSE OF ION-SELECTIVE ELECTRODES CONTAINING TWO NEUTRAL IONOPHORES AND ION-EXCHANGER
17:30–17:45	OL	Porfireva A.V.	CONDITIONS FOR DEPOSITING OF ELECTROACTIVE COATINGS BASED ON DYES FROM DEEP EUTECTIC SOLVENTS

October 10

11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

17:45–18:00	OL	Kolokolov D.I.	IONIC MOBILITY IN THE COMPOSITE (IONIC LIQUIDS)@MOF ELECTROLYTES PROBED BY SOLID STATE NMR
18:00–18:15	OL	Yusupova A.R.	STRUCTURE AND PROPERTIES OF SOLVATE COMPLEX OF LITHIUM TETRACHLOROALUMINATE WITH SULFUR DIOXIDE
18:15–18:30	OL	Aleshina V.Kh.	GALVANIC METALLIZATION OF HOLES OF MULTILAYER PRINTED CIRCUIT BOARDS

October 11

11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

Hall Frumkin

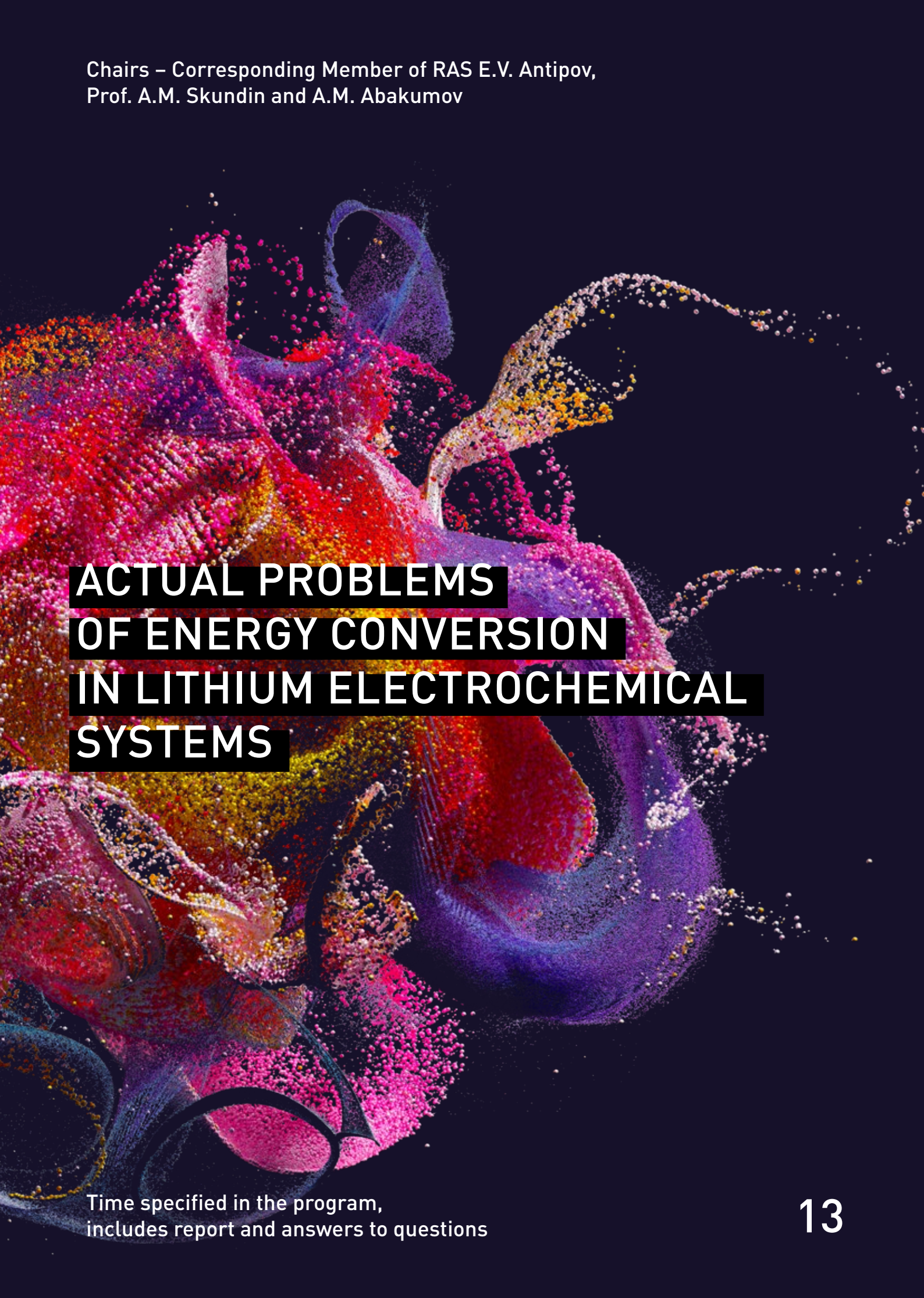
Chair: Zolotukhina E.V., Pismenskaya N.D.

9:00–9:30	KL	Rubinstein I.	ELECTROKINETIC LENGTH SELECTION IN ELECTRODEPOSITION
9:30–10:00	KL	Biesheuvel M.	RESOLVING SOME CONTROVERSIES IN WATER AND ION TRANSPORT IN POLYMER MEMBRANES FOR WATER DESALINATION: HOW DO IONS AND WATER MOLECULES MOVE AND PARTITION?
10:00–10:20	IL	Nikonenko V.V.	CONCENTRATION POLARIZATION IN ELECTROMEMBRANE SYSTEMS
10:20–10:35	OL	Filippov A.N.	PERMEABILITY OF CHARGED MACROPOROUS GLASSES
10:35–10:50	OL	Ryzhkov I.I.	ELECTRO / BAROMEMBRANE PROCESS FOR SEPARATION OF IONIC DYES SOLUTIONS USING ELECTRICALLY CONDUCTIVE MEMBRANES

Chair: Ryzhkov I.I., Filippov A.N.

11:00–11:15	OL	Vorotyntsev M.A.	EXPRESS METHOD FOR DETERMINATION OF CROSSOVER PARAMETERS OF SOLUTE ELECTROACTIVE COMPONENTS
11:15–11:30	OL	Pismenskaya N.D.	MECHANISMS OF ION TRANSFER IN ION EXCHANGE MEMBRANE/AMPHOLYTE SOLUTION SYSTEMS IN ELECTRODIALYSIS
11:30–11:45	OL	Gorobchenko A.D.	NON-STATIONARY PHOSPHATE TRANSPORT THROUGH AN ANION-EXCHANGE MEMBRANE DURING ELECTRODIALYSIS: EXPERIMENTS AND MODELING
11:45–12:00		Krykin M.D.	THE APPEARANCE OF ELECTRICAL PHENOMENA IN AN ENERGETIC SUBSTANCE UNDER SHOCK LOADING
12:30–14:00			Coffee-break, lunch

Chairs – Corresponding Member of RAS E.V. Antipov,
Prof. A.M. Skundin and A.M. Abakumov



**ACTUAL PROBLEMS
OF ENERGY CONVERSION
IN LITHIUM ELECTROCHEMICAL
SYSTEMS**

Time specified in the program,
includes report and answers to questions

October 8

ACTUAL PROBLEMS OF ENERGY CONVERSION IN LITHIUM ELECTROCHEMICAL SYSTEMS

Hall Semenov

Chair: Antipov E.V., Kosova N.V.

14:00–14:30	KL	Abakumov A.M.	LAYERED OXIDE CATHODES FOR LI-ION BATTERIES: RESEARCH DIRECTIONS
14:30–14:50	IL	Khasanova N.R.	НОВЫЕ ВЫСОКОЕМКИЕ АНОДНЫЕ МАТЕРИАЛЫ ДЛЯ НАТРИЙ-ИОННЫХ АККУМУЛЯТОРОВ
14:50–15:10	IL	Kornilov D. Yu.	IMPROVING THE SAFETY OF LITHIUM-ION BATTERIES: PROTECTION STEPS
15:10–15:30	IL	Likhonosov S.D.	MAIN RESULTS ON DEVELOPMENT OF LITHIUM-ION BATTERIES FOR SPACE AND SPECIAL PURPOSE AND PLANS OF MODERNISATION OF THEIR CHARACTERISTICS
15:30–15:50		Discussion	
15:50–16:15			Coffee-break

Hall Semenov

Chair: Likhonosov S.D., Kornilov D.Yu.

16:15–16:30	OL	Semenikhin O.A.	STUDY OF ALLOY FORMATION AT ALUMINUM ANODES OF LI-ION BATTERIES USING IMPEDANCE SPECTROSCOPY
16:30–16:45	OL	Luchkin S.Yu.	SOLID ELECTROLYTE INTERPHASE FORMATION IN THE LI-ION BATTERY
16:45–17:00	OL	Tashlanov M.Yu.	ANODE MATERIALS AND SOLID ELECTROLYTES BASED ON OXYGEN-DEFICIENT PYROCHLORES FOR POTASSIUM-ION BATTERIES
17:00–17:15	OL	CherkaShchenko I.R.	MIXED NIOBIUM-VANADIUM PHOSPHATES AS ANODE MATERIALS FOR METAL-ION BATTERIES
17:15–17:30	OL	Kudryashova Yu.O.	GERMANIUM NANOSTRUCTURES FOR LITHIUM- AND SODIUM-ION BATTERIES
17:30–17:45	OL	Boev A.O.	FIRST-PRINCIPLES STUDY OF SURFACE SEGREGATION IN LICOO2
17:45–18:00	OL	Komaiko A.I.	QUANTIFYING THE IMPACT OF PHASE TRANSITION-RELATED POLARIZATION LOSSES ON METAL-ION BATTERY PERFORMANCE AT LOW TEMPERATURES

October 8

ACTUAL PROBLEMS OF ENERGY CONVERSION IN LITHIUM ELECTROCHEMICAL SYSTEMS

18:00–18:15	OL	Borisevich S.S.	EVALUATION OF REDOX POTENTIALS OF ELECTROLYTES OF LITHIUM-ION BATTERIES BY METHODS OF COMPUTATIONAL CHEMISTRY
18:15–18:30	OL	Khechinashvili A.R.	SCIENTIFIC AND METHODOLOGICAL APPROACHES TO LITHIUM-ION STORAGE BATTERY SAFETY AND FAULT TOLERANCE IMPROVEMENT

October 9

ACTUAL PROBLEMS OF ENERGY CONVERSION IN LITHIUM ELECTROCHEMICAL SYSTEMS

Hall Semenov

Chair: Ivanishchev A.V., Yarmolenko O.V.

14:00–14:30	KL	Kulova T.L.	ANODE-FREE LITHIUM AND SODIUM BATTERIES
14:30–14:50	IL	Nedoluzhko A.I.	SILICON ANODE MATERIALS FOR LITHIUM-ION BATTERIES WITH THE INCREASED SPECIFIC ENERGY
14:50–15:10	IL	Fedotov S.S.	DEVELOPMENT OF NEW-GENERATION ELECTRODE MATERIALS FOR NA-ION BATTERIES
15:10–15:30	IL	Bushkova O.V.	CHEMICAL PROCESSES AT THE ELECTRODE/ELECTROLYTE INTERFASE IN LITHIUM-ION BATTERIES
15:30–15:50	IL	Kosova N.V.	HIGH-ENERGY ELECTRODE MATERIALS WITH DISORDERED ROCK SALT STRUCTURE
15:50–16:15			Coffee-break

Hall Semenov

Chair: Bushkova O.V., Skundin A.M.

16:15–16:30	OL	Savina A.A.	HIGH ENERGY DENSITY Ni-RICH LAYERED CATHODE MATERIALS WITH THE IMPROVED MICROSTRUCTURE
16:30–16:45	OL	Moiseev I.A.	MICROCRACK GROWTH SUPPRESSION IN Mg-SUBSTITUTED Ni-RICH NMCS FOR Li-ION BATTERIES
16:45–17:00	OL	Katorova N.S.	ORIGINS OF DEGRADATION OF LITHIUM-ION BATTERY WITH $\text{LiNi}_{0.6}\text{Mn}_{0.2}\text{Co}_{0.2}\text{O}_2$ LAYERED OXIDE AND GRAPHITE
17:00–17:15	OL	Babkin A.V.	SPHERICAL COMPOSITE MICROPARTICLES LiFePO_4 FOR HIGH-POWER LITHIUM-ION BATTERIES
17:15–17:30	OL	Zakharkin M.V.	POLYANIONIC CATHODE MATERIALS FOR SODIUM-ION BATTERIES BASED ON MN AND FE
17:30–17:45	OL	Shevchenko V.A.	EFFECT OF Ni/Fe/Mn RATIO ON ELECTROCHEMICAL PROPERTIES OF THE $\text{O}_3\text{-NaNi}_{1-x-y}\text{Fe}_x\text{Mn}_y\text{O}_2$ ($0.25 \leq x, y \leq 0.75$) CATHODE MATERIALS FOR Na-ION BATTERIES
17:45–18:00	OL	Matsaev B.A.	NOVEL PHOSPHATES $\alpha\text{-Na}_x\text{Fe}_{1-y}\text{Cr}_y\text{PO}_4$ AS CATHODE MATERIALS FOR SODIUM-ION BATTERIES

October 9

ACTUAL PROBLEMS OF ENERGY CONVERSION IN LITHIUM ELECTROCHEMICAL SYSTEMS

18:00–18:15	OL	Marshenya S.N.	SYNTHESIS, STRUCTURE AND ELECTROCHEMICAL PERFORMANCE OF A NEW POTASSIUM-ION SOLID-CONDUCTOR KSCPO ₄ F WITH KTIPO ₄ STRUCTURE TYPE
18:15–18:30	OL	Nazarov E.E.	MORPHOLOGY DESIGN FOR THE PRODUCTION OF HIGH VOLUMETRIC ENERGY DENSITY TRIPHYLITE-TYPE CATHODE MATERIALS

October 10

ACTUAL PROBLEMS OF ENERGY CONVERSION IN LITHIUM ELECTROCHEMICAL SYSTEMS

Hall Semenov

Chair: Abakumov A.M., Nedoluzhko A.I.

14:00–14:30	KL	Drozhzhin O.A.	PHOSPHATE CATHODE MATERIALS FOR LITHIUM-ION BATTERIES AND METHODS FOR THEIR IMPROVEMENT
14:30–14:50	IL	Ivanishchev A.V.	DIAGNOSTICS OF ELECTROCHEMICAL PROCESSES IN HETEROGENEOUS INTERCALATION ELECTRODE MATERIALS AS A BASIS FOR IMPROVING OF THEIR CHARACTERISTICS
14:50–15:10	IL	Yarmolenko O.V.	PERSPECTIVE GEL ELECTROLYTES FOR LITHIUM POWER SOURCES
15:10–15:30	IL	Tao Liu	STRUCTURAL MODULATION AND LARGE-SCALE PREPARATION OF PHOSPHATE-BASED COMPOUNDS FOR SODIUM ION BATTERIES
15:30–15:50	IL	Sergeev V.G.	WATER-SOLUBLE POLYMER BINDERS FOR LITHIUM-ION BATTERY ELECTRODES
15:50–16:15			Coffee-break

Hall Semenov

Chair: Levin O.V., Astafev E.A.

16:15–16:30	OL	Morkhova E.A.	THEORETICAL AND EXPERIMENTAL STUDY OF CONDUCTIVITY IN THE $\text{Na}_6\text{M}_2(\text{CO}_3)_4\text{SO}_4$ (M = Mg, Mn, Fe, Co, Ni) STRUCTURES
16:30–16:45	OL	Ilina E.A.	PROSPECTS FOR THE TRANSITION TO THIN-FILM SOLID ELECTROLYTES IN THE CREATION OF ALL-SOLID-STATE BATTERIES
16:45–17:00	OL	Slesarenko A.A.	STUDY OF ELECTROLYTE SYSTEMS WITH COMPETITIVE ION TRANSPORT IN MIXED SOLVENTS ACCORDING TO NMR AND QUANTUM CHEMICAL MODELING DATA
17:00–17:15	OL	Slesarenko N.A.	MECHANISM OF IONIC TRANSPORT IN NANOCOMPOSITE POLYMER ELECTROLYTES WITH THE INTRODUCTION OF IONIC LIQUID ACCORDING TO NMR DATA
17:15–17:30	OL	Klimov V.V.	QUASI-SOLID-STATE POLYMER ELECTROLYTES FOR LI-ION BATTERIES
17:30–17:45	OL	Shmatova O.I.	FLUORINATED ELECTROLYTES FOR LITHIUM-ION BATTERIES

October 10

ACTUAL PROBLEMS OF ENERGY CONVERSION IN LITHIUM ELECTROCHEMICAL SYSTEMS

17:45-18:00	OL	Shraer S.D.	THE CORRELATION BETWEEN SODIUM IONS STORAGE MECHANISM AND ANIONIC COMPOSITION IN KTP-NaVPO ₄ F _{1-x} O _x
18:00-18:15	OL		
18:15-18:30	OL		
18:30-20:00			Poster session

October 11

ACTUAL PROBLEMS OF ENERGY CONVERSION IN LITHIUM ELECTROCHEMICAL SYSTEMS

Hall Semenov

Chair: Drozhzhin O.A., Кулова Т.Л.

9:00–9:30	KL	Levin O.V.	CONTROL OF CONDUCTIVITY WINDOW OF POTENTIALRESISTIVE MATERIALS FOR PROTECTION OF LITHIUM-ION BATTERIES
9:30–10:00	IL	Aksenov D.A.	ATOMISTIC MODELING OF INTERFACES AND IONIC TRANSPORT IN METAL-ION BATTERIES
10:00–10:20	IL	Makanova N.A.	DEVELOPMENT OF LOW-TEMPERATURE SUPERCAPACITORS WITH BIO-WASTE DERIVED ACTIVATED CARBON AND SAFE ELECTROLYTES
10:20–10:40	IL	Astafev E.A.	RUSSIAN EQUIPMENT FOR ELECTROCHEMICAL RESEARCH SMARTSTAT
10:40–11:00	IL	Dai Changsong	RECYCLING OF SPENT LITHIUM ION BATTERIES INCLUDING ELECTROLYTE AND CATHODE MATERIALS
12:30–14:00			Coffee-break, lunch

Chairs – Full Member of RAS S.N. Kalmykov,
Corresponding Member of RAS A.A. Trifonov



f-BLOCK ELEMENTS: RECENT ADVANCES AND CHALLENGES

Time specified in the program,
includes report and answers to questions

October 8

SYMPOSIUM F-BLOCK ELEMENTS RECENT ADVANCES AND CHALLENGES

Hall Curie

Chair: Konchenko S.N.

14:00–14:30	KL	Nenajdenko V.G.	DESIGN AND SYNTHESIS OF PHENANTHROLINEDIAMIDES FOR SEPARATION OF f-BLOCK ELEMENTS
14:30–14:50	IL	Utochnikova V.V.	LUMINESCENT THERMOMETER: FROM FUNDAMENTALS TO THE PROTOTYPE
14:50–15:10	IL	Bhattacharyya A.	DIFFERENT APPROACHES TO IMPROVE AMERICIUM AND CURIUM SEPARATION
15:10–15:30	IL	Zamoryanskaya M.V.	STUDY OF THE COMPOSITION AND STRUCTURE OF OXIDE MATERIALS USING LOCAL CATHODOLUMINESCENCE METHOD
15:30–15:50	IL	Mitrofanov A.A.	THE QUESTIONS OF DEVELOPMENT OF COMPUTATIONAL CHEMISTRY METHODS FOR f-ELEMENTS
15:50–16:15			Coffee-break

Hall Curie

Chair: Bhattacharyya A.

16:15–16:30	OL	Puntus L.N.	CAN PI-BONDED LIGANDS BE AN EFFECTIVE LIGHT-HARVESTING ANTENNA FOR LANTHANIDE COMPLEXES?
16:30–16:45	OL	Orlova A.V.	LANTHANIDE PYRENATES: FEATURES OF REACHING A HIGH QUANTUM YIELD IN POWDER AND OBTAINING SENSORY MATERIALS
16:45–17:00	OL	Brel V.K.	PHOSPHORUS- AND PHOSPHORUS-NITROGEN LIGANDS AS EFFECTIVE COMPLEXING AGENTS FOR THE CREATION OF LIGHT-EMITTING MATERIALS
17:00–17:15	OL	Golubina E.N.	INTENSIFICATION OF REE EXTRACTION BY LOCAL VIBRATION IN THE DYNAMIC INTERFACIAL LAYER
17:15–17:30	OL	Tcelykh L.O.	Tb-Eu BENZOATES FOR LUMINESCENT THERMOMETRY
17:30–17:45	OL	Pushkin D.V.	NEW CINNAMATE-CONTAINING URANIL COMPLEXES
18:30–20:00			Poster session

October 9

SYMPOSIUM F-BLOCK ELEMENTS RECENT ADVANCES AND CHALLENGES

Hall Curie

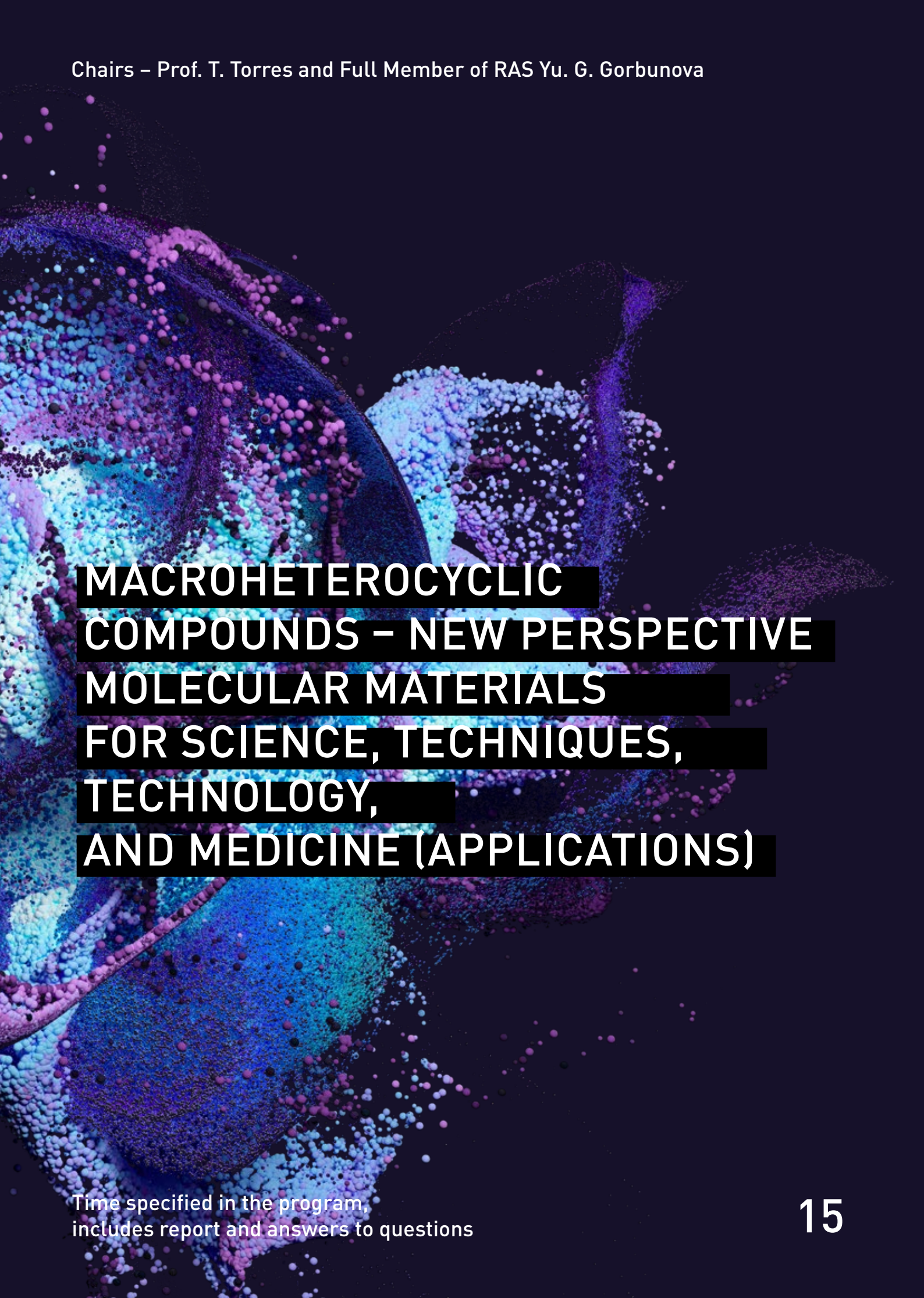
Chair: Nenajdenko V.G.

14:00–14:30	KL	Konchenko S.N.	d/f-POLYPNICTIDES DERIVED BY NON-CLASSICAL Ln(III) COMPOUNDS
14:30–14:50	IL	Petrov V.G.	LIQUID-LIQUID EXTRACTION TECHNOLOGIES FOR SEPARATION TRIVALENT f-ELEMENTS IN THE NUCLEAR FUEL CYCLE
14:50–15:10	IL	Deyneko D.V.	PHOSPHORS – REE ³⁺ ACTIVATED STRONTIUM PHOSPHATES: CRITERIA FOR PROPERTY FORMATION
15:10–15:30	IL	Taydakov I.V.	HALOGENATION OF LIGANDS AS A WAY TO CONTROL THE LUMINESCENCE EFFICIENCY OF EUROPIUM(III) 1,3-DIKETONATES
15:30–15:50	IL	Roitershtein D.M.	UNIVERSAL TOOLS FOR RARE EARTH COMPLEX DESIGN: N-HETEROCYCLIC TRIDENTATE LIGANDS
15:50–16:15			Coffee-break

Hall Curie

Chair: Zamoryanskaya M.V.

16:15–16:30	OL	Smirnova K.S.	STRUCTURAL FEATURES OF PHOTOLUMINESCENT RARE EARTH METALS COMPLEXES BASED ON β -ENAMINDIONE AND ISOTHIAZOLE DERIVATIVES
16:30–16:45	OL	Karpov K.V.	DEEP-LEARNING ENHANCED DESIGN OF COMPLEXING AGENTS FOR REPROCESSING OF SPENT NUCLEAR FUEL
16:45–17:00	OL	Vostrikova K.E.	PROBING THE STRENGTH OF MAGNETIC EXCHANGE COUPLING IN LANTHANIDE – RADICAL SYSTEM
17:00–17:15	OL	Sinitza D.K.	COMPLEXES OF RARE-EARTH ELEMENTS WITH IMINOPHOSPHONAMIDE LIGANDS: SYNTHESIS, PROPERTIES, REACTIVITY
17:15–17:30	OL	Mereshchenko A.S.	LUMINESCENT HETEROMETALLIC Eu(III)-BASED TEREPHTHALATE MOFS
17:30–17:45	OL	Antipov S.V.	STRUCTURAL AND DYNAMICAL PROPERTIES OF THE ThF ₄ -LiF-KF MELT ALTERED BY Mg CATIONS



**MACROHETEROCYCLIC
COMPOUNDS – NEW PERSPECTIVE
MOLECULAR MATERIALS
FOR SCIENCE, TECHNIQUES,
TECHNOLOGY,
AND MEDICINE (APPLICATIONS)**

Time specified in the program,
includes report and answers to questions

October 8

SYMPOSIUM MACROHETEROCYCLIC COMPOUNDS – NEW PERSPECTIVE MOLECULAR MATERIALS FOR SCIENCE, TECHNIQUES, TECHNOLOGY, AND MEDICINE (APPLICATIONS)

Hall Chugaev

Chair: Tomas Torres

14:00–14:30	KL	Roberto Paolesse	PORPHYRINOIDS BASED CHEMICAL SENSORS
14:30–14:50	IL	Kalinina M.A.	COMBINATORIAL 2D-3D SELF-ASSEMBLY OF FUNCTIONAL HYBRID MATERIALS
14:50–15:10	IL	Martynov A.G.	SUPRAMOLECULAR TAILORING OF THE MAGNETIC PROPERTIES OF LANTHANIDE TRISPHTHALOCYANINATES
15:10–15:30	IL	Pakhomov G.L.	SYNTHETIC AND NATURAL ETIOPORPHYRINS AS THIN-FILM MATERIALS FOR OPTOELECTRONIC APPLICATIONS
15:30–15:50	OL	Tameev A.R.	PHOTOCONDUCTIVITY, ELECTROLUMINESCENCE AND ELECTRON MOBILITY IN COMPOSITES WITH SEMISYNTHETIC MACROCYCLIC COMPOUNDS
15:50–16:15			Coffee-break

Hall Chugaev

Chair: Stuzhin P.A.

16:15–16:30	OL	Safonova E.A.	PHOSPHORUS (V) TETRAPYRROLIC COMPLEXES: FROM SYNTHESIS TO BIOMEDICAL APPLICATIONS
16:30–16:45	OL	Zvyagina A.I.	SUPRAMOLECULAR ASSEMBLY OF ULTRATHIN HYBRIDS BASED ON GRAPHENE OXIDE AND ZINC PORPHYRINATE FOR ORGANIC ELECTRONICS
16:45–17:00	OL	Volostnykh M.V.	OPTICAL NANOSENSORS BASED ON PALLADIUM(II) AND PLATINUM(II) PORPHYRINATES FOR THE DETERMINATION OF DISSOLVED OXYGEN IN LIVING SYSTEMS
17:00–17:15	OL	Ermakova E.V.	FLUORESCENT MATERIALS BASED ON QUINOXALINE DERIVATIVES
17:15–17:30	OL	Faraonov M.A.	MAGNETIC COUPLING IN HETEROMETALLIC COORDINATION COMPLEXES OF METAL MACROHETEROCYCLES

October 8

SYMPOSIUM MACROHETEROCYCLIC COMPOUNDS – NEW PERSPECTIVE MOLECULAR MATERIALS FOR SCIENCE, TECHNIQUES, TECHNOLOGY, AND MEDICINE (APPLICATIONS)

17:30–17:45	OL	Shtarev D.S.	DEPENDENCE OF LUMINESCENCE OF HYBRID CRYSTALS OF THE TYPE $[\text{NH}_3-(\text{CH}_2)_n-\text{CH}_3]\text{PbX}_4$ ON THE STRUCTURE OF THE ORGANIC CATION AND THE TYPE OF ANION
17:45–18:00	OL	Nguyen M.T.	FLUOROUS PORPHYRINOIDS FOR ENHANCED PHOTODYNAMIC THERAPY

October 9

SYMPOSIUM MACROHETEROCYCLIC COMPOUNDS – NEW PERSPECTIVE MOLECULAR MATERIALS FOR SCIENCE, TECHNIQUES, TECHNOLOGY, AND MEDICINE (APPLICATIONS)

Hall Chugaev

Chair: Kalinina M.A.

14:00–14:30	KL	Stuzhin P.A.	NOVEL PERSPECTIVE MACROHETEROCYCLES - PHTHALOCYANINE ANALOGUES WITH FUSED HETEROCYCLES
14:30–14:50	IL	Gushchin A.L.	GOLD COMPLEXES BASED ON N-HETEROCYCLIC LIGANDS: SYNTHESSES, NON-COVALENT INTERACTIONS AND APPLICATIONS
14:50–15:10	IL	Ovsyannikov A.S.	APPROACHES FOR RATIONAL DESIGN OF THE CRYSTALLINE MATERIALS USING COORDINATION COMPOUNDS OF (THIA)CALIX4ARENES
15:10–15:30	OL	Tskhovrebov A.G.	EXPLORING REACTIONS OF AMBIPHILIC SELENYL REAGENTS WITH UNSATURATED SUBSTRATES: SYNTHESIS, STRUCTURES, AND IMPLICATIONS TO SUPRAMOLECULAR CHEMISTRY
15:30–15:50	OL	Parfenyuk V.I.	CONDUCTING POLYMERS BASED ON PORPHYRINS WITH DIFFERENT MOLECULE STRUCTURES
15:50–16:15			Coffee-break

Hall Chugaev

Chair: Martynov A.G.

16:15–16:30	OL	Nazarova A.A.	SELF-ASSEMBLY OF PILLAR5ARENES CONTAINING AMINO ACIDS RESIDUES WITH NUMBER OF HERBICIDES
16:30–16:45	OL	Padnya P.L.	THERAPEUTIC NUCLEIC ACID DELIVERY SYSTEMS BASED ON DENDRONIZED THIALCALIXARENES
16:45–17:00	OL	Krasnovskaya O.O.	PHOTOACTIVATED Pt(IV) PRODRUGS: ONE-POT CHEMOTHERAPY, PHOTOTHERMAL AND PHOTODYNAMIC THERAPY
17:00–17:15	OL	Lobova N.A.	PHOTOCYCLOADDITION OF STYRYL DYES IN SOLUTION, SOLID AND GELS. PRE-ORGANIZATION WITH CAVITANDS
17:15–17:30	OL	Usacheva T.R.	THERMODYNAMICS OF COMPLEXFORMATION OF Ni(II) AND Ag(I) WITH HETERO-CROWN ETHERS IN AQUEOUS-ORGANIC SOLVENTS

October 9

SYMPOSIUM MACROHETEROCYCLIC COMPOUNDS – NEW PERSPECTIVE MOLECULAR MATERIALS FOR SCIENCE, TECHNIQUES, TECHNOLOGY, AND MEDICINE (APPLICATIONS)

17:30–17:45	OL	Shiabiev I.E.	POLY(AMIDOAMINE) DENDRIMERS ON THE THIALCALIX4ARENE PLATFORM: SYNTHESIS AND INTERACTION WITH BIOSUBSTRATES
17:45–18:00	OL	Nazarov D.I.	COORDINATION OF DYSPROSIUM TO HEMIHEXAPHYRAZINE
18:30–20:00			Poster session

Chairs – Full Member of RAS S.N. Kalmykov,
Full Member of RAS B.F. Myasoedov



SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

Time specified in the program,
includes report and answers to questions

October 8

SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

Hall Kurchatov

Chair: Kalmykov S.N., Vinokurov S.E.

14:00–14:20	IL	Shadrin A.Yu. ²	TWO-COMPONENT NUCLEAR POWER: CHALLENGES OF RADIOCHEMICAL TECHNOLOGY DEVELOPMENT
14:20–14:50	KL	Hou X. ¹	PROGRESS OF RADIOCHEMICAL SEPARATION AND ANALYSIS IN CHINA
14:50–15:10	IL	Shiryaev A.A. ¹	U-RICH ZIRCON IN CHERNOBYL LAVA - FORMATION AND PROPERTIES
15:10–15:30	IL	Lamego F. ¹	RADIONUCLIDE BEHAVIOR AND HYDROGEOCHEMISTRY IN TWO DIFFERENT URANIUM MINES IN BRAZIL
15:30–15:50	IL	Wu W. ¹	COLLOIDS POSE AN ENHANCED TRANSPORT RISK OF ACTINIDE IN SATURATED POROUS MEDIA
15:50–16:15			Coffee-break

Hall Kurchatov

Chair: Hou X., Kuzmenkova N.V.

16:15–16:30	OL	Ozmen S.F. ¹	228-RADIUM MASS BALANCE APPROACH TO INVESTIGATE SUBMARINE GROUNDWATER DISCHARGE INTO THE CILICIAN BASIN, NORTHEASTERN MEDITERRANEAN SEA
16:30–16:45	OL	Burakov B.E. ²	CHEMICAL ALTERATION OF HIGHLY RADIOACTIVE URANIUM-BEARING MATERIALS FORMED AS A RESULT OF SEVERE NUCLEAR ACCIDENTS AT CHERNOBYL AND FUKUSHIMA-1 NPP'S
16:45–17:00	OL	Shi K. ¹	ULTRAFAST AND SELECTIVE CAPTURE OF ⁹⁹ TcO ₄ ⁻ /ReO ₄ ⁻ FROM WASTEWATER BY HYPERBRANCHED QUATERNARY AMMONIUM GROUP-FUNCTIONALIZED RESIN
17:00–17:15	OL	Smirnova A.A. ²	MODELING OF RADIOLYTIC STABILITY OF COMPLEXING AGENTS FOR SPENT NUCLEAR FUEL REPROCESSING AND RADIOPHARMACEUTICALS
17:15–17:30	OL	Nesterov S.V. ²	RADIATION-CHEMICAL INSIGHT INTO FUNCTIONAL STABILITY OF STRONTIUM-SELECTIVE MACROCYCLIC EXTRACTANTS

1 - Behavior of radionuclides in the environment

2 - Radiochemical technologies and fundamental radiochemistry

October 8

SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

17:30–17:45	OL	Plakhova T.V. ²	PLUTONIUM AND NEPTUNIUM INORGANIC COMPOUNDS – WE STILL HAVE A LOT TO EXPLORE
17:45–18:00	OL	Zotina T. A. ¹	LONG-TERM TRENDS OF ARTIFICIAL RADIONUCLIDES IN BIOTA OF THE YENISEI RIVER (SIBERIA, RUSSIA)
18:00–18:15	OL	Vlasova I.E. ¹	ENVIRONMENTAL BEHAVIOR OF URANIUM ACCUMULATED AT NUCLEAR LEGACY SITES
18:15–18:30	OL	Marinin D.V. ²	NEW APPROACHES TO THE CONDITIONING OF SPENT ION-EXCHANGE RESINS (SIER)
18:30–20:00			Poster session

1 - Behavior of radionuclides in the environment

2 - Radiochemical technologies and fundamental radiochemistry

October 9

SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

Hall Kurchatov

Chair: Petrov V.G., Romanchuk A.Yu.

14:00–14:30	KL	Meyer W. ²	IAEA'S PERSPECTIVE ON THE CHEMICAL CHALLENGES OF RADIOACTIVE WASTE ARISING FROM SMALL MODULAR REACTORS
14:30–14:50	IL	Gurzhiy V.V. ¹	CRYSTAL CHEMISTRY STUDIES OF SECONDARY MINERALS AND TECHNOGENIC MINERAL PHASES OF URANIUM TO ENSURE THE NUCLEAR FUEL CYCLE ENVIRONMENTAL SAFETY
14:50–15:10	IL	Pan D. ¹	COLLOIDS MEDIATED TRANSPORT OF URANIUM POSE CHALLENGE FOR THE IMMOBLIZATION REMEDIATION OF URANIUM CONTAMINATED SITES
15:10–15:30	IL	Aksenov N.V. ²	FIRST NUCLEAR CHEMISTRY EXPERIMENTS AT THE SUPERHEAVY ELEMENT FACTORY
15:30–15:50	IL	Karimi-Sabet J. ²	ON THE POTENCY OF MULTISCALE SIMULATION METHODS IN ANALYZING THE PERFORMANCE OF NUCLEAR FUEL UNDER IRRADIATION: A REVIEW
15:50–16:15			Coffee-break

Hall Kurchatov

Chair: Vlasova I.E., Semenkova A.S.

16:15–16:30	OL	Vidanov V.L. ²	STATUS MA SEPARATION PROCESSES AT «PRORYV» PROJECT
16:30–16:45	OL	Santos-Oliveira R. ²	APPLICATION OF GRAPHENE QUANTUM DOTS IN THE DECONTAMINATION OF RADIONUCLIDE-POLLUTED SURFACES
16:45–17:00	OL	Mikheykin S.V. ²	R&D TO SUPPORT DECOMMISSIONING ACTIVITIES
17:00–17:15	OL	Berihie G.K. ²	EVALUATION OF THE STATUS OF THE ETHIOPIAN NUCLEAR INFRASTRUCTURE DEVELOPMENT
17:15–17:30	OL	Koscheeva A.M. ²	THERMAL STABILITY OF SOLID-PHASE EXTRACTANTS BASED ON TRIBUTYL PHOSPHATE, N,N,N,N-TETRAOCTYLDIAMIDE OF DIGLYCOLIC ACID, DIBENZO-21-CROWN-7 IN NITRIC ACID SOLUTIONS, IN RELATION TO SNF REPROCESSING

1 - Behavior of radionuclides in the environment

2 - Radiochemical technologies and fundamental radiochemistry

October 9

SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

17:30–17:45	OL	Guo Z.J. ²	BENZYL SUBSTITUTED 1,3-ALTERNATE CALIX[4] ARENE-CROWN-6 ETHERS FOR CESIUM SEPARATION FROM HIGH-LEVEL LIQUID WASTE
17:45–18:00	OL	Babain V.A. ²	DILUENTS IN RADIOCHEMISTRY. HISTORY AND CURRENT STATUS
18:00–18:15	OL	Kniznik L. ²	DEVELOPMENT OF A COMPREHENSIVE DECOMMISSIONING PLAN FOR NUCLEAR FACILITIES
18:15–18:30	OL	Rozenkevich M.B. ²	STATUS AND PROSPECTS FOR THE USE OF TECHNOLOGIES FOR HANDLING TRITIATED GAS AND WATER STREAMS
18:30–20:00			Poster session

1 - Behavior of radionuclides in the environment

2 - Radiochemical technologies and fundamental radiochemistry

October 10

SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

Hall Kurchatov

Chair: Egorova B.V., Ermolaev S.V.

14:00–14:30	KL	Sadikov I.I. ³	OUTPUTTING OF GENERAL AND MEDICAL RADIOISOTOPE PRODUCTS IN UZBEKISTAN
14:30–14:50	IL	Zhuikov B.L. ³	DEVELOPMENT OF NEW METHODS FOR PRODUCING RADIOACTIVE ISOTOPES AS RESULT OF FUNDAMENTAL CHEMICAL RESEARCH
14:50–15:10	IL	Zeevaart J.R. ³	MITIGATION OF THE INHERENT RISK POSED BY THE RELEASE OF A DAUGHTER RADIOISOTOPE IN THE CASE OF AUGER EMITTING RADIONUCLIDES
15:10–15:30	IL	Tishchenko V. K. ³	THE DEVELOPMENT OF DIAGNOSTIC AND THERAPEUTIC ANTITUMOR RADIOPHARMACEUTICALS
15:30–15:50	IL	Fedorova O.A. ³	AZACROWN COMPOUNDS AND THEIR CONJUGATES WITH NANOPARTICLES, ANTIBODIES AND PEPTIDES AS A PLATFORM FOR RADIOPHARMACEUTICALS
15:50–16:15			Coffee-break

Hall Kurchatov

Chair: Lapshina E.V., Tishchenko V. K.

16:15–16:30	OL	Tyupina M.Y. ³	NEW ^{99m} Tc RADIOPHARMACEUTICALS FOR MYOCARDIAL METABOLIC PROCESSES
16:30–16:45	OL	Larenkov A.A. ³	IMPROVEMENT OF METHODOLOGICAL APPROACHES TO ANALYZING RADIOCHEMICAL PURITY OF RADIOPHARMACEUTICALS
16:45–17:00	OL	Rashed H.M. ³	INTRANASAL NANOEMULSION OF PREGABALIN: FORMULATION & RADIOKINETIC EVALUATION WITH ^{99m} Tc
17:00–17:15	OL	Egorova B.V. ³	BENZO- AND PYRIDINE- AZACROWN ETHERS AS PERSPECTIVE TOOL FOR TARGETED RADIOPHARMACEUTICALS
17:15–17:30	OL	Almayahi B.A. ³	NANOCOMPOSITE-BASED STRATEGIES FOR ENHANCING RADIATION THERAPY IN HUMAN COLORECTAL CANCER CELLS

2 - Radiochemical technologies and fundamental radiochemistry

3 - Radiopharmaceutical chemistry

October 10

SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

17:30–17:45	OL	Ermolaev S.V. ³	RECOVERY OF ^{225}Ac FROM PROTON-IRRADIATED THORIUM AND DEVELOPMENT OF $^{225}\text{Ac}/^{213}\text{Bi}$ GENERATOR
17:45–18:00	OL	Skornyakov Yu.V. ³	EXPERIENCE OF AUTOMATIC CHEMICAL SYNTHESIS. DEVELOPMENT AND PRODUCTION OF COMPONENTS AND KITS FOR RADIOPHARMACEUTICAL DIAGNOSTICS AND THERAPY
18:00–18:15	OL	Korraa S. ³	ABSCOPAL AND BYSTANDER EFFECTS OF RADIOPHARMACEUTICALS
18:15–18:30	OL	Kokov K.V. ³	INNOVATIVE ^{177}Lu -BASED RADIOPHARMACEUTICALS FOR NUCLEAR MEDICINE
18:30–20:00			Poster session

Chairs – Full Member of RAS A.Yu. Tsivadze, Corresponding Member of RAS I.G. Tananaev, Corresponding Member of RAS A.K. Buryak



**RUSSIAN-CHINESE SYMPOSIUM
ON SELECTIVE TECHNOLOGIES
FOR SEPARATION OF SUBSTANCES
WITH SIMILAR PROPERTIES**

Time specified in the program,
includes report and answers to questions

October 9

RUSSIAN-CHINESE SYMPOSIUM ON SELECTIVE TECHNOLOGIES FOR SEPARATION OF SUBSTANCES WITH SIMILAR PROPERTIES

Hall Borodin

Chair: Buryak A.K.

14:00–14:25	KL	Li Baoqiang	CARBON DOTS: TARGET-ORIENTED SYNTHESIS AND TAILOR-MADE FUNCTIONS
14:25–14:50	KL	Tao He	MEMBRANE CHEMICAL EXCHANGE FOR SEPARATION OF LITHIUM AND LITHIUM ISOTOPE
14:50–15:10	IL	Stepanov S.I.	THEORY AND PRACTICE OF SELECTIVE SEPARATION OF REE BY SYNERGETIC MIXTURES OF EXTRAGENTS
15:10–15:30	IL	Solovev V.P.	DESIGN OF SELECTIVE LIGANDS
15:30–15:50	IL	Safiulina A.M.	PHOSPHORYL KETONES: COMPLEXING AND EXTRACTION PROPERTIES, PRACTICAL APPLICATION
15:50–16:15			Coffee-break

Hall Borodin

Chair: Tananaev I.G., Volkov A.V.

16:15–16:30	OL	Zakurdaeva O.A.	PROSPECTS FOR THE SELECTIVE EXTRACTION OF LITHIUM FROM NATURAL HYDROMINERAL SOURCES BY MACROCYCLIC EXTRACTANTS
16:30–16:45	OL	Boyarintsev A.V.	SELECTIVE SYSTEMS FOR EXTRACTION AND SEPARATION OF ACTINIDES FROM CARBONATE MEDIA
16:45–17:00	OL	Garkushina I.S.	MOLECULAR IMPRINTED POLYMER SORBENTS FOR PREPARATIVE EXTRACTION OF LOW-MOLECULAR-WEIGHT BIOLOGICALLY ACTIVE SUBSTANCES
17:00–17:15	OL	Tsebrikova G.S.	ESTIMATION OF THE SELECTIVITY OF ORGANOPHOSPHORUS COMPOUNDS TOWARDS S-, D- AND F-ELEMENTS
17:15–17:30	OL	Pidenko P.S.	BIOINORGANIC SORBENTS BASED ON IMPRINTED PROTEINS
17:30–17:45	OL	Bezdomnikov A.A.	SELECTIVE LITHIUM EXTRACTION BY NEW BINARY EXTRACTANTS BASED ON ORTHO-SUBSTITUTED PHENOLS

October 9

RUSSIAN-CHINESE SYMPOSIUM ON SELECTIVE TECHNOLOGIES FOR SEPARATION OF SUBSTANCES WITH SIMILAR PROPERTIES

17:45–18:00	OL	Afonin M.A.	EXTRACTION OF HEAVY RARE EARTH ELEMENTS AND YTTRIUM FROM CHLORIDE SOLUTIONS USING MIXTURES OF P507 AND CYANEX 272
18:00–18:15	OL	Sharov V.E.	INFLUENCE OF THE PARAMETERS OF THE EXTRACTION SYSTEM ON THE SELECTIVITY OF EXTRACTION $L_n(III)$, $A_m(III)$ AND $C_m(III)$ BY N,N,N',N'-TETRABUTYLDIGLYCOLAMIDE
18:15–18:30	OL	Slobodskaya S.S.	COMPLEXATION AND EXTRACTION PROPERTIES OF 1,3-BIS(DIPHENYLPHOSPHORYL)-2-OXAPROPANE TOWARDS RARE EARTH ELEMENTS
18:30–20:00			Poster session



DEVELOPMENT OF THE MINERAL RESOURCES FOR RUSSIA'S TECHNOLOGICAL SOVEREIGNTY

Time specified in the program,
includes report and answers to questions

October 8

DEVELOPMENT OF THE MINERAL RESOURCES FOR RUSSIA'S NTECHNOLOGICAL SOVEREIGNTY

Hall Voskresensky

Chair: Aldoshin S.M.

14:00–14:30	KL	Bortnikov N.S.	DEVELOPMENT OF MODELS OF MINERAL FORMING SYSTEMS: THE WAY TO DEVELOP MINERAL RESOURCE BASE
14:30–14:50	IL	Zakharov V.N.	MINING TECHNICAL SYSTEMS OF THE FULL CYCLE DEVELOPMENT DEPOSITS SOLID MINERALS
14:50–15:10	IL	Aleksandrova T.N.	INNOVATIVE PROCESSES OF STRATEGIC MINERAL RAW MATERIALS COMPLEX ORES BENEFICIATION AND DEEP PROCESSING
15:10–15:30	IL	Khanchuk A.I.	DEVELOPMENT OF METHODS FOR STRATEGIC METALS EXTRACTION FROM ORES AND PLACERS OF MAFIC-ULTRAMAFIC INTRUSIONS (PRIMORYE TERRITORY, RUSSIA)
15:30–15:50	IL	Petrov V.A.	MINERAL-RESOURCE BASE OF URANIUM
15:50–16:15			Coffee-break

Hall Voskresensky

Chair: Bortnikov N.S.

16:15–16:30	OL	Pekov I.V.	MINERALOGICAL CRYSTAL CHEMISTRY OF RARE EARTH ELEMENTS: CONNECTION WITH THE PROBLEM OF ASSESSMENT OF THEIR DEPOSITS
16:30–16:45	OL	Tkachev A.V.	LITHIUM DEPOSIT TYPES, THEIR DISTRIBUTION IN GEOLOGICAL TIME AND SPACE, ROLE IN THE MODERN RAW MATERIAL BASE
16:45–17:00	OL	Vikentev I.V.	STRATEGIC METALS IN THE ORES OF THE URAL DEPOSITS
17:00–17:15	OL	Likhnikovich E.G.	VIMS EXPERIENCE IN THE DEVELOPMENT OF INNOVATIVE TECHNOLOGIES FOR PROCESSING COMPLEX ORES OF STRATEGIC METALS

October 8

DEVELOPMENT OF THE MINERAL RESOURCES FOR RUSSIA'S NTECHNOLOGICAL SOVEREIGNTY

17:15–17:30	OL	Cherkasov S.V.	NEW PARADIGM FOR ORE DEPOSIT FORECAST
17:30–17:45	OL	Rozhdestvina V.I.	ONTOGENESIS OF NATIVE GOLD IN BROWN COALS
17:45–18:30	OL		Discussion

October 9

DEVELOPMENT OF THE MINERAL RESOURCES FOR RUSSIA'S TECHNOLOGICAL SOVEREIGNTY

Hall Voskresensky

Chair: Tananaev I.G.

14:00–14:30	KL	Tananaev I.G.	TECHNOLOGIES FOR DEVELOPMENT OF MINERAL RAW MATERIALS OF THE KOLA PENINSULA: HISTORY AND PROSPECTS FOR ADAPTATION AND IMPLEMENTATION
14:30–14:50	IL	Khamizov R.Kh.	RESOURCE-SAVING METHOD FOR EXTRACTION OF LITHIUM FROM ORE MATERIALS AND LIQUID ENVIRONMENTS
14:50–15:10	IL	Nemudryi A.P.	TECHNOLOGIES FOR RECOVERING OF LITHIUM FROM DOMESTIC MINERAL AND HYDROMINERAL LITHIUM RAW MATERIALS
15:10–15:30	IL	Kuzmin D.V.	HYDROTHERMAL ACID LEACHING OF RARE METAL ORES OF THE CHUKTUKON DEPOSIT
15:30–15:50	IL	Nikolaev A.I.	PROBLEMS AND PROSPECTS OF COMPLEX RARE METAL RAW MATERIALS OF MURMANSK REGION FOR THE PRODUCTION OF FUNCTIONAL MATERIALS
15:50–16:15			Coffee-break

Hall Voskresensky

Chair: Bortnikov N.S.

16:15–16:30	OL	Voshkin A.A.	SUSTAINABLE LIQUID EXTRACTION PROCESSES FOR RECYCLING OF MINERAL RAW MATERIALS AND WASTES
16:30–16:45	OL	Mitrofanova G.V.	NOVEL REAGENTS OF NATIONAL ORIGIN FOR APATITE-CONTAINING ORES FLOTATIONAL ENRICHMENT
16:45–17:00	OL	Kasikov A.G.	PRODUCTION OF NICKEL, COBALT AND LITHIUM SALTS FROM RAW MATERIALS OF THE ARCTIC REGION FOR THE SYNTHESIS OF BATTERY MATERIALS
17:00–17:15	OL	Stepanov E.A.	UNIFICATION OF DOMESTIC CHEMICAL REAGENTS FOR EXTRACTION OF MINERAL RESOURCES
17:15–17:30	OL	Lomovskii I.O.	MECHANOCHEMICAL CONCENTRATING AND INCREASING THE SOLUBILITY OF RARE EARTH ELEMENTS FROM COALS AND ASH AND SLAG WASTES

October 9

DEVELOPMENT OF THE MINERAL RESOURCES FOR RUSSIA'S TECHNOLOGICAL SOVEREIGNTY

17:30–17:45	OL	Yukhin Yu.M.	BISMUTH: RAW MATERIAL BASE AND CONCENTRATE PROCESSING TO OBTAIN HIGH PURITY BISMUTH AND ITS COMPOUNDS
17:45–18:00	OL	Rasskazov I.Yu.	PROSPECTS FOR THE USE OF BLASTING INJECTION OXIDATION AND ORE LEACHING IN THE DEVELOPMENT OF DEPOSITS OF STRATEGICALLY IMPORTANT MINERAL RAW MATERIALS
18:00–18:15	OL	Palyanova G.A.	CHEMISTRY OF NATIVE GOLD AND THERMODYNAMIC STUDIES OF GOLD-BEARING SYSTEMS
18:15–18:30	OL	Goryachev A.A.	DEVELOPMENT OF TECHNOLOGY FOR PROCESSING COPPER-NICKEL ORES ENRICHMENT STELLAR TAILINGS, ADAPTED TO THE CLIMATIC CONDITIONS OF THE RUSSIAN FEDERATION ARCTIC ZONE

October 10

DEVELOPMENT OF THE MINERAL RESOURCES FOR RUSSIA'S TECHNOLOGICAL SOVEREIGNTY

Hall Voskresensky

Chair: Pimenov N.V.

14:00–14:30	KL	Pimenov N.V.	PROSPECTS FOR THE APPLICATION OF BIOHYDROMETALLURGY FOR THE EXTRACTION OF STRATEGIC METALS
14:30–14:50	IL	Bulaev A.G.	MICROBIAL ECOLOGY OF SULFIDE CONCENTRATE BIOOXIDATION REACTORS AND THE POSSIBILITY OF OPTIMIZING BIOHYDROMETALLURGICAL TECHNOLOGIES
14:50–15:10	IL	Safonov A.V.	МИКРОБНЫЕ БИОГЕОТЕХНОЛОГИИ ОЧИСТКИ ПОДЗЕМНЫХ ВОД, ЗАГРЯЗНЕННЫХ РАДИОНУКЛИДАМИ
15:10–15:30	IL	Adrianov A.V.	UNIQUE MARINE ECOSYSTEMS IN THE ORE-BEARING SEABED AREAS
15:30–15:50	IL	Fomchenko N.V.	HYDROMETALLURGICAL PROCESSING OF LOW-GRADE CONCENTRATES OF NONFERROUS METALS
15:50–16:15			Coffee-break

Hall Voskresensky

Chair: Fomchenko N.V.

16:15–16:30	OL	Belyi A.V.	MICROBIOLOGICAL TREATMENT OF CYANIDE AND RHODANIDE-CONTAINING EFFLUENTS OF MINING INDUSTRY
16:30–16:45	OL	Latyuk E.S.	PROSPECTS FOR APPLYING THE BIOLEACHING METHOD FOR PROCESSING SULPHIDE RAW MATERIALS IN ARCTIC
16:45–17:00	OL	Boduen A.Ya.	SPECIFIC ASPECTS OF GOLD EXTRACTION FROM PYRRHOTITE-CONTAINING MATERIALS
17:00–17:15	OL	Abashina T.N.	APPROACHES TO STIMULATE BIOLEACHING OF METALS

October 10

DEVELOPMENT OF THE MINERAL RESOURCES FOR RUSSIA'S NTECHNOLOGICAL SOVEREIGNTY

17:15–17:30	OL	Gavrilov V.L.	FEATURES OF MINERAL RESOURCE ASSESSMENT FOR HIGH TECHNOLOGY IN NORTH-EAST RUSSIA
17:30–18:30	OL		Discussion
18:30–20:00			Poster session

Chairs – Full Member of RAS V.N. Charushin
and Full Member of RAS S.O. Bachurin



SYMPOSIUM ON MEDICINAL CHEMISTRY

Time specified in the program,
includes report and answers to questions

October 8

SYMPOSIUM ON MEDICINAL CHEMISTRY

Hall Zaitsev

*Reports in the field of Classical Medicinal Chemistry
and in the Organic Chemistry to solve specific problems
of Medicinal Chemistry*

Chair: Bachurin S.O., Poroikov V.V.

14:00–14:30	KL	Fedorov A.Yu.	СЕЛЕКТИВНЫЕ ИНГИБИТОРЫ ВЕТ-ПРОТЕИНОВ В ЭПИГЕНЕТИЧЕСКОЙ ТЕРАПИИ РАКА
14:30–14:50	IL	Salakhutdinov N.F.	INHIBITORS OF VIRUSES CAUSING PARTICULARLY DANGEROUS INFECTIONS
14:50–15:10	IL	Milaeva E.R.	METAL-BASED DRUG CANDIDATES WITH MULTIMODAL MODE OF ACTION
15:10–15:30	IL	Navrotskii M.B.	(HETARYLMETHYL)BENZOIC ACIDS: FROM EXPERIMENTAL INHIBITORS OF BACTERIAL CYSTATHIONINE-□-LYASE TO A NEW CLASS OF ANTI-BIOTIC ADJUVANTS
15:30–15:50	IL	Balakin K.V.	INNOVATIVE SMALL MOLECULE DRUGS INTRODUCED ON THE RUSSIAN MARKET
15:50–16:15			Coffee-break

Hall Zaitsev

Chair: Salakhutdinov N.F., Fedorov A.Yu.

16:15–16:30	OL	Vereshchagin A.N.	HOW TO PREPARE A NEW POWERFUL ANTISEPTIC
16:30–16:45	OL	Rubtsova S.A.	SYNTHESIS AND ANTIMICROBIAL PROPERTIES OF S-, O-, N-, F-CONTAINING MONOTERPENOIDS
16:45–17:00	OL	Pavlovskii V.I.	DEVELOPMENT AND IMPLEMENTATION OF INNOVATIVE ANALGESICS BASED ON 1,4-BENZODIAZEPIN-2-ONES
17:00–17:15	OL	Averina E.B.	ANTITUBULIN AGENTS OF DIFFERENT STRUCTURAL TYPES: SYNTHESIS AND STUDY OF ANTITUMOUR ACTIVITY
17:15–17:30	OL	Burmistrov V.V.	APPROACHES TO INCREASING THE WATER SOLUBILITY OF SOLUBLE EPOXIDE HYDROLASE INHIBITORS
17:30–17:45	OL	Ostrovskii V.A.	NOVEL BIOLOGICALLY ACTIVE NITROGEN-, SULFUR-, AND OXYGEN-CONTAINING HETEROCYCLIC COMPOUNDS WITH MULTITARGET ACTIVITY

October 8

SYMPOSIUM ON MEDICINAL CHEMISTRY

17:45–18:00	OL	Popkov S.V.	SYNTHESIS, ANTIFUNGAL AND ANTIMYCOBACTERIAL ACTIVITY OF AZOLYL METHYL-CYCLOHEXANOLS AND 3-AZABICYCLO[3.3.1]NONANE-9-OLS
18:00–18:10	OL	Gibadullina E.M.	DIARYLMETHYLPHOSPHONATES CONTAINING STERICALLY HINDERED PHENOL: SYNTHESIS, SWITCH FROM ANTIOXIDANT ACTIVITY TO ROS GENERATION AND INDUCTION OF APOPTOSIS
18:10–18:20	OL	Machulkin A.E.	DEVELOPMENT AND STUDY OF THERAPEUTIC AND DIAGNOSTIC CONJUGATES BASED ON PSMA LIGANDS
18:20–18:30	OL	Shchegolkov E.V.	DESIGN OF BIOACTIVE COMPOUNDS BASED ON 5-POLYFLUOROALKYL-SUBSTITUTED ANTIPYRINES
18:30–20:00			Poster session

October 9

SYMPOSIUM ON MEDICINAL CHEMISTRY

Hall Zaitsev

Reports on the application of methods and approaches of mathematical, physical and inorganic chemistry to solve specific problems in medicinal and biologically active substances design

Chair: Milaeva E.R., Navrotskii M.B.

14:00–14:25	KL	Poroikov V.V.	WAY2DRUG PLATFORM: FROM BIOLOGICAL ACTIVITY PREDICTION TO SYSTEMS PHARMACOLOGY
14:25– 14:50		Sagdullaev Sh.Sh.	CHEMISTRY, PHARMACOLOGY, AND TECHNOLOGY OF LAPPACONITINE AND ITS DERIVATIVES
14:50–15:05	IL	Palyulin V.A.	DESIGN OF NEUROPROTECTIVE COMPOUNDS: AMPA RECEPTOR MODULATORS
15:05–15:20	IL	Vasilev P.M.	ARTIFICIAL NEURAL NETWORKS OF DIFFERENT ARCHITECTURE IN THE SEARCH OF PHARMACOLOGICALLY ACTIVE COMPOUNDS
15:20–15:35	IL	Batishchev O.V.	PHYSICOCHEMICAL METHODS FOR SEARCHING AND ESTABLISHING MECHANISMS OF ACTION OF ANTIVIRAL DRUGS
15:35–15:50	IL	Sanina N.A.	DESIGN OF INNOVATIVE TARGET ORIENTED AGENTS – GENERATORS OF ENDOGENOUS TRANSMITTER MOLECULES FOR THE TREATMENT OF SOCIALLY SIGNIFICANT DISEASES
15:50–16:15			Coffee-break

Hall Zaitsev

Chair: Balakin K.V., Palyulin V.A.

16:15–16:30	OL	Lutsenko I.A.	CREATION OF FUNCTIONAL BLOCKS OF COORDINATION COMPOUNDS WITH VARIOUS TYPES OF BIOLOGICAL ACTIVITY: SYNTHETIC APPROACHES, MEDICAL-BIOLOGICAL TESTS, PROSPECTS FOR IMPLEMENTATION
16:30–16:45	OL	Nazarov A.A.	ANTITUMOR PLATINUM AND RUTHENIUM COMPOUNDS WITH TARGETING ACTION
16:45–17:00	OL	Kandalintseva N.V.	SULFUR-, SELENIUM-CONTAINING HYDROPHILIC ANTIOXIDANTS: SYNTHESIS AND INFLUENCE ON OXIDATIVE PROCESSES IN LIVING SYSTEMS

October 9

SYMPOSIUM ON MEDICINAL CHEMISTRY

17:00–17:15	OL	Svitanko I.V.	ADD-ONS TO MOLECULAR MODELING METHODS: IMPROVEMENT IN ACTIVITY PREDICTION
17:15–17:30	OL	Shulga D.A.	ROLES OF COMPUTER MODELING IN CHEMISTRY TO SUPPORT INNOVATION DEVELOPMENT
17:30–17:45	OL	Osolodkin D.I.	KNOWLEDGE-DRIVEN SEARCH FOR SMALL MOLECULE ANTIVIRALS
17:45–18:00	OL	Radchenko E.V.	PREDICTION OF ADMET PROPERTIES OF DRUGS USING ARTIFICIAL NEURAL NETWORKS: RELIABLE MODELS AND NOVEL APPROACHES
18:00–18:10	OL	Novikova D.S.	DEVELOPMENT OF HETEROBIFUNCTIONAL PROTAC-TYPE MOLECULES TO OVERCOME DRUG RESISTANCE OF CANCER CELLS
18:10–18:30	OL	Reports of the winners of the International Young Scientists Workshop on Medicinal Chemistry	
18:30–20:00		Poster session	

Chairs – Full Member of RAS Yu.A. Zolotov,
Corresponding Member of RAS V.K. Ivanov

SYMPOSIUM ON THE HISTORY OF CHEMISTRY

Time specified in the program,
includes report and answers to questions

20

October 8

SYMPOSIUM ON THE HISTORY OF CHEMISTRY

Hall Borodin

Chair: Zolotov Yu.A.

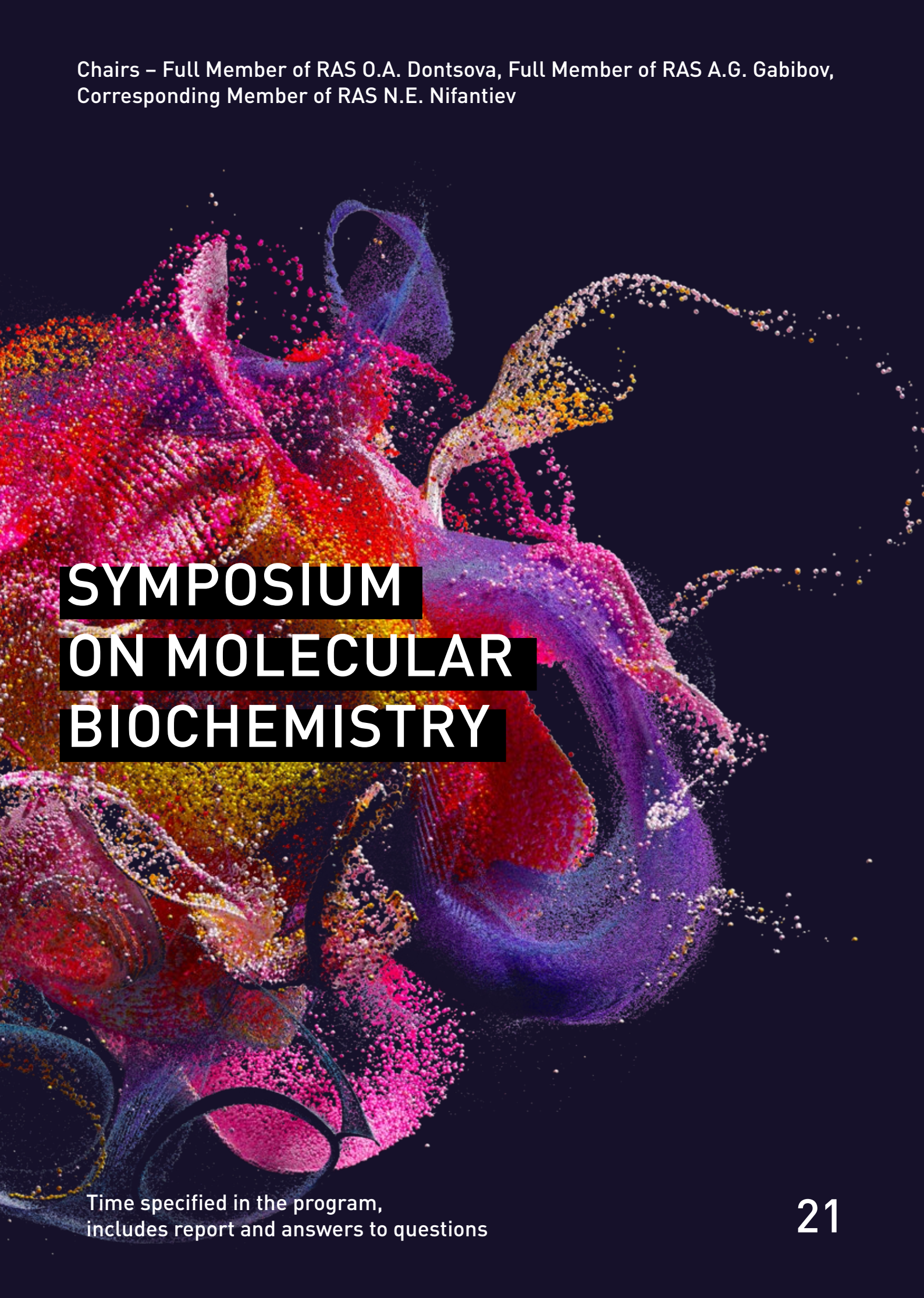
14:00–14:30	KL	Ivanov V.K.	THE LEDENTSOV SOCIETY: THE FIRST RUSSIAN SCIENCE SUPPORT FOUNDATION
14:30–14:50	IL	Kurashov V.I.	CHEMISTRY AND CHEMICAL TECHNOLOGICAL IN HISTORY OF THE KAZAN NATIONAL RESEARCH TECHNOLOGY UNIVERSITY
14:50–15:10	IL	Flid V.R.	METAL COMPLEX CATALYSIS – THE GREATEST ACHIEVEMENT IN XXth CENTURY CHEMISTRY
15:10–15:30	IL	Kotov V.Yu.	AT THE ORIGINS OF SOVIET POLAROGRAPHY
15:30–15:50	IL	Shuklov I.A.	CHEMICAL DISCOVERIES AND CHEMISTS ON COINS
15:50–16:15			Coffee-break

Hall Borodin

Chair: Ivanov V.K.

16:15–16:30	OL	Paevskii A.S.	VIRTUAL MUSEUM OF CHEMISTRY. FIRST RESULTS AND PERSPECTIVES
16:30–16:45	OL	Shavshukova S.Yu.	PROFESSOR D.L. RAKHMANKULOV SCIENTIFIC SCHOOLS
16:45–17:00	OL	Mikhailova N.N.	PETROCHEMICAL SCIENTIFIC SCHOOLS USPTU
17:00–17:15	OL	Asnin L.D.	EVOLUTION OF THE NOMENCLATURE OF OPTICAL ACTIVE SUBSTANCES: AMINO ACIDS AS A CASE STUDY
17:15–17:30	OL	Krivorotov D.V.	THE DEVELOPMENT OF OPIOID CHEMISTRY AND THEIR ANTAGONISTS
17:30–17:45	OL	Grashkina A.V.	PAGES OF HISTORY OF TEACHING PHYSICAL CHEMISTRY: ONE OF THE OLDEST DEPARTMENTS IN RUSSIA
18:30–20:00			Poster session

Chairs – Full Member of RAS O.A. Dontsova, Full Member of RAS A.G. Gabibov,
Corresponding Member of RAS N.E. Nifantiev

An abstract, colorful visualization of a molecular structure, possibly a protein or DNA, rendered in a point cloud or particle-based style. The structure is composed of numerous small, colored spheres (pink, red, orange, yellow, purple, blue) arranged in a complex, folded pattern against a dark background. The overall appearance is that of a dynamic, multi-colored molecular model.

SYMPOSIUM ON MOLECULAR BIOCHEMISTRY

Time specified in the program,
includes report and answers to questions

October 8

SYMPOSIUM ON MOLECULAR BIOCHEMISTRY

Hall Bakh

Chair: Dontsova O.A.

14:00–14:30	KL	Kochetkov S.N.	ANTIBIOTIC RESISTANCE: THREATS AND SEARCH FOR A WAY OUT
14:30–14:50	IL	Lavrik O.I.	PARP1 AND PARP2 IN POLY(ADP-RIBOSYL) ILATION OF HISTONES OR WHY HIGHER EUKARYOTES NEED TWO NUCLEAR POLY(ADP-RIBOSE)POLYMERASES
14:50–15:10	IL	Khrenova M.G.	ROLE OF SMALL OPEN READING FRAMES IN CELL FUNCTIONING
15:10–15:30	IL	Rubtsova M.P.	ROLE OF SMALL OPEN READING FRAMES IN CELL FUNCTIONING
15:30–15:50	IL	Sergiev P.V.	MICE GENOME EDITING AS A TOOL FOR FUNCTIONAL GENOMICS AND PERSONALIZED MEDICINE
15:50–16:15			Coffee-break

Hall Bakh

Chair: Dontsova O.A.

16:15–16:30	OL	Khomutov A.R.	PHOSPHORUS-CONTAINING ANALOGUES OF GLUTAMIC ACID: SYNTHESIS, INTERACTION WITH THE ENZYMES AND BIOLOGICAL ACTIVITY
16:30–16:45	OL	Kaznacheeva E.V.	ДЕПО-УПРАВЛЯЕМЫЙ ВХОД КАЛЬЦИЯ КАК МИШЕНЬ В ТЕРАПИИ НЕЙРОДЕГЕНЕРАТИВНЫХ ЗАБОЛЕВАНИЙ. ПОИСК ХИМИЧЕСКИХ ЭФФЕКТОРОВ -ПОТЕНЦИАЛЬНЫХ ФАРМПРЕПАРАТОВ
16:45–17:00	OL	Yampolskii I.V.	ЛЮМИНЕСЦЕНЦИЯ ЖИВЫХ ОРГАНИЗМОВ: ОТ ФУНДАМЕНТАЛЬНЫХ МЕХАНИЗМОВ ДО СИНТЕТИЧЕСКОЙ БИОЛОГИИ
17:00–17:15	OL	Savitskii A.P.	<i>MOLECULAR IMAGING IN IN VIVO ENZYMOLOGY</i>
17:15–17:30	OL	Gabashvili A.N.	GENETICALLY ENGINEERED PROTEIN NANOCONTAINERS FOR BIOMEDICAL APPLICATIONS
17:30–17:45	OL	Skvortsov D.A.	SCREENING FOR COMPOUNDS SELECTIVELY INHIBITING THE GROWTH OF TUMOR CELLS: ANTI-TUBULIN DIARYLISOXAZOLE DERIVATIVES

October 8

SYMPOSIUM ON MOLECULAR BIOCHEMISTRY

17:45–18:00	OL	Snytnikova O.A.	METABOLOMIC CHANGES IN THE BLOOD AND BRAIN OF OXYS RATS – A MODEL OF ALZHEIMER'S DISEASE
18:00–18:15	OL		
18:15–18:30	OL		

October 9

SYMPOSIUM ON MOLECULAR BIOCHEMISTRY

Hall Bakh

Chair: Nifantev N.E.

14:00–14:30	KL	Krylov V.B.	SYNTHETIC OLIGOSACCHARIDES RELATED TO O-ANTIGENS OF KLEBSIELLA PNEUMONIAE AS A PLATFORM FOR VACCINE DEVELOPMENT
14:30–14:50	IL	Vodovozova E.L.	БЕЛКОВАЯ КОРОНА ЛИПОСОМ И ЕЕ ВЛИЯНИЕ НА ВЗАИМОДЕЙСТВИЯ С КЛЕТКАМИ КРОВЕНОСНОГО РУСЛА
14:50–15:10	IL	Kusaikin M.I.	NOVEL ENZYMES CATALYSING THE CONVERSION OF FUCOIDANS
15:10–15:30	IL	Popov V.O.	WHAT FOR DO YOU NEED THREE COPPER IONS IN THE REACTION OF NUCLEOPHILIC SUBSTITUTION
15:30–15:50	IL	Maslov M.A.	NON-VIRAL DELIVERY SYSTEMS: HOW THE STRUCTURE OF LIPID COMPONENTS AFFECTS THE EFFICIENCY OF NUCLEIC ACIDS TRANSPORT
15:50–16:15			Coffee-break

Hall Bakh

Chair: Nifantev N.E.

16:15–16:30	OL	Makshakova O.N.	MODERN APPROACHES TO STUDYING INTERACTIONS OF VARIABLE CARBOHYDRATE CHAINS OF GLYCOSAMINOGLYCANS WITH PROTEIN RECEPTORS
16:30–16:45	OL	Tokatly A.I.	SYNTHESIS OF HEPARINOID FRAGMENTS FOR BIOLOGICAL AND CONFORMATIONAL STUDIES
16:45–17:00	OL	Serchenya T.S.	<i>RECOMBINASE POLYMERASE AMPLIFICATION IN COMBINATION WITH MEMBRANE IMMUNOCHROMATOGRAPHY FOR RAPID DETECTION OF PATHOGENIC BACTERIA SALMONELLA ENTERICA AND LISTERIA MONOCYTOGENES</i>
17:00–17:15	OL	Shmendel E.V.	NEW CATIONIC LIPOSOMES BASED ON CARBOHYDRATE-CONTAINING AMPHIPHILES FOR DELIVERY OF NUCLEIC ACIDS INTO EUKARYOTIC CELLS
17:15–17:30	OL	Shepelev N.M.	NUMEROUS SMALL OPEN READING FRAMES AFFECT PROLIFERATION OF HUMAN CELLS

October 9

SYMPOSIUM ON MOLECULAR BIOCHEMISTRY

17:30–17:45	OL	ООО «Gennye Tekhnologii Zdorov'ya»	ХРОМАТО-МАСС-СПЕКТРОМЕТРИЯ ЭФФЕКТИВНЫЙ, СЕЛЕКТИВНЫЙ И ДОСТОВЕРНЫЙ МЕТОД ИССЛЕДОВАНИЙ МЕТАБОЛОМИКИ
17:45–18:00	OL		
18:00–18:15	OL		
18:15–18:30	OL		

October 10

SYMPOSIUM ON MOLECULAR BIOCHEMISTRY

Hall Bakh

Chair: Gabibov A.G.

14:00–14:30	KL	Deev S.M.	RADIONUCLIDES AND OTHER INNOVATIVE AGENTS FOR EFFECTIVE ONCOTHERANOSTICS
14:30–14:50	IL	Belogurov A.A.	PROCESSING AND PRESENTATION OF ANTIGENS: FROM FUNDAMENTAL ASPECTS TO SPECIFIC THERAPY
14:50–15:10	IL	Zenkova M.A.	MICRORNA-TARGETED DRUGS: MIRNAS VS ANTISENSE OLIGONUCLEOTIDES
15:10–15:30	IL	Mitkevich V.A.	INHIBITORS OF HYDROGEN SULFIDE SYNTHESIS ENZYMES AS ANTIBIOTIC POTENTITORS
15:30–15:50	IL	Smirnov I.V.	MICR OFLUIDIC TECHNOLOGIES FOR SOLVING PROBLEMS OF APPLIED MOLECULAR BIOLOGY
15:50–16:15			Coffee-break

Hall Bakh

Председатель: Габиров А.Г.

16:15–16:30	OL	Kochetkov S.N.	NEW ANTIMICROBIAL AGENTS BASED ON MODIFIED NUCLEOSIDES
16:30–16:45	OL	Morozova O.V.	PROTEIN AND COMPOSITE NANOPARTICLES FOR INTRACELLULAR DRUG DELIVERY
16:45–17:00	OL	Pometun A.A.	NEW ENZYMES FROM LACTOBACTERIA. PROSPECTS OF USE.
17:00–17:15	OL	Gottikh M.B.	COMPLEXES OF HIV-1 PROTEINS WITH CELLULAR PROTEINS AS NEW TARGETS FOR ANTIRETROVIRAL THERAPY
17:15–17:30	OL	Lukyanov D.A.	DISCOVERING COMPOUNDS THAT POSSESS ANTIBACTERIAL ACTIVITY. ESTABLISHING THE MECHANISM OF ACTION FOR ANTIBACTERIALS THAT HAVE BEEN IDENTIFIED.
17:30–17:45	OL	Chernolovskaya E.L.	THERAPEUTIC STRATEGIES WITH CHEMICALLY MODIFIED SMALL INTERFERING RNAS
17:45–18:00	OL	Kubareva E.A.	SEARCH FOR APPROACHES TO IMPROVE SURFACTIN PRODUCTION EFFICIENCY IN BACILLUS SUBTILIS CELLS
18:00–18:15	OL	Azhikina T.L.	MYCOBACTERIUM TUBERCULOSIS NON-CODING RNAs AS REGULATORS OF HOST-PATHOGEN INTERACTION

October 10

SYMPOSIUM ON MOLECULAR BIOCHEMISTRY

18:15–18:30	OL	Markov A.V.	DEVELOPMENT OF INHIBITORS TARGETING GLIAL-MESENCHYMAL TRANSITION OF GLIOBLASTOMA MULTIFORME CELLS BASED ON SEMISYNTHETIC TERPENES: FIRST STAGE PROGRESS
18:30–20:00	Poster session		



SYMPOSIUM
“GLASS AND CERAMICS”

Time specified in the program,
includes report and answers to questions

October 8

SYMPOSIUM "GLASS AND CERAMICS"

Hall Grebenschikov

Chair: Shevchenko V.Ya.

14:00–14:30	KL	Lepin V.N.	NEW MATERIALS AND NEW MODELS OF SPECIAL EQUIPMENT
14:30–14:50	OL	Perevislov S.N.	SYNTHESIS OF A NEW MATERIAL BY THE REACTION-DIFFUSION TURING PROCESS AND STUDY OF THE PROPERTIES OF THE DIAMOND-SILICON CARBIDE COMPOSITE
14:50–15:05	OL	Sychev M.M.	ADDITIVE TECHNOLOGIES FOR THE FABRICATION OF CERAMIC PRODUCTS
15:05–15:20	OL	Chuvildeev V.N.	GRAIN BOUNDARY DIFFUSION IN OXIDES. THEORY AND APPLICATIONS
15:20–15:35	OL	Levashov E.A.	SELF-PROPAGATING HIGH-TEMPERATURE SYNTHESIS OF STRUCTURAL CERAMICS: FROM SOLID SOLUTIONS TO HETEROPHASE COMPOSITIONS
15:50–16:15			Coffee-break

Hall Grebenschikov

16:15–16:35	IL	Noskov A.S.	POROUS OXIDE MATERIALS IN CATALYSIS
16:35–16:50	OL	Vinnik D.A.	FUNCTIONAL OXIDE MATERIALS FOR ELECTRONICS, INCLUDING PRINTED ONE
16:50–17:05	OL	Nikonorov N.V.	OPTICAL GLASSES AND GLASS-CRYSTALLINE MATERIALS FOR PHOTONIC APPLICATIONS: CURRENT STATE AND PROSPECTS FOR DEVELOPMENT
17:05–17:20	OL	Papynov E.K.	ADVANCED CAPABILITIES OF ELECTROPHYSICAL SINTERING FOR FUNCTIONAL CERAMICS AND DEVICES
17:20–17:35	OL	Sycheva A.M.	USE OF NANOPARTICLES SURFACE ENERGY TO OBTAIN HIGH-STRENGTH CONCRETE
18:30–20:00			Poster session

October 9

SYMPOSIUM "GLASS AND CERAMICS"

Hall Grebenschikov

Chair: Perevislov S.N.

14:00–14:30	IL	Sergienko V.I.	CURRENT STATE AND PROSPECTS FOR THE DEVELOPMENT OF RESEARCH IN THE FIELD OF CERAMIC AND GLASS -LIKE MATERIALS IN THE FAR EAST
14:30–14:50	IL	Popovich A.A.	ADDITIVE TECHNOLOGIES FOR FUNCTIONAL GRADIENT MATERIALS PRODUCTION
14:50–15:05	OL	Pankova T.N.	ПРОИЗВОДСТВО И БЫТОВАНИЕ ИЗДЕЛИЙ ИЗ СТЕКЛА В РОССИИ В XI – ПЕРВОЙ ПОЛОВИНЕ XVIII ВВ. КРАТКИЙ ОБЗОР
15:05–15:20	OL	Tveryanovich Yu.S.	MECHANICAL PROPERTIES OF CHALCOGENIDE GLASSES AND THE INFLUENCE OF METALLOPHILIC INTERACTIONS ON THEM
15:20–15:35	OL	Andreev O.V.	CERAMIC MATERIALS BASED ON CHALCOGENIDES OF RARE EARTH ELEMENTS
15:50–16:15			Coffee-break

Hall Grebenschikov

16:15–16:35	OL	Arbuzov V.I.	EFFECT OF ELEMENTAL COMPOSITION OF OPTICAL AND RADIATION-RESISTANT GLASSES ON THEIR QUANTITATIVE CHARACTERISTICS OF ATTENUATION OF X-RAY AND GAMMA RADIATION
16:35–16:50	OL	Yatsenko E.A.	STRUCTURE FORMATION OF POROUS GLASS MATERIALS AND PROSPECTS FOR THEIR APPLICATION
16:50–17:05	OL	Zelenina E.V.	DIFFUSION IN TWO-PHASE MATERIAL AS CONSIDERED WITH PERCOLATION TH
17:05–17:20	OL		
17:20–17:35	OL		

An abstract, colorful particle structure composed of numerous small, multi-colored dots (red, blue, yellow, white, and orange) arranged in a complex, interconnected pattern. The structure is set against a dark, almost black background, which makes the vibrant colors stand out. The overall appearance is that of a molecular model or a complex data visualization. The text 'POSTER SESSION' is overlaid on the central part of the structure.

**POSTER
SESSION**

OCTOBER 8

SECTION 1	
Fundamental bases of chemical science	163
SECTION 2	
Chemistry and technology of materials	167
SECTION 3	
Physico-chemical bases of metallurgical processes	175
SECTION 6	
Analytical chemistry: new methods and tools for chemical research and analysis	178
SECTION 7	
Catalysis in science and industry	183
SECTION 8	
Polymers and polymeric materials (including 2nd International Symposium “Modern Trends in Dendrimer Chemistry and Applications”)	185
SECTION 9	
Chemical education	189
SYMPOSIA	
12. 11 th International Frumkin symposium on electrochemistry	190
14. f-Block elements: Recent Advances and Challenges	194
16. Symposium on nuclear chemistry (BRICS+)	195
19. Symposium on medicinal chemistry	198
20. Symposium on the history of chemistry	202
23. Symposium “Glass and ceramics”	203

OCTOBER 8

SECTION 1. FUNDAMENTAL BASES OF CHEMICAL SCIENCE

1-001	Abronina P.I.	UNUSUAL TRIFLIC ACID-PROMOTED OLIGOMERIZATION OF ARABINOFURANOSIDES DURING GLYCOSYLATION
1-002	Abronina P.I.	SYNTHESIS OF OLIGOARABINOFURANOSIDES OF MYCOBACTERIUM TUBERCULOSIS USING GLYCOSYL DONORS CONTAINING BULKY SILYL GROUPS
1-003	Avilova I.A.	FULLERENE DERIVATIVES IN SOLUTIONS - STUDY BY PFG NMR
1-004	Agaveva M.U.	GERMYLENES BASED ON DIETHYLENETRIAMINES: SYNTHESIS, STRUCTURE, REACTIVITY
1-005	Adyukov I.S.	β -AROYL-CONTAINING NITRO- AND GEM-BROMONITROETHENES IN THE SYNTHESIS OF OPEN-CHAIN, CARBO- AND HETEROCYCLIC COMPOUNDS
1-006	Akulov A.A.	RADICAL C-H FUNCTIONALIZATION OF CYCLIC NITRONES AS A DIVERGENT APPROACH TO THE SYNTHESIS OF PERSPECTIVE AZAHETEROCYCLIC DERIVATIVES
1-007	Andriyanova D.V.	TRANSFORMATION OF OLIGOSULFANIDES IN THE PRESENCE OF ORGANIC BASES
1-008	Antonova M.M.	STABILITY OF POLYMERIC MICELLES BASED ON HYDROPHOBIZED HYALURONIC ACID
1-009	Astakhov N.V.	MIXED CATION SELENITE CHLORIDES WITH COMPOSITION $A_2B(SeO_3)_2Cl_2$ and $A_5B(SeO_3)_4Cl_4$: SEARCH AND STUDY OF PHYSICAL PROPERTIES
1-010	Afonina V.A.	PREDICTION SUITABLE CONDITIONS BY CONDITIONAL VARIATIONAL AUTOENCODER
1-011	Baikov S.V.	SYNTHESIS OF PLATINUM GROUP METALS COMPLEXES DECORATED WITH C C BONDS
1-012	Baikova S.O.	HETARYLATION OF AMIDOXIMES BY PYRIDINE-N-OXIDES
1-013	Bakhtiyarova Yu.V.	THE FACTORS AFFECTING UNUSUAL COURSE OF THE ALKYLATION REACTION OF CARBOXYLATE PHOPHABETAINES
1-014	Berezin A.S.	LUMINESCENT PROPERTIES OF NEW ZINC(II) TETRAHALIDE COMPOUNDS WITH TRIPHENYLPHOSPHONIUM CATION
1-015	Berlina A.N.	IMMUNOANALYSIS OF BISPENOL A USING NON-POLAR ORGANIC SOLVENTS

OCTOBER 8

SECTION 1. FUNDAMENTAL BASES OF CHEMICAL SCIENCE

1-016	Bogachenkov A.S.	"DOUBLE ARYLATION" IN $AlCl_3$ -PROMOTED TRANSFORMATION OF VINYL(DIPHENYLPHOSPHORYL) ALLENES IN BENZENE AND MESITYLENE
1-017	Bolshakov K.M.	STUDY OF THE HETEROCYCLIZATION REACTION OF 1,2-PHENYLENEDIAMINE AND CHLOROACETIC ACID DERIVATIVES IN THE PRESENCE OF SULFUR
1-018	Borisov D.D.	REACTIONS OF CYCLOHEPTATRIENE SYSTEMS WITH ZWITTERIONIC COMPLEXES OF DONOR-ACCEPTOR CYCLOPROPANES
1-019	Brovko A.O.	SYNTHESIS AND STUDY OF THE PROPERTIES OF NEW PHOTOCHEMICALLY ACTIVE NITROSORUTHENUM COMPLEXES
1-020	Budyka M.F.	COLOR-CORRELATED PHOTOSWITCH BASED ON A NEW PHOTOCHROMIC PAIR OPERATING VIA THE [2+2] PHOTOCYCLOADDITION MECHANISM
1-021	Burilov A.R.	AN UNUSUAL REARRANGEMENT OF PYRAZOLE NITRENE: HETEROCYCLIC RING-OPENING/RECYCLIZATION CASCADE
1-022	Vanina A.I.	DETERMINATION OF THE PHYSICO-CHEMICAL EFFECTS ON AN INCREASE IN THE RATE OF RADICAL FORMATION IN OXYGEN-FREE AQUEOUS-ORGANIC SYSTEMS CONTAINING METAL OXIDE NANOPARTICLES UNDER THE ACTION OF X-RAY IRRADIATION
1-023	Varaksin M.V.	C-H FUNCTIONALIZATION STRATEGY IN THE SYNTHESIS OF PHARMACOLOGICALLY ACTIVE COMPOUNDS AND FUNCTIONAL MATERIALS
1-024	Vegner M.V.	LUMINESCENT PROPERTIES OF THE pH-SENSITIVE FAMILY OF $\{Mo_6I_8\}$ COMPLEXES WITH H_2O AND OH-LIGANDS
1-025	Velmiskina Yu.A.	ESTIMATION OF THE CONTRIBUTION OF MOLECULAR VIBRATIONS TO THE FREE ENERGY OF A CHEMICAL SYSTEM
1-026	VereShchagina Ya.A.	CONFORMATIONAL ANALYSIS OF α - AND β -AMINOPHOSPHINE OXIDES IN SOLUTION. EXPERIMENT AND THEORY
1-027	VereShchagina Ya.A.	CONFORMATIONAL ANALYSIS OF α - AND β -AMINOPHOSPHINE OXIDES IN SOLUTION. EXPERIMENT AND THEORY

OCTOBER 8

SECTION 1. FUNDAMENTAL BASES OF CHEMICAL SCIENCE

1-028	Volkova D.D.	INVESTIGATION OF THE EQUILIBRIUM OF CRYSTAL VIOLET LACTONE
1-029	Voronina Yu.K.	NEW 3-ARYLDENE-1-PYRROLINIUM COORDINATION COMPOUNDS: SYNTHESIS AND STRUCTURAL FEATURES
1-030	Gavrilova E.L.	THE CYCLIZATION OF DIPHENYLPHOSPHINYLATED THIOSEMICARBAZIDES OF ACETIC AND FORMIC ACIDS
1-031	Gaifulin Ya.M.	FUNCTIONAL COORDINATION POLYMERS BASED ON THE OCTAHEDRAL CYANIDE CLUSTERS
1-032	Gaifulina V.K.	A SYSTEMATIC STUDY OF HETEROMETALLIC OCTAHEDRAL CLUSTERS [RE ₆ -XMXSE ₈ L ₆]
1-033	Gibadullina N.N.	POLYFUNCTIONAL SIX-MEMBERED NITROCYCLES BASED ON FORMALDEHYDE: SYNTHESIS AND BIOLOGICAL ACTIVITY
1-034	Gimadiev T.R.	AUTOMATION OF MOLECULE SYNTHESIS WITH DESIRED PROPERTIES
1-035	Gomonov K.A.	SYNTHESIS OF NEW HETEROCYCLIC COMPOUNDS BASED ON CARBONYL-CONTAINING FURAN-3-CARBOXYLATES
1-036	Grebenyuk M.A.	HIGH TEMPERATURE SUPERCONDUCTIVITY IN CLATHRATE Ca-Y HYDRIDES
1-037	Gridchin S.N.	THERMODYNAMIC PARAMETERS OF PROTOLYTIC AND COORDINATION EQUILIBRIA IN SOLUTIONS OF SOME AMINOACIDS AND COMPLEXONES
1-038	Kapustin R.V.	ОБРАЗОВАНИЕ ПЕРЕХОДНОГО ФАЗОВОГО СОСТОЯНИЯ В ТОНКИХ СЛОЯХ ОРГАНИЧЕСКИХ СИСТЕМ
1-039	Gugkaeva Z.T.	REGIO- AND DIASTEREOSELECTIVE SYNTHESIS OF α -AMINO ACID DERIVATIVES STARTING FROM Ni(II) COMPLEX OF GLYCINE
1-040	Gusev D.I.	PD AND CU-CATALYZED AMINATION IN THE SYNTHESIS OF FLUORESCENT DETECTORS – POTENTIAL CHEMOSENSORS
1-041	Deltsov I.D.	POLYHETEROCYCLIC POLYNITROPHENYL DERIVATIVES OF AZO-1,2,5-OXADIAZOLES

OCTOBER 8

SECTION 1. FUNDAMENTAL BASES OF CHEMICAL SCIENCE

1-042	Demakov P.A.	ALIPHATIC N,N'-DIOXIDES AS LIGANDS FOR THE CONSTRUCTION OF FUNCTIONAL METAL-ORGANIC FRAMEWORKS
1-043	Dubskikh V.A.	A SERIES OF METAL-ORGANIC COORDINATION POLYMERS WITH ENHANCED SORPTION CHARACTERISTICS
1-044	Dudko E.R.	COORDINATION POLYMERS BASED ON DERIVATIVES OF 2,1,3-BENZOCHALCOGENADIAZOLES AS A LUMINESCENT SENSORS FOR H ₂ PO ₄ ANIONS AND CATIONS OF THREE-CHARGED METALS
1-045	Egorov G.I.	THERMAL AND PRESSURE CHARACTERISTICS GLYCEROL MIXTURES OF NON-ELECTROLYTES
1-046	Egorov G.I.	THERMAL AND PRESSURE CHARACTERISTICS GLYCEROL MIXTURES OF NON-ELECTROLYTES
1-047	Egorova A.V.	NEW FUNCTIONALIZED PHOSPHONATES WITH PHOTO-SWITCHABLE INHIBITORY ACTIVITY AGAINST CHOLINESTERASE ENZYMES
1-048	Enikeeva M.O.	PHASE EQUILIBRIA OF THE LREPO ₄ -YPO ₄ QUASI-BINARY SYSTEMS (LRE = LA, GD)
1-049	Ermolaev A.V.	PREPARATION OF NEW COORDINATION POLYMERS BASED ON CLUSTER COMPLEXES OF RHENIUM AND COPPER (II) OR SILVER (I)
1-050	Zhezhera M.	STUDY OF THE INFLUENCE OF SUBSTITUENTS ON THE STRUCTURE AND THERMAL PROPERTIES OF VOLATILE Cu ²⁺ COMPLEXES

OCTOBER 8

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

2-001	Agabekov V.E	COMPOSITE MATERIAL BASED ON CHITOSAN, POLYANILINE/ POLYPYRROLE COPOLYMER AND ZnO NANOPARTICLES
2-002	Aleksandrov E.V.	TOPOLOGICAL RULES FOR DESIGN OF FRAMEWORK, LAYERED AND CHAIN STRUCTURES
2-003	Alekseev A.A.	STUDY OF THE FORMATION PROCESS OF GEOPOLYMERS BASED ON ALUMINOSILICATES WITH DIFFERENT PARTICLE MORPHOLOGY
2-004	Alimova A.N.	SYNTHESIS AND STUDY OF A SURFACTANT BASED ON DODECAN ACID N-(2 AMINOETHYL)-1,2-ETHANDIAMINE WITH 1,2 EPOXYPROPANE
2-005	Albrekht Ya.N.	NITROGEN DIOXIDE SORPTION BY ZIRCONIUM METAL- ORGANIC FRAMEWORKS (Zr-MOF)
2-006	Amirkhanashvili K.D.	RE-REFINEMENT OF CRYSTAL STRUCTURE OF BIS(LIDOCAINE) TETRACHLORIDOZINCATE(II)
2-007	Aristova V.M.	PHYSICO-CHEMICAL PROPERTIES OF REPELLENT COMPOSITES
2-008	Baev E.I.	SYNTHESIS OF PARA-TERT-BUTYL-SEC-BUTYLBENZENE
2-009	Balabanova E.A.	THERMODYNAMIC PROPERTIES OF SrO-Al ₂ O ₃ -SiO ₂ AND BaO- Al ₂ O ₃ -SiO ₂ SYSTEMS AT HIGH TEMPERATURES
2-010	Balybina V.A.	NANOSTRUCTURED MAGNETIC ZEOLITE COMPOSITES FOR CESIUM- 137 EXTRACTION
2-011	Barilyuk D.V.	PICKERING EMULSIONS STABILIZED BY TiO ₂ NANOPARTICLES
2-012	Baryshnikova O.V.	FERROELECTRIC AND NONLINEAR OPTICAL PROPERTIES Sr _{9-x} Me _x Tm(VO ₄) ₇ , Me = Ca, Ba, Pb
2-013	Bayan E.M.	SYNTHESIS OF THIN NANOCRYSTALLINE FILMS BY OXIDATIVE PYROLYSIS

OCTOBER 8

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

2-014	Belov A.A.	REACTION SYNTHESIS OF MINERAL-LIKE SrTiO ₃ CERAMICS FOR IMMOBILISATION OF ⁹⁰ Sr WITH ADDITIONAL IN-SITU SYNCHROTRON STUDIES
2-015	Belyakov A.N.	PHYSICAL AND ELASTIC PROPERTIES OF CERAMICS «IDEAL»
2-016	Blokhina M.Kh.	POLYCARBOSILANES AND METALLOCARBOSILANES – BINDERS FOR SiC-CERAMICS
2-017	Bogdanov A.I.	PROTECTIVE DIFFUSION ALUMINIDE COATINGS FOR TITANIUM AND ITS ALLOYS
2-018	Bogdanova E.V.	RELAXATION PROCESSES IN ORGANOPLASTICS BASED ON PARAARAMIDE FIBERS
2-019	Borisov R.V.	HYDROTHERMAL SYNTHESIS OF NANOMATERIALS BASED ON NOBLE AND NON-FERROUS METALS
2-020	Borisov R.V.	HYDROTHERMAL SYNTHESIS OF NANOMATERIALS BASED ON NOBLE AND NON-FERROUS METALS
2-021	Borisov S.V.	DEVELOPMENT OF HIGH-FLAMMABLE GLASS PLASTICS BASED ON EPOXY OLIGOMERS MODIFIED WITH COPPER PHOSPHATES
2-022	Bochko T.N.	INFLUENCE OF RUBBER WASTE PYROLYSIS TEMPERATURE ON THEIR PHYSICAL AND CHEMICAL PROPERTIES
2-023	Bridenko L.A.	ENCAPSULATION OF TEA POLYPHENOLS INTO MELAMINE BARBITURATE SUPRAMOLECULAR ASSEMBLY
2-024	Bulychev N.A.	SYNTHESIS OF MIXED OXIDE NANOPARTICLES IN PLASMA DISCHARGE UNDER ULTRASONIC TREATMENT
2-025	Burban E.A.	IRON OXIDE NANOPARTICLES WITH A WIDE SIZE DISTRIBUTION OBTAINED BY ELECTROPHYSICAL METHODS: PROSPECTS FOR BIOAPPLICATIONS
2-026	Burmakina O.V.	A METHOD FOR PROCESSING THE SPENT MELT OF TITANIUM CHLORINATORS

OCTOBER 8

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

-
- 2-027 **Bukhteeva E.O.** INFLUENCE OF THE TOPOLOGICAL STRUCTURE OF CRYSTAL SUBSTANCES ON THEIR MECHANICAL PROPERTIES
-
- 2-028 **Bushkova T.M.** ADDITIVE FORMATION OF OXYGEN-FREE SILICA-CONTAINING CERAMICS
-
- 2-029 **Bykova A.D.** COMBINED TECHNOLOGIES FOR PRODUCING WEAR-RESISTANT MAO-COATINGS
-
- 2-030 **Vanshina P.A.** HIGH ENTROPY PEROVSKITE-LIKE OXIDES WITH COMBINATION OF DIFFERENT VALENCY CATIONS
-
- 2-031 **Vasileva E.A.** LIPID NANOCARRIERS FOR THERAPY OF ACUTE ORGANOPHOSPHATE POISONING
-
- 2-032 **Vikulova E.S.** HIGH-PURITY METALORGANIC COMPOUNDS FOR MICROELECTRONICS: SYNTHESIS AND QUALITY CONTROL
-
- 2-033 **Volkova N.E.** CRYSTAL STRUCTURE AND PROPERTIES OF OXIDES IN THE $\text{PRCO}_3\text{-}\delta\text{-PRFE}_3\text{-}\delta\text{-BACO}_3\text{-}\delta\text{-BAFE}_3\text{-}\delta$ SYSTEM
-
- 2-034 **Flerko M.Yu.** INVESTIGATION OF PHYSICAL PROPERTIES OF HYDROZOLES OF 2D LAYERED MATERIALS OF VALLERIITE TYPE
-
- 2-035 **Vorobeva A.A.** POLYMORPHISM AND MAGNETIC PROPERTIES OF HALOGENIDES OF 4d- AND 5d-METALS
-
- 2-036 **Voronov R.S.** THE EFFECT OF THE CONDITIONS OF THE REACTION OF REDUCTION OF POTASSIUM ZIRCONIUM FLUORIDE WITH METALLIC SODIUM
-
- 2-037 **Voshkina O.A.** PHASE EQUILIBRIA IN THE Ag-In-Pd-Sn SYSTEM
-
- 2-038 **Gavrikova Yu.I.** INFLUENCE OF COATING CONDITIONS ON THE PROPERTIES OF CATALYTIC $\text{CeO}_2\text{-ZrO}_2$ AND Mo_2C LAYERS OBTAINED BY SOL-GEL METHOD
-
- 2-039 **Galeeva A.I.** WETTING ABILITY, ADHESION WORK OF SYSTEMS BASED ON NONIONIC SURFACTANTS WITH CARBON C-DOTS ON SURFACES
-

OCTOBER 8

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

-
- 2-040 **Gallyamova R.F.** OBTAINING SiO₂ COATING ON THE TREATED SURFACE OF CARBON FIBERS
-
- 2-041 **Galyametdinov Yu.G.** STRUCTURAL-PHASE CHANGES AND LUMINESCENT PROPERTIES OF LIQUID CRYSTAL SYSTEMS BASED ON SURFACTANTS WHEN DOPED WITH CARBON C-DOTS
-
- 2-042 **Gapankova E.I.** BIOCIDAL ADDITIVES IN MEMBRANE TECHNOLOGY
-
- 2-043 **Gatina E.N.** EFFECT OF COBALT-CONTAINING COMPONENTS ON HYDROTHERMAL SYNTHESIS OF NANOTUBES Ni₃Si₂O₅(OH)₄
-
- 2-044 **Gatina E.N.** EFFECT OF COBALT-CONTAINING COMPONENTS ON HYDROTHERMAL SYNTHESIS OF NANOTUBES Ni₃Si₂O₅(OH)₄
-
- 2-045 **Girsova M.A.** NEW INORGANIC PHOTOLUMINOPHORES ACTIVATED BY BISMUTH AND YTTRIUM IONS ON THE BASIS OF HIGH-SILICA NANOPOROUS MATRICES
-
- 2-046 **Glazkova D.A.** MODIFICATION OF HAMMERS METHOD FOR SYNTHESIS OF GRAPHENE OXIDE (GO) AND REDUCED GRAPHENE OXIDE (RGO)
-
- 2-047 **Glebov N.S.** SYNTHESIS OF CHIRAL DERIVATIVES OF 2,2"-BIPYRIDINE
-
- 2-048 **Godzisheskaya A.A.** THE DYNAMICS OF CHANGES IN PHYSICOCHEMICAL PROPERTIES OF METAL-CONTAINING NATURAL POLYMERS FILMS
-
- 2-049 **Golovanov E.V.** SPECTRAL CHARACTERISTICS OF RAMAN SCATTERING OF SORPTION COMPOSITIONS BASED ON ACRYLAMIDE FOAM GELS AND NANOSORBENTS
-
- 2-050 **Golovacheva A.A.** DEVELOPMENT OF MULTIFUNCTIONAL MICROPOROUS IONIC POLYMERS FOR ADSORPTION AND CATALYTIC CONVERSION OF CO₂ INTO CYCLIC CARBONATES
-
- 2-051 **Golovin S.N.** SYNTHESIS OF HIGH-ENTROPY LAYERED DOUBLE HYDROXIDE WITH COMPOSITION MgNiCo/AlFeY BY COPRECIPITATION METHOD FOLLOWED BY MICROWAVE-HYDROTHERMAL TREATMENT
-

OCTOBER 8

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

2-052	Golubina E.N.	HYDROPHOBIC COATINGS BASED ON ORGANIC ACIDS SALTS
2-053	Golubchikov D.O.	OSTEOCONDUCTIVE COMPOSITE SCAFFOLDS BASED ON METHACRYLATED POLYCAPROLACTONE FOR BONE TISSUE REGENERATION
2-054	Gorbunov I.S.	WILLEMITE GLASS AS A PROMISING MATRIX FOR QUANTUM DOTS
2-055	Gorbunova O.V.	EFFECT OF MECHANICAL ACTIVATION ON POROUS STRUCTURE OF ASPHALT-BASED CARBON
2-056	Gorodetskaya A.V.	SiC FIBERS BASED ON POLYCARBOSILANES: STRUCTURE AND PROPERTIES
2-057	Grobovoi I.S.	DEFECTS, THERMODYNAMICS AND ELECTRONIC STRUCTURE OF THE ORDERED RUDDLESDEN-POPPER PHASES
2-058	Grunin A.A.	PRODUCTION SILICON CARBIDE COATINGS FOR POWER MICROELECTRONICS
<u>2-059</u>	GuShchina V.A.	EXPLORING SEMICONDUCTOR PEROVSKITE NANOPARTICLES CsBX ₃ (B = Pb, Mn, X = Br, Cl): SYNTHESIS, STRUCTURE, AND OPTICAL BEHAVIOR
2-060	Danilenko N.V.	BIOLOGICALLY ACTIVE FLUOROSULFATE BENZOXAZOLE PRODUCTS
2-061	Dedkova D.A.	DEVELOPMENT OF TECHNOLOGY FOR THE PRODUCTION OF A GLASS-CARBON ELECTRODE FOR THE DETERMINATION OF HEAVY METAL IONS BY INVERSION VOLTAMMETRY
2-062	Demina P.A.	ULTRA-STABLE NANOFIBER LUMINESCENT COMPOSITE MATERIALS BASED ON POLYTETRAFLUOROETHYLENE AND PEROVSKITE NANOPARTICLES
2-063	Dobrovolskii A.A.	GENERATION OF SENSOR SIGNAL IN TIN DIOXIDE OBTAINED BY PEROXIDE ASSISTED SOL GEL METHOD

OCTOBER 8

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

-
- 2-064 **Dokin E.S.** AN INNOVATIVE METHOD FOR ONE-STEP SYNTHESIS OF NANO-SIZED SYSTEMS OF FE, TI, SI, B CARBIDES.
-
- 2-065 **Donetskii K.I.** SCIENTIFIC APPROACHES TO THE MANUFACTURE OF CARBON FIBER BY VACUUM FORMING OF SEMIPREG
-
- 2-066 **Dorofeev A.A.** INVESTIGATION OF THE SPRAY DRYING PROCESS OF SUSPENSIONS CONSISTING OF COMPOSITE NANOPARTICLES BASED ON TUNGSTEN
-
- 2-067 **Drankov A.N.** SYNTHESIS AND RESEARCH OF COMPOSITE MATERIALS BASED ON FERROCYANIDES FOR CAESIUM EXTRACTION FROM LIQUID MEDIA
-
- 2-068 **Elovikov D.P.** FORMATION OF THE $Bi(Al_{1-x}Fex)_3(PO_4)_2(OH)_6$ WITH ALUNITE-LIKE STRUCTURE UNDER HYDROTHERMAL CONDITIONS
-
- 2-069 **Erofeev V.T.** MATERIAL DURABILITY ASSESSMENT TAKING INTO ACCOUNT BIODEGRADATION PROCESSES
-
- 2-070 **Efromeev L.M.** HETEROANIONIC REE COMPLEXES WITH PENTAFLUOROBENZOIC AND 2,4,6-TRIMETHYLBENZOIC ACIDS AND AROMATIC N-DONOR LIGANDS
-
- 2-071 **Zhigalov D.V.** POLYCARBOSILANES AND COMPOSITE MATERIALS COMPONENTS BASED ON THEM
-
- 2-072 **Zagidullin A.A.** PHOSPHACYCLOPENTADIENIDE ANIONS – BUILDING BLOCKS FOR ORGANOPHOSPHORUS CHEMISTRY
-
- 2-073 **Zvekov A.A.** ADSORPTION PERFORMANCE OF MAGNETIC CARBONACEOUS MATERIALS BASED ON BAU-A AND AG-3
-
- 2-074 **Zelentsov D.O.** MUTUAL INFLUENCE OF SURFACTANTS AND NANOPARTICLES OF DIFFERENT NATURE IN AQUEOUS DISPERSIONS
-
- 2-075 **Zelyakh Ya.D.** RELATIONSHIP OF SELECTIVE RHODIUM EXTRACTION IN CONCENTRATE DEPENDING ON THE COMPOSITION OF TECHNOLOGICAL SOURCES
-

OCTOBER 8

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

2-076	Sinolits A.V.	#Н/Д
2-077	Zuev M.G.	SYNTHESIS AND PROPERTIES OF NEW APCONVERSION LUMINOPHORS $Sr_2Y(8-X-Y)YbYHoXSi_6O_{26}$
2-078	Zykov F.M.	INVESTIGATION OF THE PHOTOCATALYTIC PROPERTIES OF NANOSTRUCTURED M_n DOPED TiO_2
2-079	Zyryanov G.V.	USE OF MECHANOSYNTHESIS FOR THE PRODUCTION OF IMPORTANT (AZA)HETEROCYCLES AND FUNCTIONAL MATERIALS
2-080	Ivanov N.P.	HYDROPHOBIC MAGNETIC SORPTION MATERIALS BASED ON LAYERED DOUBLE HYDROXIDES FOR SELECTIVE EXTRACTION OF PETROLEUM PRODUCTS FROM LIQUID MEDIA
2-081	Idrisov T.A.	LUMINESCENT PROPERTIES OF PHOTOACTIVE (E)-(4-ARYLBUT-1-en-3-in-1-yl)-O-CARBORANES
2-082	Izmestev A.N.	SYNTHESIS OF NEW SPIROCYCLIC OXINDOLE DERIVATIVES AND THEIR ISOMERIZATION PATHWAYS IN BASIC MEDIUM
2-083	Inshakova K.A.	THE APPLICATION OF HIGH-MOLECULAR COMPOUNDS TO INCREASE THE EFFICIENCY OF ELECTROFLOTATION PURIFICATION OF $CaCl_2$ PROCESS SOLUTION
2-084	Isakov S.S.	SYNTHESIS OF IMIDAZOTHIAZOLOTRIAZINES AND THEIR TRANSFORMATION INTO IMIDAZOTHIAZINOTRIAZINES
2-085	Istomin P.V.	SYNTHESIS OF Ti_3SiC_2 MAX PHASE CERAMIC MATERIALS REINFORCED WITH C/SIC COMPOSITE FIBERS
2-086	Istomina E.I.	APPLICATION OF TITANIUM COATING ON C/SIC COMPOSITE FIBERS USING SOL-GEL TECHNOLOGY
2-087	Kabanova V.S.	HIGHLY EFFECTIVE TECHNOLOGY FOR PRODUCING METHYLETHYLKETONE – A VALUABLE PETROCHEMICAL SYNTHESIS PRODUCT
2-088	Kaimonov M.R.	COMPOSITE BIOCERAMIC MATERIALS FOR THE ELIMINATION OF BONE TISSUE DEFECTS

OCTOBER 8

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

-
- 2-089 **Kalmakhelidze M.V.** TOPOLOGICAL ANALYSIS OF METAL-ORGANIC FRAMEWORKS FOR DRUG DELIVERY.
-
- 2-090 **Kapustina O.V.** INVESTIGATION OF SORPTION-KINETIC PROPERTIES OF A 5-FU DRUG DELIVERY SYSTEM BASED ON CALCIUM SILICATE
-
- 2-091 **Karavaev S.E.** SYNTHESIS OF POLYMER FORMS OF PHOSPHORUS UNDER THE INFLUENCE OF ACCELERATED ELECTRONS
-
- 2-092 **Karpov D.V.** AN INVESTIGATION OF CORRELATION EFFECTS IN HIGHLY CONCENTRATED MAGHEMITE NANOPARTICLES HYDROSOLS
-
- 2-093 **Karpov D.V.** AN INVESTIGATION OF CORRELATION EFFECTS IN HIGHLY CONCENTRATED MAGHEMITE NANOPARTICLES HYDROSOLS
-
- 2-094 **Kasymova L.** THE EFFECT OF SYNTHESIS CONDITIONS ON THE COLLOID-CHEMICAL PROPERTIES OF MOLYBDENUM-VANADIUM BLUE SOLS WITH A MOLAR RATIO OF [Mo]:[V]=90:10
-
- 2-095 **Kashekov D.Yu.** COMPLEX PROCESSING OF ASH FROM FUEL OIL COMBUSTION WITH VANADIUM AND NICKEL EXTRACTION.
-
- 2-096 **Kerbitskaya M.D.** SYNTHESIS OF BRANCHED PEG-CONTAINING LIPID
-
- 2-297 **Flerko M.Yu.** SYNTHESIS AND STUDY OF SUPER-CONCENTRATED ORGANOSOLS OF SILVER NANOPARTICLES
-

OCTOBER 8

SECTION 3. PHYSICO-CHEMICAL BASES OF METALLURGICAL PROCESSES

3-001	Abdullin I.Sh.	PLASMOCHEMICAL PROCESSES IN JET HIGH-FREQUENCY CAPACITIVE DISCHARGE OF REDUCED PRESSURE FOR CREATION OF NANODIFFUSION LAYERS IN METALS AND THEIR ALLOYS
3-002	Bastrikov R.M.	INFLUENCE OF THE CALCINATION OF STABILIZED ZIRCONIUM DIOXIDE POWDER ON THE DISTRIBUTION AND PORES TYPE
3-003	Bakhtiyarova Yu.V.	INVESTIGATION OF THE ELEMENTAL COMPOSITION OF FENCING BLADES MADE OF MARAGEN STEEL
3-004	Vakhrushev R.A.	CRITERION FOR UNIFORMITY OF MIXING OF NANO- AND MICRO-POWDERS
3-005	Vitkina G.Yu.	EVALUATION OF THE PROPERTIES OF TITANOMAGNETITE IRON ORE MATERIALS TO DETERMINE THEIR METALLIZATION ABILITY
3-006	Vydysh S.O.	THE ENTHALPY OF FORMATION OF CRYSTAL HYDRATES, DOUBLE AND BASIC SALTS CALCULATION ADJUSTED FOR THE SHARE CONTRIBUTIONS OF BINDING ENERGIES
3-007	Davydov D.I.	INFLUENCE OF LASER PRINTING CONDITIONS ON THE STRUCTURE AND MECHANICAL PROPERTIES OF NICKEL-BASED SUPERALLOYS MADE BY LASER 3D PRINTING
3-008	Demchenko A.A.	RESEARCH OF THE STRUCTURE AND PHYSICAL-MECHANICAL PROPERTIES OF A BILLET FROM HEAT-RESISTANT NICKEL ALLOY EP741NP FROM METAL POWDER OBTAINED BY THE METHOD OF GAS ATOMIZATION
3-009	Drozdov A.A.	PRECURSORS FOR 3D TECHNOLOGIES FROM ALLOYS BASED ON REFRACTORY NiAl AND RuAl
3-010	Eremchenko A.E.	SEPARATION OF Li, Co, Mn, Ni, Ti IONS FROM THEIR MIXTURE BY A HYDROPHOBIC DEEP EUTECTIC SOLVENT BASED ON TOPO AND D2EHPA
3-011	Zhemkov A.A.	ANALYSIS AND ADJUSTMENT OF LADLE TREATMENT TECHNOLOGY OF ISOTROPIC STEEL
3-012	Zinoveev D.V.	DOUBLE ARYLATION" IN AlCl ₃ -PROMOTED TRANSFORMATION OF VINYL(DIPHENYLPHOSPHORYL) ALLENES IN BENZENE AND MESITYLENE

OCTOBER 8

SECTION 3. PHYSICO-CHEMICAL BASES OF METALLURGICAL PROCESSES

3-013	Isaev M.K.	THE SEARCH FOR RATIONAL WAYS TO INTRODUCE CALCIUM INTO STEEL
3-014	Karasev V.S.	CONTROL OF DUPLEX CORROSION-RESISTANT STEEL OPERATIONAL PROPERTIES BY MEANS OF REM MODIFICATION
3-015	Karpov I.D.	ORGANIZATION OF DIGITAL PROCESSING OF DWTT RESULTS IN METALLURGICAL LABORATORIES
3-016	Karpov M.I.	NEW ACHIEVEMENTS IN THE PRODUCTION TECHNOLOGY OF STRUCTURAL AND FUNCTIONAL MATERIALS BASED ON MOLYBDENUM ALLOYS OBTAINED BY VACUUM MELTING
3-017	Krylosov A.V.	DEVELOPMENT OF FOUNDRY WASTE RECYCLING TECHNOLOGY
3-018	Kozhukhov A.A.	IMPROVING THE MACHINIBILITY OF LEAD-FREE AUTOMATIC STEEL GRADES
3-019	Komolova O.A.	MATHEMATICAL MODELING OF LADLE TREATMENT
3-020	Malginov A.N.	DEVELOPMENT OF MATERIALS AND TECHNOLOGIES FOR THE PRODUCTION OF NPP EQUIPMENT WITH THE VVER-S-1000 REACTOR PLANT, PROVIDING AN OPERATIONAL LIFE OF UP TO 80 YEARS
3-021	Masharipov S.Z.	EFFECT OF TITANIUM CONTENT AND THERMO-DEFORMATION PARAMETERS ON THE MECHANICAL PROPERTIES OF HIGH-STRENGTH LOW-CARBON STEELS
3-022	Melnik F.	FEATURES PRASEODIMIUM AND NEODIMIUM EXTRACTION FROM NITRIC ACID SOLUTIONS BY MIXTURES OF EXTRACTANTS
3-023	Morozov A.O.	COMPARISON OF METHODS FOR DETERMINING THE CONTENT OF NON-METALLIC INCLUSIONS IN STEEL SAMPLES
3-024	Orlov Yu.A.	OBTAINING A POWDER COMPOSITION FROM 42HNM ALLOY AND SYNTHESIS OF SAMPLES FOR TESTING USING LAYER-BY-LAYER LASER SURFACING TECHNOLOGY
3-025	Pavlenko A.S.	CALCULATION OF THE Ag-Pd-Sn SYSTEM USING AN ASSOCIATED SOLUTION MODEL FOR THE MELT
3-026	Parshina A.S.	RESEARCH NONMETALLIC INCLUSIONS AND PRECIPITATES IN ELECTRICAL NON-ORIENTED STEELS

OCTOBER 8

SECTION 3. PHYSICO-CHEMICAL BASES OF METALLURGICAL PROCESSES

3-027	Pikulín K.V.	KINETICS OF INTERACTION OF WOLFRAMITE CONCENTRATE WITH PO-TASSIUM CARBONATE
3-028	Rovbo A.S.	DEVELOPMENT OF TECHNOLOGY FOR PRODUCTION OF BISMUTH-CONTAINING GROUPS OF FREE-CUTTING STEEL GRADES
3-029	Sergeeva S.V.	THE EFFECT OF B ₂ O ₃ ON THE VISCOSITY OF HIGH-MAGNESIA BLAST FURNACE SLAGS
3-030	Sergeeva S.V.	THE EFFECT OF B ₂ O ₃ ON THE VISCOSITY OF HIGH-MAGNESIA BLAST FURNACE SLAGS
3-031	Slautin O.V.	WEAR-RESISTANT LAMINATE IRON ALUMINIDE COATINGS ON CARBON STEEL
3-032	Smetannikov A.N.	TECHNOLOGY OF DESULFURATION AND MICROLLOYING OF LOW CARBON STEEL WITH BORON UNDER SLAG OF THE CaO-SiO ₂ -MgO-Al ₂ O ₃ -B ₂ O ₃ SYSTEM
3-033	Stepovich M.A.	ABOUT THE USAGE OF UNDERWATER PLASMA FOR MODIFYING THE SURFACE OF BELT AMORPHOUS ALLOYS FeSiB
3-034	Fattalova D.R.	INFLUENCE OF ULTRASOUND ON THE STRUCTURE OF A CRYSTALLIZING MATERIAL IN ADDITIVE TECHNOLOGIES
3-035	Khasanov M.Sh.	PROSPECTS FOR THE EFFICIENT PRODUCTION OF NICKEL AND COBALT FROM LATERITE ORES WITH A LOW CONTENT OF VALUABLE COMPONENTS
3-036	Shubin A.B.	GALLIUM PASTES: SINGLE-COMPONENT STARTING MATERIAL AND IN SITU SYNTHESIS OF LIQUID EUTECTIC

OCTOBER 8

SECTION 6. ANALYTICAL CHEMISTRY: NEW METHODS AND TOOLS FOR CHEMICAL RESEARCH AND ANALYSIS

Moderator Bogomolov A.Yu.

6-001	Fedorov Yu.V.	CROWN-CONTAINING ORGANIC AND ORGANIC-INORGANIC HYBRID SYSTEMS AS CHEMICAL SENSORS IN LIQUIDS AND GASES
6-002	Kuchmenko T.A.	«COLORISTIC» - НОВЫЙ СПОСОБ КЛАССИФИКАЦИИ ДЛЯ ИСКУССТВЕННОГО ОБОНЯНИЯ
6-003	Umarkhanov R.U.	CADMIUM SULFIDE QUANTUM DOTS WITH VARIABLE COMPOSITION SHELL – NEW EFFICIENT PIEZO SENSOR MODIFIERS
6-004	Dorovskaya E.S.	WEARABLE GAS SENSOR SYSTEM TO ASSESS THE STATE OF HEALTH BY SKIN ODOR
6-005	Umarkhanov R.U.	CADMIUM SULFIDE QUANTUM DOTS WITH VARIABLE COMPOSITION SHELL – NEW EFFICIENT PIEZO SENSOR MODIFIERS
6-006	Goryacheva O.A.	MODIFICATION OF QUANTUM DOT SURFACE FOR USE IN ANALYTICAL SYSTEMS
6-007	Akhmedov M.A.	THE STUDY OF GRAPHENE QUANTUM DOTS IN DMSO AND DMF SOLUTIONS BY MOLECULAR SPECTROSCOPY METHOD
6-008	Proskurnin M.A.	MEMBRANE FRACTIONATION AS A BASIS FOR MULTISPECTRAL ANALYSIS OF SOIL ORGANIC MATTER
6-009	Proskurnin M.A.	MEMBRANE FRACTIONATION AS A BASIS FOR MULTISPECTRAL ANALYSIS OF SOIL ORGANIC MATTER
6-010	Brzhezinskiĭ A.S.	DEVELOPMENT OF METHODOLOGY OF VOLCANIC ASH NANOPARTICLES EXTRACTION
6-011	Sutormin O.S.	ENZYMATIC INHIBITOR ANALYSIS OF THE DEGREE OF SOIL CONTAMINATION WITH TOXICANTS
6-012	Goncharov A.Yu.	INFLUENCE OF KINETIC EFFECTS ON SELECTIVITY OF ENANTIOMERS SEPARATION IN CHIRAL CHROMATOGRAPHY
6-013	Kazimirova K.O.	COMPARATIVE CHARACTERISTICS OF SORPTION AND CONCENTRATION OF FOOD AZO DYES ON MAGNETITE NANOPARTICLES AND NANOFIBERS

OCTOBER 8

SECTION 6. ANALYTICAL CHEMISTRY: NEW METHODS AND TOOLS FOR CHEMICAL RESEARCH AND ANALYSIS

6-014	Chikurova N.Yu.	DEVELOPMENT, STUDY AND CLASSIFICATION OF NOVEL ADSORBENTS FOR HYDROPHILIC INTERACTION LIQUID CHROMATOGRAPHY WITH AMIDE GROUPS AND MACROMOLECULES IN THE FUNCTIONAL LAYER
6-015	Shaposhnikov L.A.	NEW RAPID APPROACHES FOR DETERMINING THE ENZYMIC ACTIVITY OF LACTOBACTERIAL ENZYMES USING HILIC
6-016	Terekhov R.P.	STEREOSELECTIVE QUANTITATIVE ANALYSIS OF DIHYDROQUERCETIN DIASTEREOMERS
6-017	Pankov D.I.	CHROMATOGRAPHIC SEPARATION OF DIHYDROQUERCETIN DIASTEREOMERS
6-018	Naumkina V.N.	COMPOSITES BASED ON COBALT TRIMESINATE AND GRAPHENE OXIDE AS EFFECTIVE SORBENTS FOR SOLID-PHASE EXTRACTION OF BRILLIANT GREEN
6-019	Smirnova S.V.	NEW AQUEOUS TWO-PHASE SYSTEMS BASED ON BENZETHONIUM CHLORIDE AND ANIONIC SURFACTANTS FOR EXTRACTION AND PRECONCENTRATION
6-020	Bachinskaya N.A.	SELECTION OF PARAMETERS IN THE DEVELOPMENT OF METHODS FOR DETERMINING TAURINE USING HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY
6-021	Cherepanova N.D.	SELECTION OF PARAMETERS IN THE DEVELOPMENT OF METHODS FOR DETERMINING TAURINE USING HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY
6-022	Mysina Yu.S.	DETERMINATION OF CAROTENOIDS IN FEED AND FEED ADDITIVES BY HPLC METHOD WITH SPECTROPHOTOMETRIC DETECTION
6-023	Bogomolov A.Yu.	СПЕКТРАЛЬНОЕ ОПРЕДЕЛЕНИЕ СОМАТИЧЕСКИХ КЛЕТОК В МОЛОКЕ В ОБЛАСТИ 400-1000 НМ
6-024	Okina E.V.	FLUORIMETRIC ANALYSIS IN DETERMINING THE RESIDUAL CONCENTRATIONS OF OXYTETRACYCLINE IN FOOD PRODUCTS
6-025	Priima A.D.	DETERMINATION OF TYLOSIN RESIDUES IN MEAT BY ELISA
6-026	Saranov I.A.	DIFFERENTIAL SCANNING CALORIMETRY OF COWS MILK FAT WITH DIFFERENT KEEPING CONDITIONS

OCTOBER 8

SECTION 6. ANALYTICAL CHEMISTRY: NEW METHODS AND TOOLS FOR CHEMICAL RESEARCH AND ANALYSIS

6-027	Tankova A.V.	FLUOROMETRIC ANALYSIS FOR DETERMINING RESIDUAL CONCENTRATIONS OF OXYTETRACYCLINE IN FOOD PRODUCTS
6-028	Chernomorova M.A.	DETERMINATION AND SEPARATION OF FOOD ADDITIVES E110 AND E102 IN REAL OBJECTS (BEVERAGES) BY SOLID-PHASE EXTRACTION WITH SPECTROPHOTOMETRIC DETECTION
6-029	Tikhomirova T.I.	SORPTION-COLOROMETRIC DETERMINATION OF FOOD DYES USING IMMOBILIZED MICROPROBES
6-030	Nekrasov D.Yu.	DETERMINATION OF THE DIETHYLCARBAMAZINE AND BITHIOL RESIDUES IN LIVESTOCK PRODUCTS
6-031	Shik A.V.	KINETIC-BASED METHOD FOR THE ESTIMATION OF INCREASED Fe ²⁺ CONTENT IN NATURAL WATER
6-032	Bondareva L.G.	DEVELOPMENT OF A UNIVERSAL APPROACH FOR DETERMINING PESTICIDES OF THE PYRAZOLE CARBOXAMIDE GROUP IN VEGETABLES, FRUIT AND GRAIN CROPS AND THEIR PROCESSING PRODUCTS
6-033	Voloshina E.S.	DETERMINATION OF THE SURFACE CONCENTRATION OF α -TOCOPHEROL ACETATE BY OXYTHERMOGRAPHY AND UV SPECTROPHOTOMETRY
6-034	Chervonnaya T.A.	GC-MS DETERMINATION OF PAHs AND PCBs IN WATER USING EXTRACTIVE FREEZING-OUT
6-035	Spirina V.L.	IDENTIFICATION OF VOLATILE ORGANIC COMPOUNDS EMITTED BY PLANTS OF THE HERBACEOUS-SHRUB LAYER OF THE PERM REGION FORESTS
6-036	Ivanova N.V.	FIBERS BASED ON SINGLE WALLED CARBON NANOTUBE FILMS – A NEW ELECTRODE MATERIAL FOR ELECTROCHEMICAL ANALYSIS
6-037	Samodelova M.V.	SENSOR PLATFORMS BASED ON PLASMONIC NANOCOMPOSITE MATERIALS FOR DIFFERENTIATION AND DETERMINATION OF ECOTOXICANTS AND BIOLOGICALLY ACTIVE SUBSTANCES BY SURFACE-ENHANCED RAMAN SCATTERING

OCTOBER 8

SECTION 6. ANALYTICAL CHEMISTRY: NEW METHODS AND TOOLS FOR CHEMICAL RESEARCH AND ANALYSIS

6-038	Yarenkov N.R.	SERS-SENSORY SYSTEMS FOR THE DETERMINATION OF LOW- AND HIGH-MOLECULAR MARKERS OF NEUROTRANSMITTER METABOLISM
6-039	Vershinina Yu.S.	DEVELOPMENT OF APPROACHES TO DETERMINE THE TOTAL AMOUNT OF PROTEIN IN PLANT MATERIALS
6-040	Balin I.A.	DIGITAL METHODS IN THE STUDY OF POSSIBLE TRANSFORMATION PATHWAYS OF STRUCTURAL ANALOGUES OF TRIAZAVIRIN®
6-041	Svalova T.S.	NITROGENOUS HETEROCYCLES AS STRUCTURAL ELEMENTS OF THE RECEPTOR LAYER OF ELECTROCHEMICAL (BIO)SENSORS FOR ECO-, BIO- AND PHARMACEUTICAL MONITORING
6-042	Pleshakov V.M.	STABILIZATION OF ELECTROCHEMICAL LACTATE BIOSENSORS BASED ON CHITOSAN MEMBRANES
6-043	Nikolskii V.M.	MEMBRANE IONSELECTIVE ELECTRODES FOR THE ANALYSIS OF ANTIBIOTICS
6-044	Trubachev A.V.	SIMULTANEOUS VOLTAMMETRIC DETERMINATION OF Cu(II), Pb(II) and Cd(II) USING DMSO-CONTAINING BACKGROUND ELECTROLYTES
6-045	Nazyrov M.I.	DETERMINATION OF TRYPTOPHAN ENANTIOMERS USING A VOLTAMPEROMETRIC SENSOR BASED ON MOLECULARLY IMPRINTED POLY(3,4-ETHYLENEDIOXYTHIOPHENE)
6-046	Gafiatova I.A.	VOLTAMMETRIC DETERMINATION OF SULPHANAMIDES ON AN ELECTRODE MODIFIED BY COMPOSITE BASED ON GOLD PARTICLES, CARBON NANOTUBES AND IONIC LIQUID
6-047	Gedmina A.V.	SELECTIVE VOLTAMMETRIC DETERMINATION OF PURINE NUCLEOSIDES ON ELECTRODES MODIFIED BY COMPOSITES BASED ON POLY(3,4-ETHYLENEDIOXYOPHENE)
6-048	Dobrynina Yu.P.	AMPEROMETRIC DETERMINATION OF PYRUVIC ACID ON AN ELECTRODE MODIFIED BY COBALT-PALLADIUM BINARY SYSTEM IN BATCH INJECTION ANALYSIS
6-049	Gedmina A.V.	FLOW INJECTION AMPEROMETRIC DETERMINATION OF LACTULOSE ON THE ELECTRODE MODIFIED BY GOLD PARTICLES

OCTOBER 8

SECTION 6. ANALYTICAL CHEMISTRY: NEW METHODS AND TOOLS FOR
CHEMICAL RESEARCH AND ANALYSIS

6-050	Khairullina D.Yu.	VOLTAMMETRIC DETERMINATION OF CORTISOL AND VITAMIN C ON SCREEN PRINTED ELECTRODES MODIFIED BY GOLD PARTICLES
6-051	Gafiatova I.A.	SELECTIVE VOLTAMMETRIC DETERMINATION OF ASCORBIC ACID, PARACETAMOL AND PHENYLEPHRINE ON AN ELECTRODE MODIFIED BY RHODIUM AND IRIIDIUM OXIDES IN DRUGS

OCTOBER 8

SECTION 7. CATALYSIS IN SCIENCE AND INDUSTRY

7-001	Abarbanel N.V.	BIFUNCTIONAL CATALYSTS BASED ON TRANSITION METAL CHLORIDES AND IONIC LIQUIDS IN SILANE PRODUCTION
7-002	Alekseeva E.V.	INVESTIGATING THE RELATIONSHIP BETWEEN THE ACTIVITY OF METAL-FREE OXYGEN REDUCTION REACTION CATALYSTS AND THE STRUCTURE OF NITROGEN-CONTAINING DEFECTS CREATED THROUGH TARGETED ION BEAM IRRADIATION
7-003	Arkhipova D.M.	IDENTIFICATION OF MOLECULAR STRUCTURE OF PHOSPHONIUM SALTS FROM MICROCRYSTALLINE FILMS WITH DEEP LEARNING
7-004	Atlaskina M.E.	INFLUENCE OF PROCESS PARAMETERS ON THE CONVERSION OF CO ₂ INTO CYCLIC CARBONATES
7-005	Afanaseva A.V.	METATHESIS OF OLEFINS: DEVELOPMENT OF ORIGINAL CATALYSTS OF ETHENOLYSIS FOR RENEWABLE VEGETABLE FEEDSTOCK PROCESSING
7-006	Afonnikova S.D.	HYDROCARBONS PROCESSING ON MULTICOMPONENT C OFENI-M SYSTEMS (M= Pd, Cu) FOR PRODUCTION OF CARBON NANOMATERIALS
7-007	Akhmedyanova R.A.	SYNTHESIS OF HETEROGENEOUS MANGANESE-OXIDE CATALYSTS USING PHYSICAL INFLUENCES AND THEIR APPLICATION IN THE OXIDATION OF HYDROCARBONS
7-008	Bikbaeva V.R.	GRANULAR HIERARCHICAL ZEOLITES Y _h IN THE SYNTHESIS OF 3,5-XYLENOL BY ACETONE AROMATIZATION
7-009	Brazovskaya E.Yu.	DEVELOPMENT OF ALUMOSILICATE CATALYSTS FOR SELECTIVE SYNTHESIS OF HIGH-VALUE PRODUCTS FROM VEGETABLE RAW MATERIALS
7-010	Bodrov A.S.	AMMOXIDATION OF PROPYLENE IN A FLUIDIZED BED OF CATALYST
7-011	Vasyutin P.R.	MIXED LN-AL (LN = LA, CE, PR) OXIDES: SYNTHESIS, STRUCTURE AND CATALYTIC PROPERTIES IN OXIDATIVE COUPLING OF METHANE
7-012	Vlasova E.N.	HYDRODEOXYGENATION AND HYDROISOMERIZATION OF RAPESEED OIL OVER ZEOLITE-CONTAINING MoS ₂ CATALYSTS
7-013	Vorakso I.A.	CATALYTIC ISOTOPE EXCHANGE BETWEEN CARBON DIOXIDE AND WATER VAPOR

OCTOBER 8

SECTION 7. CATALYSIS IN SCIENCE AND INDUSTRY

7-014	Goncharova I.K.	[M]-/ORGANO-CATALYZED AEROBIC Si-H- AND C-H-FUNCTIONALIZATION AS THE GREEN WAY FOR THE PREPARATION OF FUNCTIONALIZED ORGANOSILICON COMPOUNDS
7-015	Grudova M.V.	GOLD AND COPPER COMPLEXES: COMPARISON OF TRANSFORMATIONS AND CATALYTIC ACTIVITY
7-016	Gyulakhmedov R.R.	SYNTHESIS AND STUDY OF PHOTOCATALYTIC ACTIVITY OF BISMUTH FERITE (BiFeO ₃) SUBSTITUTED BY BARIUM (Ba)
7-017	Islamov D.R.	CARBONIC ACIDS AS CATALYSTS OF REACTIONS OF PRIMARY AMINES WITH DIPHENYL CARBONATE
7-018	Kaichev V.V.	MECHANISM OF PROPANE DEHYDROGENATION ON CATALYSTS BASED ON VANADIUM OXIDE
7-019	Kapinos A.A.	MITIGATION OF CARBON DIOXIDE HYDROGENATION CONDITIONS BY NEW CATALYTIC SYSTEMS
7-020	Kiselev A.V.	DESIGN OF NEW ANSA-HETEROCENES WITH A LONG SIOSI BRIDGE AS A CATALYSTS FOR SELECTIVE DIMERISATION OF OCT-1-ENE
7-021	Klimaeva L.A.	ELECTROCATALYTIC HYDROGEN EVOLUTION REACTION REACTION IN THE PRESENCE OF HYDRO-DERIVATIVE SALTS OF ORTHO-BIPYRIDINE
7-022	Kovalevskii R.A.	SYMBIOSIS OF ASYMMETRIC ORGANOCATALYSIS AND OXIDATIVE FRAGMENTATION: NEW METHODOLOGY FOR CREATION OF OPTICALLY PURE DRUGS
7-023	Kovalenko E.N.	COMPARATIVE STUDY OF THE PROPERTIES OF MASSIVE AND ALUMINUM OXIDE SUPPORTED OXIDES Ce _{1-x} Ni _x O _y
7-024	Krasnikov D.V.	OPTIMISATION OF CATALYTIC GROWTH OF SINGLE LAYER CARBON NANOTUBES BY MACHINE LEARNING METHODS
7-025	Lakomkina A.R.	TETRAARYL-SUBSTITUTED PHOSPHACYANO FERROCENES AS LIGANDS FOR THE DESIGN OF REDOX-SWITCHABLE CATALYSTS
7-026	Losev M.A.	REDUCTIVE COUPLING OF NITROARENES WITH CARBOXYLIC ACIDS – A DIRECT ROUTE TO AMIDE SYNTHESIS
7-027	Magomedova A.G.	INVESTIGATION OF ELECTROCHEMICALLY SYNTHESISED HEMATITE IN HETEROGENEOUS PHOTO-FENTON PROCESS

OCTOBER 8

SECTION 8. POLYMERS AND POLYMERIC MATERIALS (INCLUDING 2ND INTERNATIONAL SYMPOSIUM "MODERN TRENDS IN DENDRIMER CHEMISTRY AND APPLICATIONS")

8-001	Aksenova N.A.	POLYSACCHARIDES AS POSSIBLE CARRIERS FOR PHOTOSENSITISERS IN ANTIBACTERIAL PHOTODYNAMIC THERAPY
8-002	Alekseeva L.A.	INVESTIGATION OF THE INFLUENCE OF SPACER'S TYPE ON THE PHYSICAL AND CHEMICAL PROPERTIES OF POLYCARBORANESILOXANES
8-003	Alykova E.A.	SYNTHESIS OF OPTICALLY TRANSPARENT (CO)POLYIMIDES WITH IMPROVED DIELECTRIC PROPERTIES BASED ON ALICYCL DIAMINES
8-004	Anokhin E.V.	SYNTHESIS AND PROPERTIES OF POLY(L-LACTIDE-SO-E-CAPROLACTONE) FOR BIOMEDICAL APPLICATION
8-005	Antipova K.G.	MECHANICAL PROPERTIES OF COMPOSITE HYDROGEL MATERIALS BASED ON POLYACRYLAMIDE REINFORCED WITH CHITIN NANOCRYSTALS
8-006	Apryatina K.V.	HIGHLY EFFECTIVE BACTERICIDAL COMPOSITIONS BASED ON CHITOSAN WITH SILVER NANOPARTICLES
8-007	Ardabevskaya S.N.	SYNTHESIS AND PROPERTIES OF HYBRID DENDRIMERS COMPOSED OF CARBOSILANE CORE AND AROMATIC SHELL, OBTAINED BY THE SZAATS REACTION
8-008	Atamanova A.A.	SYNTHESIS OF POLY(D,L-LACTIDE-CO-GLYCOLIDE) 50/50 WITH PREDETERMINED MOLECULAR STRUCTURE
8-009	Akhmedyanova R.A.	ON THE CATALYTIC HYDROGENATION OF POLYMERS
8-010	Bazyleva K.Yu.	FREEZING PROCESS OF POLYMER SOLUTIONS FOR THE CREATION MATERIALS WITH A SPECIFIED MORPHOLOGY
8-011	Bakanov K.K.	OBTAINING POLYDIMETHYLSILOXANES WITH URETHANE FRAGMENTS IN THE MAIN POLYMER CHAIN BY THE CuAAC REACTION FOR 3D PRINTING
8-012	Bakirova I.N.	THE INFLUENCE OF RIGID BLOCK STRUCTURE ON THE CHARACTERISTICS OF ESTER-TYPE URETHANE THERMOPLASTS

OCTOBER 8

SECTION 8. POLYMERS AND POLYMERIC MATERIALS (INCLUDING 2ND INTERNATIONAL SYMPOSIUM "MODERN TRENDS IN DENDRIMER CHEMISTRY AND APPLICATIONS")

-
- 8-013 **Baltacheva S.A.** AROMATIC AMINOPOLYOL SYNTHESIS AND POLYURETHANE PAINT COATING BASED ON IT
-
- 8-014 **Barysheva A.V.** PREPARATION OF SILICON OXYNITRIDE FILMS FROM INORGANIC POLYSILAZANE FOR ENCAPSULATION OF FLEXIBLE SOLAR CELLS
-
- 8-015 **Bashkova E.V.** SYNTHESIS AND INVESTIGATION OF PROPERTIES LADDER POLYPHENYLSILSESQUIOXANES OF VARIOUS MOLECULAR WEIGHTS OBTAINED IN AN AMMONIA MEDIUM
-
- 8-016 **Belova A.S.** DESIGN OF NEW MATERIALS WITH ADJUSTABLE FLUORESCENT PROPERTIES BASED ON SILOXANES OF DIFFERENT ARCHITECTURE AND ORGANIC FLUOROPHORES
-
- 8-017 **Belousov S.I.** FABRICATION SILICON CARBIDE FIBERS FROM A NEW TYPE OF PRECURSORS
-
- 8-018 **Bogolitsyn K.G.** PHYSICOCHEMICAL AND BIOACTIVE PROPERTIES OF THE ARCTIC BROWN ALGAE PHLOROTANNINS
-
- 8-019 **Bondarenko M.A.** IODINE-SUBSTITUTED AROMATIC CARBOXYLATES OF Cu(II) AND Zn(II): SYNTHESIS, STRUCTURE AND PROPERTIES
-
- 8-020 **Borisova D.M.** POLYHYDROXYL SILSESQUIOXANES. SYNTHESIS AND APPLICATION FOR SURFACE MODIFICATION OF DIFFERENT MATERIALS
-
- 8-021 **Bochkarev E.S.** PHOTOPOLYMERIZING COMPOSITION FOR 3D PRINTING MODIFIED WITH CHROMIUM ACRYLATE
-
- 8-022 **Buglakov A.I.** SELF-ASSEMBLY OF FIBRILLAR GELS IN SOLUTIONS OF AMPHIPHILIC COMB-LIKE MACROMOLECULES
-
- 8-023 **Vasileva E.D.** STUDY OF INTERACTION OF EPOXY RESIN ED-20 WITH 1,2,3-BENZOTRIAZOLE BY NMR SPECTROSCOPY
-
- 8-024 **Vorontsov N.V.** THE EFFECTS OF LOW-TEMPERATURE THERMAL OXIDATION OF ISOTACTIC POLYPROPYLENE, POLYAMIDE 6-66-4 AND BLENDS BASED ON THEM
-
- 8-025 **Gapankova E.I.** POLYMERIC MATRICES IN PREPREGS FOR PLASTIC SKI PRODUCTION
-

OCTOBER 8

SECTION 8. POLYMERS AND POLYMERIC MATERIALS (INCLUDING 2ND INTERNATIONAL SYMPOSIUM "MODERN TRENDS IN DENDRIMER CHEMISTRY AND APPLICATIONS")

8-026	Garkushina I.S.	SYNTHESIS OF POLYMERIC SORBENTS IMPRINTED WITH KANAMYCIN USING NON-COVALENT MOLECULAR IMPRINTING WITH SELF-ASSEMBLY APPROACH
8-027	Gerk S.A.	CYTOTOXIC EVALUATION OF COMPOSITE MATERIALS HYDROXYAPATHITE – HYALURONIC ACID
8-028	Glebova I.B.	ORGANOSILICATE HEAT-RESISTANT AND WATER-RESISTANT ELECTROSTATIC COATINGS ON THE BASIS OF ORGANOSILOXANES OF LADDER STRUCTURE
8-029	Gerk S.A.	CYTOTOXIC EVALUATION OF COMPOSITE MATERIALS HYDROXYAPATHITE – HYALURONIC ACID
8-030	Davletbaeva I.M.	MICROPOROUS BLOCK COPOLYMERS AS ANALYTICAL SENSORS FOR HEAVY METAL IONS
8-031	Davletbaeva I.M.	MICROPOROUS BLOCK COPOLYMERS AS ANALYTICAL SENSORS FOR HEAVY METAL IONS
8-032	Danilov N.S.	SYNTHESIS, PROPERTIES AND APPLICATION OF COLD-CURED URETHANE ELASTOMERS
8-033	Dichenskov V.V.	SYNTHESIS OF 2,2'-DITHIODIETHANOL AT ATMOSPHERIC PRESSURE
8-034	Dmitrenko M.E.	NOVEL PERVAPORATION MIXED MATRIX CHITOSAN MEMBRANES FOR ENHANCED DEHYDRATION
8-035	Dubashinskaya N.V.	ELECTROSPUN HYBRID MATRICES BASED ON CHITOSAN, CERIUM OXIDE, AND HALLOYSITE FOR BIOENGINEERING APPLICATIONS
8-036	Zhvanskaya E.S.	SYNTHESIS AND PROPERTIES OF NANOGELS BASED ON POLY-N-ISOPROPYLACRYLAMIDE FOR APPLICATION IN REDOX FLOW BATTERIES
8-037	Zabolotnykh S.A.	POLYMER SORBENTS FOR RARE EARTH METALS EXTRACTION
8-038	Zaguzin A.S.	METAL-ORGANIC COORDINATION POLYMERS BASED ON IODO-SUBSTITUTED CARBOXYLATES: SYNTHESIS, STRUCTURE AND PROPERTIES

OCTOBER 8

SECTION 8. POLYMERS AND POLYMERIC MATERIALS (INCLUDING 2ND
INTERNATIONAL SYMPOSIUM
"MODERN TRENDS IN DENDRIMER CHEMISTRY AND APPLICATIONS")

-
- 8-039 **Miroshnichenko D.V.** MODELLING OF MEMBRANE PROCESS OF CO₂ CAPTURE FROM FLUE GASES IN THE PRESENCE OF WATER VAPOUR
-
- 8-040 **Panov Yu.T.** DOUBLE ARYLATION" IN AlCl₃-PROMOTED TRANSFORMATION OF VINYL(DIPHENYLPHOSPHORYL)ALLENES IN BENZENE AND MESITYLENE
-
- 8-041 **Penkova A.V.** INFLUENCE OF BULK AND SURFACE MODIFICATIONS ON PROPERTIES OF NONPOROUS POLYMERIC MEMBRANES FROM BIOPOLYMERS
-

OCTOBER 8

SECTION 9. CHEMICAL EDUCATION

9-001	Bogacheva A.G.	METHODOLOGY AND EQUIPMENT OF CHEMICAL-ECOLOGICAL PRACTICUM IN SCHOOL EDUCATION WITH APPLICATION OF CHEMICAL-ECOLOGICAL LABORATORY FROM THE GROUP OF 'KRISMAS' COMPANIES
9-002	Gorbunova O.E.	LEVELS OF DIDACTIC PRINCIPLE OF ACCESSIBILITY IN CHEMISTRY TEACHING: ANALYSES AND RECOMMENDATIONS
9-003	Zhilin D.M.	THE SENSE OF SUBSTANCE
9-004	Krestyannikova E.V.	PROPAEDEUTIC CHEMICAL EDUCATION: EXPERIENCE OF THE PHYSICS AND MATHEMATICS SCHOOL OF THE TYUMEN REGION
9-005	Petkov V.I.	INTERDISCIPLINARY INTEGRATION IN TEACHING A FOREIGN LANGUAGE TO CHEMISTRY STUDENTS
9-006	Lobanov A.V.	COMMON DIDACTICAL PRINCIPLES FOR CONSTRUCTION OF THE CONTENT OF EDUCATIONAL DISCIPLINES BOTANY AND INORGANIC CHEMISTRY
9-007	Lyubashov P.S.	GREEN CHEMISTRY IN EDUCATIONAL PROGRAMS OF HIGHER EDUCATION INSTITUTIONS
9-008	Lyapishev K.M.	ORGANIZATION OF CHEMISTRY OLYMPIC TRAINING IN CHEMIS ON THE EXAMPLE OF THE CLUB FOR GIFTED CHILDREN MATRITSA"
9-009	Mannanov T.A.	DEVELOPMENT OF AN EDUCATIONAL PLATFORM FOR THE MENTORSHIP IN THE SYSTEM OF TRAINING SCHOOL STUDENTS FOR CHEMISTRY OLYMPIADS
9-010	Maskolyunas E.N.	THE DEVELOPMENT OF PEDAGOGICAL IDEA OF THE CONTINUOUS EDUCATION BY D.I. MENDELEEV WITHIN THE MODERN EDUCATIONAL SPACE IN THE ACADEMY OF TALENTS ST. PETERSBURG
9-011	Myalkin I.V.	A NEW APPROACH TO CHEMISTRY LESSONS FOR AN IN-DEPTH STUDY OF METALLURGICAL PRODUCTION ON THE EXAMPLE OF THE CITY DISTRICT OF VYKSA CITY OF THE NIZHNY NOVGOROD REGION
9-012	Myasoedova T.G.	DIGITAL TECHNOLOGIES IN EDUCATION: POSSIBILITIES AND LIMITATIONS

OCTOBER 8

12. 11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

12-001	Adilova S.S.	ELECTRODEPOSITION OF NICKEL-BASED HIGH-ENERGY COMPOSITE COATINGS WITH DIFFERENT KINDS OF FILLERS
12-002	Adilova S.S.	INITIAL STAGES OF SILVER ELECTRODEPOSITION FROM ETHALINE ON SINGLE CRYSTAL AND POLYCRYSTALLINE PLATINUM ELECTRODES
12-003	Antipov S.V.	STRUCTURE AND LOCAL ION DYNAMICS OF TIF ₄ IN ALKALI FLUORIDE MELTS
12-004	Khein T.A.	INFLUENCE OF INDUSTRIAL FLOTOREAGENTS ON THE ELECTROFLOTATION PROCESS OF EXTRACTING A MIXTURE OF NON-FERROUS AND HEAVY METALS FROM WASTEWATER
12-005	Berestov V. V.	SUPERCAPACITOR ELECTRODE MATERIALS OBTAINED BY MICROWAVE CARBONIZATION OF COTTON WASTE
12-006	Borozdin A.V.	DENSITY OF CHLORALUMINATE IONIC LIQUID ON THE BASIS OF TRIETHYLAMINE HYDROCHLORIDE
12-007	Burashnikova M.M.	ELECTROCHEMICAL AND STRUCTURAL CHARACTERISTICS OF THE NEGATIVE ELECTRODE OF A LEAD-ACID BATTERY WITH CARBON ADDITIVES
12-008	Veselov S.V.	DEVELOPMENT OF AN ELECTROCHEMICAL METHOD FOR SEPARATING ^{99m} Tc FROM A MOLYBDENUM TARGET IN THE PROCESS OF OBTAINING RADIOPHARMACEUTICALS
12-009	Vinogradov K.Yu.	CATALYTIC ACTIVITY IN CARBON MATERIALS DOPED WITH TRANSITION METAL PHTHALOCYANINES
12-010	Vitkovskii V.V.	MECHANICAL PROPERTIES OF POROUS FILMS OF ANODIC ALUMINIUM OXIDE OBTAINED IN PHOSPHORIC ACID
12-011	Volgin V.M.	SIMULATION OF ELECTROCHEMICAL MACHINING OF CYLINDRICAL HOLE BY PARTIALLY INSULATED ECCENTRIC CATHODE
12-012	Volgin V.M.	SIMULATION OF ELECTROCHEMICAL MACHINING OF CYLINDRICAL HOLE BY PARTIALLY INSULATED ECCENTRIC CATHODE
12-013	Voronin I.A.	APPLICATION OF INVERSION VOLTAMMETRY FOR ANALYSIS OF LEAD-BISMUTH ELECTROLYTIC PRECIPITATES

OCTOBER 8

12. 11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

-
- 12-014 **Gainullin R.R.** ELECTROCHEMICAL OXYGEN REDUCTION REACTION CATALYZED BY THE MANGANESE COMPLEXES OF SODIUM PECTATE: STRUCTURAL AND MORPHOLOGICAL ASPECTS
-
- 12-015 **Gifer P.K.** ELECTROPORATION OF LIPID MEMBRANES: A NEW PERSPECTIVE
-
- 12-016 **Gordeev E.V.** TRANSPORT CHARACTERISTICS OF ELECTROCHEMICAL MATERIALS (La,Sr)(Fe,Ga)O_{3-δ} FOR SYMMETRICAL ELECTROCHEMICAL DEVICES
-
- 12-017 **Gordeeva M.A.** ELECTROTRANSPORT CHARACTERISTICS OF ELECTRODE MATERIALS BASED ON NICKEL-DOPED PRASEODYMIUM-BARIUM FERRITE
-
- 12-018 **Gridchin S.N.** FORMATION AND CATHODIC REDUCTION OF ZINC, NICKEL(II) AND COBALT(II) COMPLEXES IN SOLUTIONS OF TAURINE
-
- 12-019 **Grushevskaya S.N.** ESTIMATION OF ELECTRONIC PARAMETERS OF Ag(I) OXIDE FROM THE IMPEDANCE METRY OF Ag-Pd SYSTEM ALLOYS
-
- 12-020 **Davidenko N.K.** TEMPLATNOE ELECTRODEPOSITION OF ARRAYS OF FREE STANDING GOLD NANORODS FOR PHOTONICS APPLICATIONS
-
- 12-021 **Denieva Z.G.** MEMBRANE ACTIVITY OF THE HUMAN IMMUNODEFICIENCY VIRUS GAG POLYPROTEIN
-
- 12-022 **Enova Yu.A.** THE INHIBITORY PROPERTIES OF THE BOILING EXTRACTS FROM DIFFERENT PLANTS ON THE CORROSION OF STEEL EN Fe37-3FN IN ACIDIC ENVIRONMENTS
-
- 12-023 **Zader P.A.** TIME EVOLUTION OF THE SULFURIC ACID CHLORATE ELECTROLYTE COMPOSITION DURING REDUCTIVE ELECTROLYSIS
-
- 12-024 **Zasypkina A.A.** INFLUENCE OF S-MODIFICATION OF CARBON CARRIER ON DEGRADATION STABILITY OF CATALYSTS FOR FUEL CELLS WITH SOLID POLYMER ELECTROLYTE
-

OCTOBER 8

12. 11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

12-025	Zilberg R.A.	CHIRAL SENSOR BASED ON NANO-SIZED MFI ZEOLITE FOR RECOGNITION AND DETERMINATION OF TRYPTOPHAN ENANTIOMERS
12-026	Zykova D.D	EFFECT OF SIDE GROUPS ON CATIONIC PHTHALOCYANINE COMPLEXES WITH ZINC ATOM ON THEIR ADSORPTION AND INITIATION OF BLM CONDUCTIVITY
12-027	Inozemtseva A.I.	ELECTROCHEMICAL PROPERTIES OF REDOX-ACTIVE POLYMERS AND NANOGELS AND FOR REDOX FLOW BATTERY APPLICATIONS
12-028	Istakova O.I.	PREPARATION OF COBALT POLYPORPHINE FILMS WITH DIFFERENT DEGREE OF MACROCHAIN CROSSLINKING BY ELECTROCHEMICAL METHOD
12-029	Istakova O.I.	HYDROGEN-CHLORATE CURRENT GENERATOR CELL WITH SULPHURIC ACID ELECTROLYTE
12-030	Kabanova V.A.	ELECTRODEPOSITION OF COMPOSITE OF POLY-3,4-ETHYLENEDIOXYTHIOPHENE WITH FULLERENOL
12-031	Kazarinov I.A.	MODELLING OF WASTEWATER TREATMENT PROCESS CONTAINING ORGANIC SUBSTANCES BY USING MICROBIAL FUEL CELLS
12-032	Kalnin A.Yu.	INFLUENCE OF ELECTROLYTE COMPOSITION ON ELECTROCATALYTIC PROPERTIES OF NITROXYL-CONTAINING CONDUCTIVE POLYMER
12-033	Kozaderov O.A.	EFFECT OF pH ON THE DESALINATION EFFICIENCY OF AMMONIUM NITRATE SOLUTION DURING ELECTRODIALYSIS
12-034	Ivoilova A.V.	COMPREHENSIVE STUDYING OF THE POSSIBLE ELECTROCONVERSIONS MECHANISMS OF TRIAZAVIRIN®'S STRUCTURAL ANALOGUES - NITROTRIAZOLOTRIAZINES. VOLTAMMETRIC DETERMINATION OF SOME PROMISING MOLECULES
12-035	Kondratev V.V.	SYNTHESIS AND ELECTROCHEMICAL PROPERTIES OF VANADIUM OXIDE DOPED WITH ALUMINUM IONS AS CATHODES FOR AQUEOUS METAL-ION BATTERIES

OCTOBER 8

12. 11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

12-036 **Kubanova M.S.** ELECTROCHEMICAL PERFORMANCE OF Al₂O₃

12-037 **Stenina E.V.** THE ROLE OF SURFACE-ACTIVE ANIONS IN THE ADSORPTION
OF SUPRAMOLECULAR CATIONIC COMPLEXES OF
CUCURBITURILS

OCTOBER 8

14. SYMPOSIUM F-BLOCK ELEMENTS RECENT ADVANCES AND CHALLENGES

- 14-001 **Belova M.M.** EXTRACTION OF ACTINIDES AND RARE EARTH ELEMENTS IN CARBONATE MEDIA WITH METHYLTRIOCTYLAMMONIUM CARBONATE IN 3-NITROBENZOTRIFLUORIDE
- 14-002 **Betina A.A.** BIOLOGICAL POTENTIAL OF $\text{NaGd}_{0.7}\text{Eu}_{0.3}\text{F}_4$ AND $\text{KGd}_{0.8}\text{Eu}_{0.2}\text{F}_4$ NANOPARTICLES COATED BY APTMS
- 14-003 **Bobrovskaya K.S.** EFFECT OF YTTERBIUM CONCENTRATION ON LUTETIUM EXTRACTION BY 2-ETHYLHEXYL-PHOSPHONIC ACID MONO(2-ETHYLHEXYL) ESTER
- 14-004 **Bolotko A.E.** DIRECTED DESIGN OF BRIGHTLY LUMINESCENT MIXED-CARBOXYLATE BENZOATE-PENTAFLUOROBENZOATE LANTHANIDE COMPLEXES
- 14-005 **Gerasimov M.A.** HYDROPHOBIC ANIONS AS MODIFIERS OF EXTRACTION SYSTEMS FOR SEPARATION OF An(III) AND Ln(III) BASED ON N,O-DONOR LIGANDS
- 14-006 **Gogolev I.A.** CATIONIC BIS(ALKOXIDE) DYSPROSIUM (III) COMPLEXES: SYNTHESIS AND STRUCTURES
- 14-007 **Degtyareva S. S.** COMPOUNDS OF SUBSTITUTED TRIAZACYCLOHEXANE COMPLEXES OF LANTHANIDES WITH ANTENNA LIGANDS
- 14-008 **Fominykh A.Yu.** SOLVENT EXTRACTION OF URANIUM(VI) WITH TETRAALKYLDIPHOSPHONIUM SALTS
- 14-009 **Ivanova A.A.** NEW MIXED-METAL EUROPIUM AND TERBIUM COMPLEXES WITH A TRIFLUORINE(β -DIKETONATE) LIGAND
- 14-010 **Kazanina D.A.** EXTRACTION OF F-ELEMENTS BY TETRA-(2-ETHYLHEXYL) DIAMIDE OF DIGLYCOLIC ACID IN FLUORINATED DILUENTS
- 14-011 **Khvorostinin E.Y.** SEPARATION OF AMERICIUM FROM CURIUM AND LANTHANIDES USING POTASSIUM HEXACYANOFERRATE (III)
- 14-012 **Konopkina E.A.** KINETICS OF SOLVENT EXTRACTION OF Am(III)/Eu(III) PAIR BY N,O-DONOR PHENANTHROLINE LIGANDS

OCTOBER 8

14. SYMPOSIUM F-BLOCK ELEMENTS RECENT ADVANCES AND CHALLENGES

-
- 14-013 **Lopatin D.A.** SORBENTS WITH SYNERGISTIC INTERACTION OF MATRIX
WITH LIGANDS FOR SEPARATION OF *f*-ELEMENTS
-
- 14-014 **Mikhaltsova I.A.** A NOVEL APPROACH FOR SYNTHESIZING NITRIDES OF
LANTHANIDES AND ACTINIDES AT LOW TEMPERATURES
-
- 14-015 **Pikalov D.O.** NOVEL GLASS MATERIALS IN THE ZNNBOF5-BAF2-ERF3
SYSTEM
-
- 14-016 **Prichisly K.S.** NEW NANOCRISTALLINE PHOSPHORS MYF₄: Eu³⁺, M = K, Rb, Cs
-
- 14-017 **Shikin D.D.** EFFECTS OF NATURE OF SUBSTITUENT ON STRUCTURE
AND LUMINESCENT PROPERTIES OF LANTHANIDE
ACYLPYRAZOLONATES
-
- 14-018 **Gutorova S.V.** U(VI) COORDINATION BY POLYDENTATE N,O-DONOR LIGANDS
-

OCTOBER 8

16. SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

16-001	Eravcı Ayşenur	ADSORPTION OF STRONTIUM AND CESIUM IONS FROM AQUEOUS SOLUTIONS USING ZEOLITE SAMPLES
16-002	Karimi-Sabet J.	HOW DOES GREEN CHEMISTRY PLAY A ROLE IN THE FIELD OF NUCLEAR FUELCYCLE? A REVIEW
16-003	Andryushchenko N.D.	EVALUATION OF DISTRIBUTION COEFFICIENTS FROM DATA OF SORPTION AND DIFFUSION EXPERIMENTS
16-004	Arkhipova M.A.	CARBOHYDRAZIDE BEHAVIOR PATTERNS IN ELECTROCHEMICAL PROCESSES OF SNF REPROCESSING TECHNOLOGY
16-005	Baimukhanova A.E.	DEVELOPMENT AND EVALUATION OF ALTERNATIVE SCHEMES OF GENERATOR OPERATING BASED ON ION EXCHANGE IN CARBOXYLIC ACID MEDIA
16-006	Basova A.A.	CERAMIC MATRICES BASED ON BENTONITE CLAY FOR IMMOBILIZATION OF RADIOACTIVE WASTE FROM REPROCESSING OF SPENT NUCLEAR FUEL OF MOLTEN SALT REACTORS
16-007	Belova E.V.	INFLUENCE OF REGENERATION METHOD ON THE LOWER TEMPERATURE LIMIT OF FLAME PROPAGATION OF IRRADIATED EXTRACTION MIXTURE
16-008	Belova K.Yu	QUALITY INDICATORS OF MAGNESIUM POTASSIUM PHOSPHATE COMPOUND FOR SOLIDIFICATION OF NPP NITRATE EVAPORATOR BOTTOMS
16-009	Belokonova N.V.	USE OF T-3K SORBENT TO CONCENTRATE Sr-90 IN RADIOACTIVE WASTE MANAGEMENT
16-010	Bodrov.A.Yu.	VALIDATION OF A CHROMATOGRAPHIC MODEL FOR THE SEPARATION OF ACTINIDES FROM PRODUCTS OF NUCLEAR REACTIONS INDUCED BY HEAVY IONS
16-011	Bomchuk A.Yu.	COMPARISON OF SORPTION BEHAVIOR OF URANIUM AND AMERICIUM ON POLYMINERAL AND BENTONITE CLAYS
16-012	Bondareva L.G.	SECONDARY RADIOACTIVE CONTAMINATION OF A FRESH WATER ECOSYSTEM: MODEL EXPERIMENTS
16-013	Bukin A.N.	PHASE ISOTOPIC EXCHANGE AS A METHOD FOR TRITIUM REMOVAL AND CONTROL

OCTOBER 8

16. SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

16-014	Bunyaev V.A.	TRITIUM PROBE AND SUPERCOMPUTER SIMULATION OF STRUCTURE OF COMPLEXES AND INTERACTIONS BETWEEN CARBON NANOTUBES, CHITOSAN AND ALBUMIN
16-015	Vasiliev A.N.	DEVELOPMENT OF SHORT-LIVED ALPHA-EMITTER ^{226}Th GENERATOR FOR TREATMENT OF EPITHELIAL AND EASILY ACCESSIBLE TUMORS
16-016	Volgin M. I.	CHEMICAL RESISTANCE OF METAL PHASE SIMULANTS PRESENT IN IRRADIATED NUCLEAR FUEL TOWARDS OXIDATION IN AIR AND NITRIC ACID
16-017	Volkov I.N.	INFLUENCE OF Fe (II) ON Se (IV) IMMOBILIZATION IN NATURAL CLAY MATERIALS
16-018	Volkova A.G.	FEATURES OF THE C-14 AND Cl-36 LEACHING PROCESS FROM IRRADIATED GRAPHITE
16-019	Gerber E.A.	KINETICS OF PLUTONIUM REDUCTION BY CARBOHYDRAZIDE AND DIFORMYLHYDRAZINE IN THE PERCHLORIC ACID
16-020	Guseva A.I.	NEW MOLYBDATE COMPLEXES OF Np(VI) AND Pu(VI).
16-021	Guseva A.I.	NEW CHROMATE COMPLEXES OF Np(VI) AND Pu(VI).
16-022	Dzikaya A.S.	STUDY OF ^{137}Cs , ^{85}Sr , ^{60}Co RADIONUCLIDES ADSORPTION AND IMMOBILIZATION BY (Ca, Mg)-Zr PHOSPHATES
16-023	Egorova T.B.	PLUTONIUM BEHAVIOR UNDER CONDITIONS OF DEEP STRATUM OF LIQUID RADIOACTIVE WASTE DISPOSAL SITE
16-024	Ekatova T.Y.	SORPTION OF ACTINIDES AND NUCLEAR FISSION PRODUCTS BY NANOSIZED NEEDLE COKE
16-025	Eliseenko E.A.	ESTABLISHMENT OF THE DEPENDENCE OF THE SORPTION OF URANIUM AND THORIUM FROM LIQUID MEDIA ON THE CHARACTERISTICS OF THE SYNTHESIS OF COMPOSITE MATERIALS BASED ON 4-AMINOFURAZANE-3 CARBOXYAMIDOXIME
16-026	Zharkova V.O.	APPLICATION OF VERMICULITE AND ZEOLITE ADDITIVES TO IMPROVE THE SORPTION PROPERTIES OF BENTONITE CLAY
16-027	Zaruba-Venhlinskaya K.	^{137}Cs , ^{85}Sr , AND ^{60}Co SORPTION KINETICS ON MODIFIED OIL SHALE SORBENTS FROM LRW MODEL SOLUTIONS

OCTOBER 8

16. SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

-
- 16-028 **Zotina T. A.** RETROSPECTIVE ESTIMATION OF THE POTENTIAL MOBILITY OF ARTIFICIAL RADIONUCLIDES (^{60}CO , ^{137}CS , ^{152}EU , ^{154}EU , ^{241}AM , ^{238}PU , $^{239,240}\text{PU}$) IN BOTTOM SEDIMENTS OF THE YENISEI RIVER (SIBERIA, RUSSIA)
-
- 16-029 **Ikonnikova I.S.** BINDING OF LEAD CATIONS BY POLYAMINES CONTAINING AMIDE SUBSTITUENTS
-
- 16-030 **Nechaev P.I.** APPROACHES TO HANDLING IRRADIATED REACTOR ZIRCONIUM MATERIALS USING THE EXAMPLE OF IRRADIATED FUEL CHANNELS OF RBMK REACTORS
-

OCTOBER 8

19. SYMPOSIUM ON MEDICINAL CHEMISTRY

19-001	Aleksandrova Yu.I.	BIOCOMPATIBLE NANOSYSTEMS BASED ON SULPHO-DERIVATIVES OF PILLAR5ARENE AND ANTITUMOR DRUGS OF PROTEIN AND PEPTIDE NATURE: SYNTHESIS AND SUPRAMOLECULAR SELF-ASSEMBLY
19-002	Alto A.B.	SYNTHESIS OF 1,2,4-OXADIAZOLE DERIVATIVES USING 1-ACYLPYRIDINIUM SALTS PREPARED IN SITU
19-003	Antonets A.A.	ANTIPROLIFERATIVE AND ANTIOXIDANT ACTIVITY OF RUTHENIUM AND PLATINUM COMPOUNDS WITH PHENOSANIC ACID BASED LIGANDS
19-004	Akhmadiev N.S.	DRUG DESIGN OF NOVEL LOW-MOLECULAR BINUCLEAR CU-CONTAINING SULFANYL AZAHETEROCYCLES
19-005	Beloglazkina D.V.	BISPIDINE-BASED LIGANDS AS POTENTIAL AGENTS FOR TUMOR DIAGNOSTICS
19-006	Belousov S.I.	PRINCIPLES OF CREATION OF TRIBOLOGICAL POLYMER COMPOSITIONS WITH QUASI-CRYSTALLINE FILLER FOR USE AS MATERIALS FOR MEDICAL PURPOSE
19-007	Boiko S.A.	PHARMACOKINETIC STUDY OF PREDNISOLONE PHOSPHATE'S LIPOSOMAL FORMS
19-008	Borodina M.O.	DEVELOPMENT OF IMPORT-SUBSTITUTING TECHNOLOGIES FOR THE SYNTHESIS OF ORPHAN DRUGS. CHALLENGES AND PROSPECTS
19-009	Bortnevskaya Yu.S.	TARGETED CONJUGATES BASED ON MESO-ARYLPORPHYRINS AND TYROSINE KINASE INHIBITOR FOR ANTITUMOR FDT
19-010	Vaskina N.F.	NUCLEOPHILIC POST-FUNCTIONALIZATION IN THE SYNTHESIS OF ARYLTHIOFLUORINATED IMIDAZOLES
19-011	Tutubalina E.V.	CHEMICAL KNOWLEDGE OF LARGE LANGUAGE MODELS IN THE MOLECULE DESCRIPTION GENERATION TASK
19-012	Gimazova A.R.	SEARCHING FOR BIOLOGICALLY ACTIVE MOLECULES IN CHEMICAL SPACE GENERATED BY THE SUZUKI REACTION
19-013	Golovanova O.A.	COMPLEXES OF CALCIUM (II) IONS WITH AMINO ACIDS: STRUCTURE, STRUCTURE AND STABILITY

OCTOBER 8

19. SYMPOSIUM ON MEDICINAL CHEMISTRY

19-014	Golubeva A.V.	MULTIDESCRIPTOR NEURAL NETWORK MODEL OF DEPENDENCE WITH ACTIVITY AGAINST <i>S. AUREUS</i> OF CHEMICAL COMPOUNDS STRUCTURE
19-015	Golubeva Yu.A.	COPPER(II) COMPLEXES BASED ON TETRAZOLE AND 1,10-PHENANTHROLINE / 2,2'-BIPYRIDINE DERIVATIVES: SYNTHESIS, IN VITRO AND IN VIVO TOXICITY ASSESSMENT
19-016	Gonchar M.R.	COMPLEXES OF GOLD, RUTHENIUM AND IRIIDIUM WITH GLUCOSE-BASED BICYCLOPHOSPHITE LIGANDS AS PROMISING ANTITUMOR AGENTS
19-017	Gorbunova E.A.	ARYLOXYSUBSTITUTED PHTHALOCYANINES: SYNTHESIS, SOLUBILIZATION, PHOTOCHEMICAL PROPERTIES
19-018	Grigorev V.A.	NEURAL NETWORKS ON GRAPHS FOR PREDICTION OF LIPOPHILITY OF COMPOUNDS
19-019	Doroshenko I.A.	DEVELOPMENT OF SYNTHETIC RECEPTORS BASED ON CARBOCYANINES WITH IONOGENIC GROUPS FOR SELECTIVE BINDING AND DETERMINATION OF LOW MOLECULAR WEIGHT ORGANIC COMPOUNDS
19-020	Druzina A.A.	SYNTHESIS OF NEW BORON-CONTAINING BIOLOGICALLY ACTIVE COMPOUNDS FOR BORON NEUTRON CAPTURE THERAPY FOR CANCER
19-021	Ermakova E.A.	SEARCH FOR CYTOTOXIC AGENTS AMONG MIXED-LIGAND COPPER(II) COMPLEXES WITH FERROCENE AND 1,10-PHENANTHROLINE / 2,2'-BIPYRIDINE DERIVATIVES
19-022	Ermakova E.A.	SEARCH FOR CYTOTOXIC AGENTS AMONG MIXED-LIGAND COPPER(II) COMPLEXES WITH FERROCENE AND 1,10-PHENANTHROLINE / 2,2'-BIPYRIDINE DERIVATIVES
19-023	Ermolenko Yu.V.	MICELLAR FORMS OF OLEYLHIALURON FOR THE DESIGN OF NANOSCALE THERANOSTICS
19-024	Zhirkova A.M.	SYNTHESIS OF ⁵⁷ Fe-LABELED IRON HYDROXIDE COMPLEXES WITH HUMIC SUBSTANCES FOR PRECLINICAL STUDY
19-025	Zefirova O.N.	CAPABILITIES OF MOLECULAR MODELING DURING THE DESIGN OF NEW ANTIVIRAL AGENTS

OCTOBER 8

19. SYMPOSIUM ON MEDICINAL CHEMISTRY

19-026	Zykova S.I.	ANALYSIS OF THE COMPOSITION OF FATTY ACIDS OF BIOLOGICALLY ACTIVE ADDITIVES
19-027	Kinzhalov M.A.	METAL-(ACYCLIC DIAMINOCARBENE) COMPLEXES DEMONSTRATE NANOMOLAR ANTIPROLIFERATIVE ACTIVITY AGAINST TRIPLE-NEGATIVE BREAST CANCER
19-028	Koshenskova K.A.	FORMATION OF PHARMACOLOGICALLY ACTIVE COPPER(II) AND COBALT(II) COMPLEXES
19-029	Ladin E.D.	A NEW APPROACH TO SUBSTITUTED (2,2'-BI)PYRIDINES BASED ON THE REACTION BETWEEN 2-AMINOXAZOLES AND 1,2,4-TRIAZINES
19-030	Lider E.V.	MIXED LIGAND ESSENTIAL METALS COMPLEXES AS PROMISING CANDIDATES FOR ANTI-TUMOR THERAPY
19-031	Litvinov S.D.	NANOMETRIC CYTOACTIVE MATERIAL "LITAR" AND TISSUE REGENERATION
19-032	Losev T.V.	QUANTUM MECHANICAL-CLUSTER APPROACH TO SOLVE THE BIOISOSTERIC REPLACEMENT PROBLEM IN DRUG DESIGN
19-033	Mazina L.M.	EFFECT OF NITROSYL IRON COMPLEXES ON THERAPEUTIC TARGETS OF CARDIOVASCULAR DISEASES
19-034	Minakov D.A.	CONJUGATES OF AZOBENZENES WITH NATURAL CHLORINS AS PROTOTYPES OF LIGHT-CONTROLLED ANTICANCER AND ANTIBACTERIAL DRUGS WITH ANESTHETIC ACTIVITY
19-035	Moralev A.D.	DEVELOPMENT OF LOW MOLECULAR P-GLYCOPROTEIN INHIBITORS BASED ON 18- β -GLYCYRRHETIC ACID DERIVATIVES.
19-036	Musina E.I.	SYNERGETIC EFFECT OF SILVER COMPLEXES WITH ARSINE LIGANDS ON THEIR BIOLOGICAL ACTIVITY
19-037	Neganova M.E.	SYNTHESIS OF POLYFLUORINATED 1-BENZYLISATINS FOR CREATION OF ANTICANCER AGENTS
19-038	Nelyubina A.A.	SYNTHESIS OF NOVEL IODINE-CONTAINING AZOLOAZINE DERIVATIVES IN THE DESIGN OF ANTIVIRAL AGENTS

OCTOBER 8

19. SYMPOSIUM ON MEDICINAL CHEMISTRY

19-039 **Nikitin E.A.**

RADIOPROTECTORS BASED ON PYRIDINECARBOXYLIC
ACIDS WITH A FRAGMENT OF STERICALLY HINDERED
PHENOLS

19-040 **Ryabov A.A.**

SYNTHESIS OF NEW ANTIBACTERIAL ORGANIC
COMPOUNDS DERIVED FROM RENEWABLE BIOMASS

OCTOBER 8

20. SYMPOSIUM ON THE HISTORY OF CHEMISTRY

20-001	Almyasheva O.V.	DOUBLE ARYLATION" IN $AlCl_3$ -PROMOTED TRANSFORMATION OF VINYL(DIPHENYLPHOSPHORYL) ALLENES IN BENZENE AND MESITYLENE
20-002	Bazhin V.Yu.	D.I. MENDELEEV AND MINING INSTITUTE
20-003	Vashurin A.S.	SOLUTIONS CHEMISTRY AT THE IPI-ISUCT INORGANIC CHEMISTRY DEPARTMENT
20-004	Malygin A.A.	THE ROLE OF V.B. ALESKOVSKII"S "FRAMEWORK" HYPOTHESIS IN THE DEVELOPMENT OF SOLID STATE CHEMISTRY

OCTOBER 8

23. СИМПОЗИУМ SYMPOSIUM "GLASS AND CERAMICS"

23-001	Barabanov N.M.	THE RELATIONSHIP BETWEEN THE STRUCTURE AND PROPERTIES OF THE GLASSES OF THE SYSTEM Na ₂ O-BaO-B ₂ O ₃
23-002	Murashko A.M.	CERAMIC MATERIALS IN Ca ₃ (PO ₄) ₂ -Ca _{2.5} Na(PO ₄) ₂ SYSTEM FOR APPLICATION IN TISSUE ENGINEERING
23-003	Rassolova Yu.R.	BIORESORBABLE CERAMICS BASED ON MAGNESIUM PHOSPHATES OBTAINED BY AEROSOL PYROLYSIS METHOD
23-004	Ulyanova A.V.	INFLUENCE OF SINTERING ADDITIVE ON DENSITY OF SAMPLES BASED ON MAGNESIUM ALUMINATE SPINEL
23-005	Tsyganova T.A.	CESIUM-CONTAINING HIGH-SILICA GLASSES
23-006	Yurev I.O.	THE TECHNOLOGY OF SmS CERAMICS PRODUCTION, Sm ₂ S ₃ -SmS-Sm ₂ O ₂ S SYSTEM
23-007	Yakimanskii A.V.	"DOUBLE ARYLATION" IN AlCl ₃ -PROMOTED TRANSFORMATION OF VINYL(DIPHENYLPHOSPHORYL)ALLENES IN BENZENE AND MESITYLENE

OCTOBER 9

SECTION 1	
Fundamental bases of chemical science	206
SECTION 2	
Chemistry and technology of materials	211
SECTION 4	
Resource saving, environmental safety and chemical-technological processes in circular economy	219
SECTION 6	
Analytical chemistry: new methods and tools for chemical research and analysis	223
SECTION 7	
Catalysis in science and industry	228
SECTION 8	
Polymers and polymeric materials (including 2nd International Symposium “Modern Trends in Dendrimer Chemistry and Applications”)	230
SECTION 9	
Chemical education	233
SYMPOSIA	
12. 11 th International Frumkin symposium on electrochemistry	234
15. Macrocyclic compounds – new perspective molecular materials for science, techniques, technology, and medicine (applications)	237
16. Symposium on nuclear chemistry (BRICS+)	240
17. Russian-Chinese symposium on selective technologies for separation of substances with similar properties	243
19. Symposium on medicinal chemistry	244

OCTOBER 9

SECTION 1. FUNDAMENTAL BASES OF CHEMICAL SCIENCE

-
- 1-051 **Zalaltdinova A.V.** SYNTHESIS OF NEW HYDRAZONES BASED ON PHOSPHANEOFLAVONOIDS AND FUNCTIONALLY SUBSTITUTED CAG PHOSPHONATES OF UNSYMMETRICAL TYPE
-
- 1-052 **Zdorovenko I.P.** SYNTHESIS OF BIS(AZA-18-CROWN-6) DIENONE OF CYCLOPENTANONE SERIES, SUPRAMOLECULAR COMPLEXES BASED ON IT
-
- 1-053 **Zubarev R.A.** MONOISOTOPIC BIOPOLYMERS EXHIBIT FASTER CHEMISTRY
-
- 1-054 **Kazakova A.V.** THE LATTICE EFFECTS ON THE SUPRAMOLECULAR STRUCTURE AND MAGNETIC PROPERTIES OF THE BICOMPONENT $[Mn^{III}(5-Hal-sal^{2,3,2,3})]_2[ReIVCl_6]$ COMPLEXES
-
- 1-055 **Kartseva M.E.** SYNTHESIS AND OPTICAL PROPERTIES OF PLASMONIC CORE/SHELL/FLUOROPHORE NANOSTRUCTURES WITH CONTROLLED EMISSION
-
- 1-056 **Kireenko M.M.** THE EFFECT OF ELECTRON IRRADIATION ON THE INITIATION OF THE RELAXATION PROCESSES IN ALUMINUM HYDRIDE CRYSTALS
-
- 1-057 **Kolesnikov A.E.** EXPLORING THE IMPACT OF CONCENTRATION AND EXPOSURE TIME ON CYTOTOXIC ACTIVITY OF IMIDAZOLIUM IONIC LIQUIDS
-
- 1-058 **Kolker A.M.** PREDICTING CARBON DIOXIDE CAPTURE BY DEEP EUTECTIC SOLVENTS
-
- 1-059 **Kolotova U.A.** PROSPECTS OF APPLICATION OF HALOCHROMIC DISAZO DERIVATIVES OF 6N-INDOLO[2,3-B]QUINOXALINES IN MEDICAL DIAGNOSTICS
-
- 1-060 **Konstantinova E.I.** ELECTRON TRANSPORT AND THERMOELECTRIC PROPERTIES IN (Pb,Ho)-MODIFIED MANGANITES WITH PEROVSKITE-TYPE STRUCTURE
-
- 1-061 **Konshin V.V.** PRACTICAL SYNTHESIS 1-(3-(TRIMETHOXY-SILYL) PROPYL)AZOLES
-

OCTOBER 9

SECTION 1. FUNDAMENTAL BASES OF CHEMICAL SCIENCE

1-062	Konshin V.V.	PRACTICAL SYNTHESIS 1-(3-(TRIMETHOXSILYL) PROPYL)AZOLES
1-063	Konkova E.S.	PALLADIUM CARBOXYLATE COMPLEXES CONTAINING BENZOIC ACIDS ANIONS
1-064	Konkova E.S.	PALLADIUM CARBOXYLATE COMPLEXES CONTAINING BENZOIC ACIDS ANIONS
1-065	Kostin G.A.	PHOTOCHEMISTRY OF NEW RUTHENIUM NITROSYLS WITH TRANS NO-RU-F COORDINATE
1-066	Kotova Yu.O.	DEVELOPMENT OF CURCUMIN-LOADED PLGA NANOPARTICLES USING FACTORIAL DESIGN OF EXPERIMENT
1-067	Kocharyan G.G.	ELECTROCHEMICAL INVESTIGATION ON INTERACTION OF ANTIOXIDANT FLAVONOIDS WITH DNA
1-068	Kochergina A.R.	FEATURES OF FORMATION OF 2+1 CARBONYL-DIKETONATE COMPLEXES OF TECHNETIUM (I)
1-069	Krylov I.B.	ELECTRON-DEFICIENT N-OXYL RADICALS IN ORGANIC SYNTHESIS
1-070	Kryazh V.V.	NEW METHODS FOR DIRECT FUNCTIONALIZATION OF THE TETRAZINE CORE
1-071	Kudryashova E.A.	SYNTHESIS AND PHOTOPHYSICAL PROPERTIES OF AZOMETHINES BASED ON 4-ARYL-2,2'-BIPYRIDINE-6-CARBALDEHYDES
1-072	Kuznetsova A.A.	SYNTHESIS OF TRIARYLPHOSPHINES FROM ARYL FLUORIDES AND RED PHOSPHORUS: DFT STUDY
1-073	Kuprikova E.M.	SYNTHESIS OF GALLIC ACID DERIVATIVE
1-074	Lagunova V.I.	СИНТЕЗ И ИССЛЕДОВАНИЕ ТЕРМИЧЕСКИХ СВОЙСТВ ДВОЙНЫХ КОМПЛЕКСНЫХ СОЛЕЙ $M(NH_3)_5ClCu(C_2O_4)_2 \cdot 2H_2O$ И $M(NH_3)_6Cu(C_2O_4)_2 \cdot 3 \cdot 6H_2O$ ($M = Rh, Ir$)

OCTOBER 9

SECTION 1. FUNDAMENTAL BASES OF CHEMICAL SCIENCE

1-075	Lopanol A.N.	RELATIVISTIC CORRECTIONS THEORY OF HYDROGEN-LIKE SYSTEMS AS THE BASIS FOR CONSTRUCTION FINAL VARIANT PERIODIC SYSTEM D.I. MENDELEEV OF CHEMICAL ELEMENTS
1-076	Magsumov T.I.	THERMODYNAMICS OF CAVITY FORMATION IN INDIVIDUAL AND MIXED LIQUIDS
1-077	Malmakova A.E.	CREATION OF NEW FLUORINE-CONTAINING AMINOPHOSPHONATES WITH MULTIFUNCTIONAL ACTION
1-078	Mankaev B.N.	GROUP 13 METAL COMPLEXES AS INITIATORS OF POLYMERIZATION OF CYCLIC ESTERS
1-079	Medvedev M.G.	THE ROLES OF ARTIFICIAL INTELLIGENCE IN CHEMICAL RESEARCH
1-080	Mezentsev I.A.	PARAMETRIZATION OF ELECTROSTATIC INTERACTIONS IN MOLECULAR MECHANICS BASED ON ELECTRON DENSITY DESCRIPTORS
1-081	Merkulova M.V.	STRUCTURE OF NIKEL-DIAMOND COATING OBTAINED FROM A VIBRATION-LIQUEFIED ELECTROLYTE-SUSPENSION
1-082	Mironov V.A.	SIMULATION OF MANGANESE(III) INTERACTIONS IN THE BINUCLEAR OXO-CARBOXYLATE STRUCTURAL FRAGMENTS
1-083	Misikov G.Kh.	THERMODYNAMIC AND KINETIC PERCULIARITIES FO THE ESTERIFICATION REACTION: THE ETHYL ACETATE SYNTHESIS REACTION
1-084	Mikhailenko M.V.	STUDY OF MAGNETIC PROPERTIES OF Fe(II)- AND Co(II)-CONTAINING HEXAAZATRIPHENYLENE-BASED COMPLEXES WITH VARIOUS CHARGE STATES OF A CENTRAL LIGAND AND DIFFERENT AMOUNT OF COORDINATED METAL ATOMS
1-085	Mikhailov O.A.	REACTIONS OF 1,2,3-TRIAZOLIC ALDEHYDES WITH DIIZOPROPYL ZINC AND ALLYLBORANES

OCTOBER 9

SECTION 1. FUNDAMENTAL BASES OF CHEMICAL SCIENCE

-
- 1-086 **Moseev T.D.** DIRECT C-H FUNCTIONALIZATION OF AZAHETEROCYCLES AS A GREEN" METHOD FOR THE SYNTHESIS OF PROMISING PHYSIOLOGICALLY ACTIVE COMPOUNDS AND FUNCTIONAL MATERIALS
-
- 1-087 **Mostovaya A.S.** FEATURES OF SILVER(I) COMPLEXATION WITH BENZIMIDAZOLE DERIVATIVES OF VARIOUS MODIFICATIONS IN THE PRESENCE OF BORON CLUSTER ANIONS $[B_nH_n]^{2-}$ ($n = 10, 12$)
-
- 1-088 **Moshkina T.N.** DONOR- π -ACCEPTOR STRUCTURES BASED ON 2-ARYLQUINAZOLINE OR 5-ARYL1,2,4TRIAZOLOQUINAZOLINE
-
- 1-089 **Mukanov A.R.** GRAPH NEURAL NETWORKS BASED HIGH-YIELD REACTIONS SEARCH WITH TRANSFER AND ACTIVE LEARNING
-
- 1-090 **Mukhamedyarova A.R.** SYNTHESIS OF 1,2,3,4-TETRAHYDROPYRIDINES AND HEXAHYDROIMIDAZO[1,2-A]PYRIDINES IN AQUEOUS SOLUTIONS OF ELECTROLYTES
-
- 1-091 **Mukhin K.A.** POLYTHERMAL STUDY OF THE LITHIUM ACETATE - CESIUM ACETATE - WATER TERNARY SYSTEM
-
- 1-092 **Nemytov A.I.** SYNTHESIS AND PHOTOPHYSICAL PROPERTIES NEW ORGANOBORON LUMINOPHORES
-
- 1-093 **Nenashev A.S.** MIXED YLIDES BASED ON CYCLIC PHOSPHINES AS AN EFFICIENT PLATFORM FOR THE SYNTHESIS OF PHOSPHORUS-CONTAINING HETEROCYCLIC SYSTEMS
-
- 1-094 **Nesterova A.I.** SYNTHESIS, CRYSTAL STRUCTURE AND LUMINESCENT PROPERTIES OF METAL-ORGANIC COORDINATION POLYMERS BASED ON 4-BROMOISOPHTHALIC ACID AND BIS(IMIDAZOL-1-YL)METHANE
-
- 1-095 **Nikiforova M.E.** CHEMICAL ASSEMBLY OF 1S- AND 1S-3D COORDINATION POLYMERS WITH 3,5-DINITRO-2-PYRIDONATE ANIONS
-
- 1-096 **Osinkin D.A.** IRON DOPED HIGH CONDUCTIVE ELECTROLITE $La_{0.8}Sr_{0.2}Ga_{0.8}Mg_{0.2}O_{3-\delta}$ FOR FUEL CELLS: OXYGEN EXCHANGE KINETICS
-

OCTOBER 9

SECTION 1. FUNDAMENTAL BASES OF CHEMICAL SCIENCE

1-097	Osipov A.V.	CRYSTAL STRUCTURE, LUMINESCENT AND ADSORPTION PROPERTIES OF METAL-ORGANIC COORDINATION POLYMERS BASED ON 1-(AZOLYL)-1,2,3-TRIAZOLE-4-CARBOXYLIC ACIDS
1-098	Osipov N.G.	COORDINATION COMPOUNDS OF CoII and FeIII WITH PHOTOCROMIC SPIROPYRANS

OCTOBER 9

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

-
- 2-097 **Kipper A.I.** NANOCOMPLEXES OF ANTHRACYCLINE ANTIBIOTICS DAUNOMYCIN AND DOXORUBICIN WITH SELENIUM NANOPARTICLES AND POLYVINYL PYRROLIDONE
-
- 2-098 **Kipper A.I.** NANOCOMPLEXES OF ANTHRACYCLINE ANTIBIOTICS DAUNOMYCIN AND DOXORUBICIN WITH SELENIUM NANOPARTICLES AND POLYVINYL PYRROLIDONE
-
- 2-099 **Kitushina E.V.** SPECTRAL PROPERTIES OF CHLORINATED TIN PORPHYRINATE IMMOBILISED ON SILVER NANOPARTICLES
-
- 2-100 **Kitushina E.V.** SPECTRAL PROPERTIES OF HYBRID COMPLEXES BASED ON HEXAMOLYBDENUM AMMONIUM TETRAPYRROLES AND HEXAMOLYBDENOMETALLATES
-
- 2-101 **Klimenko I.V.** PHOTOCHEMICAL PROPERTIES OF HYBRID STRUCTURES BASED ON PORPHYRINS AND HETEROPOLYCOMPOUNDS
-
- 2-102 **Klimenko I.V.** PHOTOCHEMICAL PROPERTIES OF HYBRID STRUCTURES BASED ON PORPHYRINS AND HETEROPOLYCOMPOUNDS
-
- 2-103 **Klyuev A.O.** SILICON CARBIDE CORE FIBERS
-
- 2-104 **Knyazyuk T.V.** FEATURES OF THE STRUCTURE FORMATION OF CORROSION-RESISTANT STEELS OF CHROMIUM-NICKEL ALLOY COMPOSITION IN ADDITIVE MANUFACTURING
-
- 2-105 **Kovalev I.A.** CHANGING THERMOELECTRIC EFFECTS IN THE PROCESS OF NITRIDIZATION OF THE METAL PAIR Zr-V
-
- 2-106 **Kovalev I.A.** CHANGING THERMOELECTRIC EFFECTS IN THE PROCESS OF NITRIDIZATION OF THE METAL PAIR Zr-V
-
- 2-107 **Kovalev I.S.** DEVELOPMENT OF METHODS FOR MECHANOSYNTHESIS OF POLYAZOMETHINES BASED ON BIS-ARYL-SUBSTITUTED PODANDS
-
- 2-108 **Kovalenko A.S.** DEVELOPMENT OF PHOTOCATALYTICALLY ACTIVE COMPOSITE NANOPOWDERS $\text{TiO}_2\text{-Fe@SiO}_2$
-

OCTOBER 9

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

-
- 2-109 **Kovalenko L.Yu.** STRUCTURE AND PHYSICOCHEMICAL PROPERTIES OF SOLID INORGANIC ACIDS CONTAINING Sb(+5) AND Nb(+5)
-
- 2-110 **Kovrizhina A.R.** STUDY OF STEREOCHEMISTRY OF OXYMIC BOND OF TRIPTANTRIN-6-OXYME
-
- 2-111 **Koliev I.A.** PREPARATION AND PROPERTIES OF HYDROGENATED BUTADIENE-NITRILE RUBBER
-
- 2-112 **Kolosov V.N.** SYNTHESIS OF MOLYBDENUM CARBIDE NANOPOWDERS USING ACETONE AND HEXANE AS A CARBON SOURCE
-
- 2-113 **Kolchugin A.A.** KINETICS OF PROCESSES ON ELECTRODES BASED ON LANTHANUM NICKELITES DOPED WITH CALCIUM. REASONS FOR LONG-TERM STABILITY AND DEGRADATION OVER TIME.
-
- 2-114 **Korneeva N.V.** CREATING ULTRA-LIGHT WEIGHT COMPOSITE MATERIALS
-
- 2-115 **Korobeinikov N.A.** POLYHALOGENIDE COMPLEXES OF THE COMPOSITION $Catn\{M_xCl_y\{Im\}\}$: SYNTHESIS, STRUCTURE AND PROPERTIES
-
- 2-116 **Korobeinikova E.V.** IMPACT OF THERMAL HEATING ON THE CORROSION-ELECTROCHEMICAL PROPERTIES OF NEW STEEL VNS-53M
-
- 2-117 **Koroleva M.S.** S-DOPED Zn-SUBSTITUTED BISMUTH NIOBATES: SYNTHESIS, OPTICAL AND DIELECTRIC PROPERTIES OF PYROCHLORES
-
- 2-118 **Korosteleva E.R.** SCREEN-PRINTED ELECTRODES MODIFIED WITH POLY(AMINOPHENYLBORONIC ACID) FOR LACTATE DETECTION
-
- 2-119 **Kropacheva O.I.** PREPARATION OF METAL-CONTAINING COMPOSITES BASED ON THERMALLY EXPANDED GRAPHITE USING A BLOCK COPOLYMER IN AQUEOUS ORGANIC MEDIA
-
- 2-120 **Krokhalev A.V.** OBTAINING MATERIALS OF "TI-FE" SYSTEM WITH INCREASED HYDROGEN CAPACITY BY EXPLOSIVE PRESSING AND SUBSEQUENT SINTERING OF MIXTURES OF TITANIUM AND IRON POWDERS
-

OCTOBER 9

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

2-121	Krokhicheva P.A.	APPROACHES TO CONSTRUCTION OF INJECTED CALCIUM-MAGNESIUM PHOSPHATE CEMENT MATERIALS FOR VERTEBROPLASTICS
2-122	Krupanova D.A.	PHOTOANODES BASED ON TiO ₂ NANOTUBE ARRAYS FOR FLEXIBLE SOLAR CELLS
2-123	Krylov A.A.	SYNTHESIS, ATTESTATION AND CONDUCTIVITY OF BIMEVOX-BASED COMPLEXLY SUBSTITUTED COMPOUNDS
2-124	Kuznetsov S.V.	NEW TYPE OF DIAMOND COMPOSITES WITH LUMINESCENT AND MAGNETIC PROPERTIES BASED ON PARTICLES EMBEDDED IN DIAMOND
2-125	Kuznetsova P.D.	BIO-INSPIRED SYNTHESIS OF ZINC SULFIDE NANOPARTICLES
2-126	Kulikova T.V.	HIGH ENTROPY EQUIATOMIC ALLOY CoCrFeNi: SYNTHESIS, STRUCTURE AND PROPERTIES
2-127	Kurganova E.A.	DEVELOPMENT OF A METHOD FOR PRODUCING PHENOL AND ITS ALKYL DERIVATIVES TOGETHER WITH ALIPHATIC AND ALICYCLIC KETONES
2-128	Kurguzkina M.E.	POROUS NANOSTRUCTURED MATERIALS BASED ON NICKEL HYDROSILICATE NANOSCROLLS
2-129	Kutzhанov M.K.	HIGH STRENGTH AL/AL ₂ O ₃ COMPOSITES PROCESSED BY A COMBINATION OF POWDER METALLURGY METHODS
2-130	Kutlugildina G.G.	OXIDIZED FRACTIONS OF APPLE PECTIN AND THEIR INTERACTION WITH 4- AND 5-AMINOSALICYLIC ACIDS
2-131	Kutumov S.P.	FUNCTIONAL ORGANOSILICONE LIGANDS AND SYNTHESIS OF METAL-ORGANIC FRAMEWORKS BASED ON THEM
2-132	Kucheryaev K.A.	A NEW APPROACH TO THE TREATMENT OF EARLY DENTAL CARIES BY CREATING BIODEGRADABLE PLATES WITH ACTIVE COMPONENTS

OCTOBER 9

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

-
- 2-133 **Kushtaev A.A.** 1,1-DIAMINO-2,2-DINITROETHENE AND ITS DERIVATIVES ARE USEFUL SYNTHONES FOR PREPARATION OF HETEROCYCLIC SYSTEMS CONTAINING A DINITROMETHYL GROUP
-
- 2-134 **Lavrinchenko I.A.** AN EFFECTIVE METHOD FOR SYNTHESIS OF N(2)-ARYL-1,2,3-TRIAZOL-4-CARBOXYLATES
-
- 2-135 **Lappi T.I.** PHOTOELECTRODES BASED ON CLUSTER COMPLEXES
-
- 2-136 **Larionov R.A.** THERMAL AND SUPRAMOLECULAR PROPERTIES OF OLIGOPEPTIDES
-
- 2-137 **Latyshevich I.A.** BIOCIDAL PROPERTIES OF PREPREGS BASED ON TERPENOID RAW MATERIALS
-
- 2-138 **Lembikov A.O.** LOW-ALLOY HIGH-SPEED STEEL BASED ON COMPOSITE MATERIAL IN IRON MATRIX DISPERSION-HARDENED WITH NANO- AND MICRO-ENTROPY CERAMICS
-
- 2-139 **Leontev N.V.** BIOCERAMICS OF COMPLEX CHEMICAL COMPOSITION BASED ON STABILIZED GLASERITE-LIKE PHASES
-
- 2-140 **Lipovka A.A.** LASER ENGINEERING OF MXENES ON FLEXIBLE SUBSTRATES
-
- 2-141 **Lomakin M.S.** MAGNETIC PROPERTIES OF MATERIALS BASED ON PYROCHLORE-STRUCTURED COMPOUNDS OF VARIABLE COMPOSITION IN THE Bi_2O_3 Fe_2O_3 W_3O_3 SYSTEM
-
- 2-142 **Lukin P.M.** CYANE ESTERS OF PHENOLS AND HEAT RESISTANT HIGH STRENGTH PLASTICS
-
- 2-143 **Lukoshkova A.A.** STUDYING THE COORDINATING ABILITY OF PERHALOGENATED ANION $\text{B}_9\text{Cl}_{12}^-$
-
- 2-144 **Luchinin N.D.** HIGH CAPACITY ALLOYING ANODE MATERIALS FOR SODIUM-ION BATTERIES
-
- 2-145 **Lyasnikov K.O.** ELECTROCHEMICAL SYNTHESIS OF TRANSITION METAL ALCOXIDES
-

OCTOBER 9

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

-
- 2-146 **Mazurin M.O.** FORMATION THERMODYNAMICS OF PEROVSKITE-LIKE LEAD HALIDE SOLID SOLUTIONS
-
- 2-147 **Maierova A.V.** AMORPHOUS ALLOY SYSTEM Sc-Gd-Co-Al
-
- 2-148 **Maksimova V.V.** INTERFACIAL SYNTHESIS, CHARACTERIZATION AND ANALYTICAL APPLICATION OF FUNCTIONALIZED MAGNETIC NANOPARTICLES
-
- 2-149 **Maksumova A.M.** ATOMIC LAYER DEPOSITION OF ALUMINUM-MOLYBDENUM OXIDE FILMS: WATER AND WATERLESS PROCESSES
-
- 2-150 **Malinina E.A.** INCREASING THE HYDROPHILICITY OF N-ACYL-SUBSTITUTED AMINO ACID ESTERS DUE TO COMPLEXATION WITH BIOMETALS FOR THE CREATION OF ANTIVIRAL DRUGS
-
- 2-151 **Malyshkin D.A.** DEFECT CHEMISTRY AND THERMODYNAMICS OF MIXED CONDUCTING PEROVSKITE-TYPE OXIDES $\text{SrTi}_{1-x}\text{Fe}_x\text{O}_{3-\delta}$
-
- 2-152 **Mantsireva V.A.** COMPLEX COMPOUNDS OF LANTHANIDES WITH CROWN ETHERS BASED ON BORON CLUSTER ANIONS
-
- 2-153 **Markelov V.I.** EFFECT OF TELLURIUM ON THE CORROSION OF STRUCTURAL MATERIALS HASTELLOY B-3 AND VDM ALLOY 59 IN FLINAK-BASED MELTS
-
- 2-154 **Markin N.S.** THE EFFECT OF SYNTHESIS CONDITIONS ON THE MORPHOLOGY AND STRUCTURE OF SAMARIUM-BASED NANOMATERIALS
-
- 2-155 **Markov A.N.** INDUCTION FLOW LEVITATION AS A NEW APPROACH FOR OBTAINING HIGH-PURITY MONODISPERSE NANOPARTICLES OF MONOMETALLIC SYSTEMS, CORE-SHELL STRUCTURES, INTERMETALLIC COMPOUNDS AND THEIR APPLICATION
-
- 2-156 **Matveeva V.G.** SYNTHESIS AND FUNCTIONALIZATION OF CHITOSAN-CONTAINING MAGNETIC NANOPARTICLES FOR ENZYME IMMOBILIZATION
-

OCTOBER 9

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

-
- 2-157 **Mateishina Yu.G.** TRANSPORT PROPERTIES OF COMPOSITES BASED ON ALKALI METAL NITRITES AND HETEROGENEOUS ADDITIVES (NANODIAMONDS, MgO, Al₂O₃)
-
- 2-158 **Matyushin N.O.** SYNTHESIS AND PHOTOPHYSICAL PROPERTIES OF PENTAFLUOROPHENYLATED 5-THIENYL-2H-IMIDAZOLES
-
- 2-159 **Makhaneva A.Yu.** NOVEL PHOSPHIDE-PLATINIDES WITH COMPLEX ARCHITECTURES IN Eu-Pt-Cu-P AND Ca-Pt-Cu-P SYSTEMS
-
- 2-160 **Milagina S.V.** DEVELOPMENT OF NEW APPROACHES TO THE SYNTHESIS OF DIMERIC POLYCATIONIC AMPHIPHILES WITH A REDOX-SENSITIVE GROUP
-
- 2-161 **Milenkovich T.** STUDY OF SURFACE CHARACTERISTICS OF THIN FILMS FORMED ON THE BASIS OF COLLOIDAL QUANTUM DOTS OF MERCURY CHALCOGENIDES DEPENDING ON FILM FORMATION PARAMETERS
-
- 2-162 **Mozharov Ya.M.** GAS SENSITIVE MATERIALS BASED ON SEMICONDUCTOR NANOCRYSTALLINE INDIUM AND BISMUTH VANADATES
-
- 2-163 **Monastyrskii D.I.** SYNTHESIS OF LUMINESCENT DYES FROM PHOSPHOGYPSUM
-
- 2-164 **Morozova P.A.** A STUDY OF THE TRANSITION METALS REDOX ACTIVITY IN PRUSSIAN BLUE ANALOGS AS CATHODE MATERIALS FOR POTASSIUM-ION BATTERIES
-
- 2-165 **Moseev T.D.** SYNTHESIS and PHOTOPHYSICAL PROPERTIES OF LUMINOPHORES BASED on ortho-CARBORANE
-
- 2-166 **Mosidze A.V.** DETERMINATION OF FUNDAMENTAL PARAMETERS OF MULTICOMPONENT SYSTEMS – PARTIAL DIFFUSION COEFFICIENTS OF COMPONENTS – USING DARKEN'S EQUATIONS
-
- 2-167 **Mosidze A.V.** DETERMINATION OF FUNDAMENTAL PARAMETERS OF MULTICOMPONENT SYSTEMS – PARTIAL DIFFUSION COEFFICIENTS OF COMPONENTS – USING DARKEN'S EQUATIONS
-

OCTOBER 9

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

2-168	Motovilo T.A.	LIGNOCELLULOSE BIOMASS AS A SOURCE OF HARD CARBON FOR METAL-ION BATTERIES
2-169	Mudruk N.V.	USE OF MINERAL RAW MATERIALS FROM THE ARCTIC ZONE OF THE RUSSIAN FEDERATION FOR SYNTHESIS OF HIGHLY EFFECTIVE PHOSPHATE SORBENTS
2-170	Myshletsov I.I.	COORDINATION COMPOUNDS OF BIOMETALS AS PRECURSORS FOR OBTAINING SUBSTANCES AND MATERIALS WITH SPECIFIED PROPERTIES
2-171	Myachina M.A.	ADSORPTION OF POLYOXOMETALATE COMPLEXES MO AND W ON SURFACES OF DIFFERENT NATURE
2-172	Nakisko E.Yu.	SYNTHESIS OF SELF-DISPERSING MOLYBDENUM-VANADIUM BLUE XEROGELS OF VARIOUS COMPOSITIONS
2-173	Narzulloev U.U.	GROWTH OF NANOWHISKERS ON THE SURFACE OF OXIDISED AL AND THEIR INFLUENCE ON THE STRENGTHENING OF AL-MATRIX COMPOSITE
2-174	Kokoshkina O.V.	#Н/Д
2-175	Nikiforova G.E.	PRASEODYMIUM MAGNESIUM HEXAALUMINATE: SYNTHESIS AND THERMOPHYSICAL PROPERTIES
2-176	Nikiforova G.E.	FERRITE-BASED MATERIALS FOR FUTURE TECHNOLOGIES
2-177	Nikolskaya A.B.	PHOTOVOLTAIC-DRIVEN ELECTROCHEMICAL WATER SPLITTING SYSTEMS FOR GREEN HYDROGEN PRODUCTION
2-178	Novikov E.V.	ANTI-CORROSIVE ZIRCONIUM OXIDE COATINGS PRODUCED BY THE SOL-GEL METHOD
2-179	Novoselova K.N.	SYNTHESIS OF NANODISPERSED HAFNIUM DIOXIDE SOLS AND ANALYSIS OF PEROXIDASE-LIKE ACTIVITY
2-180	Obraztsova E.A.	ISOLATION AND PHYSICO-CHEMICAL PROPERTIES OF LOADED EXTRACELLULAR VESICLES

OCTOBER 9

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

2-181	Obraztsova E.A.	ISOLATION AND PHYSICO-CHEMICAL PROPERTIES OF LOADED EXTRACELLULAR VESICLES
2-182	Obraztsova E.A.	ISOLATION AND PHYSICO-CHEMICAL PROPERTIES OF LOADED EXTRACELLULAR VESICLES
2-183	Ogarkov A.I.	DEVELOPMENT OF THE FUNDAMENTAL BASIS OF A NEW TECHNOLOGICAL PROCESS FOR SYNTHESIS OF NITRIDE CERAMICS BASED ON Zr-Nb SOLID SOLUTION
2-184	Ogarkov A.I.	DEVELOPMENT OF THE FUNDAMENTAL BASIS OF A NEW TECHNOLOGICAL PROCESS FOR SYNTHESIS OF NITRIDE CERAMICS BASED ON Zr-Nb SOLID SOLUTION
2-185	Okunev M.A.	DEVELOPMENT OF NEW COMPOSITE MATERIAL: CARBOPYROCERAM-NIOBIUM-NIOBIUM PENTAOXIDE
2-186	Olkhovich M.V.	SOLUBILITY INCREASING OF CARDIOVASCULAR DRUG TELMISARTAN USING BIOPOLYMERS
2-187	Orbant R.A.	FORMATION OF COMPOSITES WITH ZrB ₂ -SiC MATRICES THROUGH INTERMEDIATE PRECERAMIC PREPREGS
2-188	Samoilova O.V.	CORROSION RESISTANCE OF HIGH-ENTROPY ALLOYS BASED ON IRON SUB-GROUP METALS, DOPED WITH REFRACTORY METALS

OCTOBER 9

SECTION 4. RESOURCE SAVING, ENVIRONMENTAL SAFETY AND CHEMICAL-TECHNOLOGICAL PROCESSES IN CIRCULAR ECONOMY

4-001	Agafonov S.N.	ASSESSMENT OF TECHNOLOGICAL EFFICIENCY OF JOINT CARBOTHERMAL REDUCTION OF ILMENITE AND PEROVSKITE CONCENTRATES
4-002	Agafonov S.N.	ASSESSMENT OF TECHNOLOGICAL EFFICIENCY OF JOINT CARBOTHERMAL REDUCTION OF ILMENITE AND PEROVSKITE CONCENTRATES
4-003	Aksenov V.V.	RESOURCE-SAVING TECHNOLOGY FOR PRODUCTION AND APPLICATION OF GRAIN MOLASSES IN THE RATIONS OF PRODUCTIVE ANIMALS
4-004	Aleshin D.S.	ENVIRONMENTAL ASPECTS OF PROCESSING OF MOLYBDENUM SULFIDE CONCENTRATES
4-005	Arefeva O.D.	OBTAINING MICRO- AND MESOPOROUS ALUMINOSILICATES IN THE PRESENCE OF POLYETHYLENGLYCOL
4-006	Artemev A.I.	SIMULATION OF SUPERCRITICAL FLUID EXTRACTION TECHNOLOGY FOR THE EXTRACTION OF VALUABLE COMPONENTS FROM PLANT RAW MATERIALS
4-007	Atlaskin A.A.	HYBRID ENERGY-EFFICIENT METHOD - MEMBRANE-ASSISTED GAS ABSORPTION FOR THE REMOVAL AND CAPTURE OF ACID GASES
4-008	Atlaskin A.A.	HYBRID ENERGY-EFFICIENT METHOD - MEMBRANE-ASSISTED GAS ABSORPTION FOR THE REMOVAL AND CAPTURE OF ACID GASES
4-009	Bagaveev A.M.	INFLUENCE OF ANTIOXIDANTS ON OXIDATION RESISTANCE OF RAPESEED OIL OF HIGH-VOLTAGE ELECTRICAL EQUIPMENT
4-010	Bagaveev A.M.	INFLUENCE OF ANTIOXIDANTS ON OXIDATION RESISTANCE OF RAPESEED OIL OF HIGH-VOLTAGE ELECTRICAL EQUIPMENT
4-011	Bazhenov S.D.	NEW POLYIMIDES FOR MEMBRANE SEPARATION IN AMMONIA INDUSTRY
4-012	Bazhenov S.D.	NEW POLYIMIDES FOR MEMBRANE SEPARATION IN AMMONIA INDUSTRY
4-013	Belesov A.V.	BROWN ALGAE BIOMASS FRACTIONATION USING ALKYLIMIDAZOLIUM IONIC LIQUIDS

OCTOBER 9

SECTION 4. RESOURCE SAVING, ENVIRONMENTAL SAFETY AND CHEMICAL-TECHNOLOGICAL PROCESSES IN CIRCULAR ECONOMY

4-014	Bushueva N.I.	THE ELECTROCHEMICAL ETCHING METHOD APPLICATION FOR DETERMINING RESIDUAL STRESSES IN PIPES
4-015	Volkov I.V.	SORPTION PROPERTIES OF TRICALCIUM PHOSPHATE IN RELATION TO SR(II) IONS
4-016	Volodina N.Yu.	STUDY OF PHASE EQUILIBRIUM IN THE ALCOHOL-ESTER SYSTEM WITH THE DEEP EUTECTIC SOLVENT BASED ON CHOLINE CHLORIDE
4-017	Voloshin A.I.	SYNERGETIC INFLUENCE OF POLYSACCHARIDES AND ELECTROMAGNETIC FIELD ON THE PROCESS OF CALCIUM CARBONATE CRYSTALLISATION
4-018	Vokhmyakova I.S.	ALTERNATIVE TYPE OF FLUX USED IN THE COURSE OF PELLET PRODUCTION FOR BLAST FURNACE AND METALLIZATION PROCESS
4-019	Gaidamavichyute V.V.	DEVELOPMENT OF THREE-DIMENSIONAL MODELS OF TECHNOLOGICAL LINES OF CHEMICAL ENTERPRISES
4-020	GuShchin A.A.	DESTRUCTION OF PHARMACEUTICALS IN DIELECTRIC BARRIER DISCHARGE ON THE EXAMPLE OF PARACETAMOL
4-021	Dubrovina V.N.	DOUBLE ARYLATION" IN ALCL ₃ -PROMOTED TRANSFORMATION OF VINYL(DIPHENYLPHOSPHORYL) ALLENES IN BENZENE AND MESITYLENE
4-022	Dyachkova T.P.	SYNTHESIS OF AEROGEL AND CRYOGEL FORMS OF NANOCOMPOSITE SORBENTS BASED ON CARBON NANOTUBES AND GRAPHENE OXIDE
4-023	Egorova V.V.	PRODUCTION OF CARBON MATERIALS BY PLASMA PROCESSING OF OIL INDUSTRY WASTES IN ARC DISCHARGE PLASMA UNDER DIFFERENT CONDITIONS
4-024	Elokhov A.M.	CONVERSION METHOD OF PRODUCTION OF POTASSIUM FORMATE
4-025	Elpashev A.S.	BIFUNCTIONAL CATALYSTS FOR PROPYLENE CARBONATE OBTAINING FROM UREA AND PROPYLENE GLYCOL
4-026	Zagorodnova A.S.	HYDROGEN-GENERATING SYSTEM BASED ON ALUMINUM AND INORGANIC SALTS

OCTOBER 9

SECTION 4. RESOURCE SAVING, ENVIRONMENTAL SAFETY AND CHEMICAL-TECHNOLOGICAL PROCESSES IN CIRCULAR ECONOMY

4-027	Zakhodyaeva Yu.	EXTRACTION IN NEODYMIUM MAGNET UTILIZATION PROCESSES
4-028	Zinoveev D.V.	PYROMETALLURGICAL PROCESSING OF INDUSTRIAL WASTE FOR METAL EXTRACTION AND PRODUCTION OF CONSTRUCTION MATERIALS
4-029	Zinoveva I.V.	EXTRACTION RECYCLING OF LFP BATTERIES USING HYDROPHOBIC EUTECTIC SOLVENTS
4-030	Ivanov N.P.	TECHNOGENIC WASTES AND MATERIALS BASED ON THEM AS RAW MATERIALS FOR OBTAINING CERAMIC MATRIXES FOR IMMOBILIZATION OF COBALT-60 AND STRONTIUM-90
4-031	Kalashnikova G.O.	SYNTHETIC COMPOUND AM-4 AS AN ANALOGUE OF A RARE MINERAL AND A BASIS FOR OBTAINING A NUMBER OF NEW USEFUL COMPOUNDS IN THE FIELD OF CATALYSIS, RADIO- AND ELECTROCHEMISTRY WHEN PROCESSING MINING WASTE
4-032	Kisel A.V.	SEPARATION OF AN INDUSTRIAL MIXTURE OF DECALIN OR NAPHTHALENE FLUORINATION PRODUCTS. PERFLUORODECALIN – PERFLUOROBUTYLCYCLOHEXANE
4-033	Kovekhova A.V.	SORPTION OF DISSOLVED OIL PRODUCTS WITH CARBON-CONTAINING MATERIALS FROM PLANT RAW MATERIALS
4-034	Kozhevnikova A.V.	DEEP EUTECTIC SOLVENT BASED ON D2EHPA AND TBP FOR RECYCLING LFP BATTERIES
4-035	Kozlov K.S.	SYNTHESIS OF WYERONE COMPOUNDS FROM 5-(HYDROXYMETHYL)FURFURAL
4-036	Kozlov P.P.	PROSPECTS FOR THE APPLICATION OF CONCRETE MIXTURES BASED ON ALUMINA AND ORDINARY PORTLAND CEMENT FOR GEOLOGICAL ISOLATION OF RADIOACTIVE WASTE
4-037	Kryuchkov S.S.	STUDY OF GAS TRANSPORT CHARACTERISTICS OF INDIVIDUAL GASES AND COMPONENTS OF GAS MIXTURE OF POLYMER HOLLOW FIBER MEMBRANES FOR AIR SEPARATION
4-038	Kryuchkov S.S.	OPTIMISATION OF THE MEMBRANE-ASSISTED GAS ABSORPTION METHOD OF CARBON DIOXIDE CAPTURE IN TERMS OF APPARATUS CONFIGURATION AND ABSORBENT COMPOSITION

OCTOBER 9

SECTION 4. RESOURCE SAVING, ENVIRONMENTAL SAFETY AND CHEMICAL-TECHNOLOGICAL PROCESSES IN CIRCULAR ECONOMY

4-039	Kuznetsova Yu.V.	AGRONOMY EFFICIENCY OF STRUVITE PRODUCED USING MODIFIED TECHNOLOGY
4-040	Kulemin V.V.	SORPTION OF TBP BY POLIMER SORBENT POLYSORB-1
4-041	Kulyukhin S.A.	A NEW APPROACH TO RECYCLING PLASTIC BOTTLE CAPS AND RINGS
4-042	Kulyukhin S.A.	A NEW APPROACH TO RECYCLING PLASTIC BOTTLE CAPS AND RINGS
4-043	Kunilova I.V.	DEVELOPMENT OF A COST-EFFECTIVE SCHEME FOR PROCESSING ASH AND SLAG WASTE
4-044	Lobovich D.V.	ANALYSIS OF REALIZATION OF LIQUID PSEUDOMEMBRANE TECHNIQUE PROCESSES WITH NATURAL AND FORCED CIRCULATION OF MEMBRANE PHASE
4-045	Malkova Yu.O.	THE EFFECT OF THE CHARGE AND SIZE OF THE DISPERSED PHASE ON INCREASING THE EFFICIENCY OF ELECTROFLOTATION EXTRACTION OF FRESHLY DEPOSITED BARIUM SULFATE

OCTOBER 9

SECTION 6. ANALYTICAL CHEMISTRY: NEW METHODS AND TOOLS FOR CHEMICAL RESEARCH AND ANALYSIS

Moderator Rusanova T.Yu.

-
- 6-052 **Bogacheva A.G.** О ВОПРОСАХ СООТВЕТСТВИЯ И НАДЛЕЖАЩЕЙ ПРАКТИКИ ВОДНОГО КОНТРОЛЯ С ПРИМЕНЕНИЕМ ГОТОВЫХ ТЕХНОЛОГИЙ ОТ ГРУППЫ КОМПАНИЙ «КРИСМАС»
-
- 6-053 **Shavrina I.S.** OCCURRENCE OF ORGANIC POLLUTANTS IN ARCTIC ATMOSPHERIC AIR USING THERMAL DESORPTION GAS CHROMATOGRAPHY – HIGH-RESOLUTION MASS SPECTROMETRY
-
- 6-054 **Sypalov S.A.**
-
- 6-055 **Chernobelskaya S.A.** HIGH PERFORMANCE LIQUID CHROMATOGRAPHY WITH SIMULTANEOUS COMBINED MASS SPECTROMETRIC DETECTION BY ICP-MS AND APCI-MS METHODS
-
- 6-056 **Faleva A.V.** IDENTIFICATION OF IRIDOIDS IN A COMPLEX MIXTURE OF PLANT EXTRACTS ACCORDING TO 2D NMR AND HPLC-HRMS DATA
-
- 6-057 **Pikovskoi I.I.** STUDY OF THE CHEMICAL COMPOSITION OF TECHNICAL LIGNINS BY MASS SPECTROMETRY
-
- 6-058 **Faleva A.V.** IDENTIFICATION OF LIGNIN STRUCTURAL FRAGMENTS BASED ON TWO-DIMENSIONAL NMR SPECTROSCOPY DATA: MAIN PROBLEMS AND SOLUTIONS
-
- 6-059 **Sypalova Yu.A.** APPLICATION OF NMR/COS-IR COMBINATION SPECTROSCOPY FOR THE COMPLEX CHARACTERIZATION OF LIGNIN STRUCTURAL FEATURES
-
- 6-060 **Babaskina M.M.** ОПРЕДЕЛЕНИЕ КАТЕХИНОВ В КОМБУЧЕ МЕТОДОМ ХРОМАТОМАСС-СПЕКТРОМЕТРИИ
-
- 6-061 **Bochko T.N.** BIOLOGICALLY ACTIVE SUBSTANCES EXTRACTION FROM MADDER ROOTS RUBIA TINCTORUM L.
-
- 6-062 **Sorochkina T.G.** DETERMINATION of IMPURITIES in ISOTOPICALLY-ENRICHED SILICON TETRAFLUORIDE by CHROMATO-MASS-SPECTROMETRY
-

OCTOBER 9

SECTION 6. ANALYTICAL CHEMISTRY: NEW METHODS AND TOOLS FOR CHEMICAL RESEARCH AND ANALYSIS

6-063	Gribanov E.N.	SORPTION OF SUBSTANCES OF DIFFERENT NATURE BY ALUMINOSILICATE AND ITS APPLICATION IN CHEMICAL ANALYSIS
6-064	Saveleva E.I.	DETERMINATION OF SHORT-CHAIN FATTY ACIDS IN BLOOD SERUM BY GAS CHROMATOGRAPHY – TANDEM MASS SPECTROMETRY
6-065	Malyshev A.N.	НЕОБХОДИМОСТЬ УЧЕТА КАРБОКСИЛАТОВ МЕТАЛЛОВ ПРИ ПРОВЕДЕНИИ ЖИРОКИСЛОТНОГО АНАЛИЗА ОБЪЕКТОВ КУЛЬТУРНОГО НАСЛЕДИЯ
6-066	Belonosova V.A.	EXTRACTION OF CARBOXYLIC ACIDS FROM THE CONTENTS OF AMPHORAE FOR DETERMINATION OF FATTY ACID PROFILE BY GC/MS
6-067	Khaidarova D.V.	A COMPARISON OF SAMPLING METHODS USED IN THE ANALYSIS OF E-LIQUIDS BY GC/MS
6-068	Frolova A.V.	STUDY OF METABOLOMIC PROFILES OF PATIENTS WITH GENITOURINARY ONCOPATHOLOGIES USING UNTARGETED LIQUID CHROMATOGRAPHY-MASS-SPECTROMETRY BASED PROFILING
6-069	Levashova A.I.	METABOLOMIC PROFILES OF MUSK MOSCHUS MOSCHIFERUS AS A PLATFORM FOR ASSESSING THE THERAPEUTIC AND ADAPTOGENIC POTENTIAL OF MUSK MEDICINE PREPARATIONS
6-070	Savinov S.S.	ICP-OES DETERMINATION OF ELEMENTS IN HOOKAH TOBACCO WITH PRELIMINARY MINERALIZATION OF SAMPLES
6-071	Pavlova A.A.	ORDERED FILMS OF GOLD NANOPARTICLES FOR APPLICATION IN ENHANCED RAMAN SPECTROSCOPY
6-072	Khatymova L.Z.	LONG-LIVED NEGATIVE MOLECULAR IONS OF PERYLENE
6-073	Khatymov R.V.	LONG-LIVED NEGATIVE MOLECULAR IONS OF PERYLENE
6-074	Melamed T.B.	ION MOBILITY SPECTROMETRY OF ALCOHOLS

OCTOBER 9

SECTION 6. ANALYTICAL CHEMISTRY: NEW METHODS AND TOOLS FOR CHEMICAL RESEARCH AND ANALYSIS

-
- 6-075 **Osinova E.S.** INVESTIGATION OF THE IONIZATION PROCESSES OF ANILINE NITRO DERIVATIVES
-
- 6-076 **Sevastyanov V.S.** STUDY OF CHANGES IN THE FRACTIONAL COMPOSITION OF ORGANIC MATTER IN BOTTOM SEDIMENTS USING ISOTOPE RATIO MASS SPECTROMETRY (IRMS)
-
- 6-077 **Dogadkin D.N.** PREPARATION FOR ELEMENTAL ANALYSIS BY ISP-AES/MS METHODS OF PLANT SAMPLES WITH A HIGH SILICON CONTENT
-
- 6-078 **Gromyak I.N.** DETERMINATION OF LEACHING RATE OF SODIUM ALUMINUM IRON PHOSPHATE GLASS COMPONENTS BY ICP-AES METHOD
-
- 6-079 **Gromyak I.N.** INVESTIGATION OF SORPTION PROPERTIES OF THE COMPOSITE MATERIAL GRAPHENE OXIDE/ CARBOXYMETHYLCELLULOSE/IRON NANOPARTICLES WITH RESPECT TO Pb(II) AND Zn(II) IONS BY ICP-AES
-
- 6-080 **Kazin V.I.** ACID MINERALIZATION OF BLACK SHALE SAMPLES FOR ANALYSIS BY ICP-MS/AES METHODS
-
- 6-081 **Zhilkina A.V.** DETERMINATION OF ELEMENTAL COMPOSITION OF FELDSPAR BRECCIA (NWA 11828) BY ICP-MS/AES METHODS
-
- 6-082 **Lebedeva L.M.** EXTRACTION OF RARE EARTH ELEMENTS IN AQUEOUS BI-PHASIC SYSTEMS BASED ON QUATERNARY AMMONIUM SALTS FOLLOWED BY INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY DETERMINATION
-
- 6-083 **Frolova A.O.** SORPTION CONCENTRATION OF ANALYTES USING GRAPHENE OXIDE FOR ICP-MS, ICP-OES AND TJP-OES ANALYSIS OF SOLUTIONS
-
- 6-084 **Kazin V.I.** ASSESSMENT OF TRACE AMOUNTS OF OSMIUM WHILE NOBLE METALS DETERMINATION BY ICP-MS METHOD
-
- 6-085 **Khudneva A.O.** SURFACE MODIFICATION OF CARBON NANOMATERIALS FOR SELECTIVE SORPTION OF NOBLE METALS FOR DETERMINATION BY ICP-MS
-

OCTOBER 9

SECTION 6. ANALYTICAL CHEMISTRY: NEW METHODS AND TOOLS FOR CHEMICAL RESEARCH AND ANALYSIS

-
- 6-086 **Balak G.M.** TEST INDICATION OF ROCKET HYDRAZINE FUELS UNDER OPERATING CONDITIONS
-
- 6-087 **Balak G.M.** PROMPT GAS CHROMATOGRAPHIC DETERMINATION OF JET FUELS FLASH POINT
-
- 6-088 **Afonin M.B.** THE DEVELOPMENT AND QUALIFICATION OF A HIGH-SPEED METHOD FOR THE VERIFICATION OF PROTEIN AMINO ACID SEQUENCES
-
- 6-089 **Shcherbatykh A.A.** SPECTROSCOPIC STUDY OF BIOLOGICALLY ACTIVE COPPER (II) COMPLEXES BASED ON BIS-GETARYLHYDRAZONES OF 2,6-DIACETYLPIRIDINE
-
- 6-090 **Kaplin A.A.** ION MOBILITY SPECTROMETRY OF HALOGENOALKANES
-
- 6-091 **Kaplin A.A.** RAMAN SCATTERING SPECTROSCOPY OF ISOBUTANOL-WATER SYSTEM
-
- 6-092 **Ratova D.-M.V.** DEVELOPMENT OF AN INSTRUMENTAL PLATFORM FOR ASSESSMENT OF GRAPHENE OXIDE PARAMETERS
-
- 6-093 **Demina L.I.** FT-IR AND RAMAN SPECTROSCOPY FOR PREDICTION AND CONTROL OF ALKALI METAL EXTRACTION BY SALICYLIC ACID ESTERS.
-
- 6-094 **Khabibullin V.R.** POSSIBILITIES OF THERMAL LENS SPECTROMETRY IN ANALYSIS OF PHYSICAL AND CHEMICAL PROPERTIES OF AQUEOUS DISPERSIONS OF LATEX NANOPARTICLES
-
- 6-095 **Tanykova N.G.** SEMI-QUANTITATIVE DETERMINATION OF KEROGEN IN ROCKS BY IR SPECTROSCOPY
-
- 6-096 **Chudova E.S.** DETERMINATION OF STRUCTURAL GROUP COMPOSITION AND KEROGEN DISTRIBUTION IN ROCKS BY IR MICROSCOPY
-
- 6-097 **Shulkin V.M.** APPLICATION OF THE DYNAMIC LIGHT SCATTERING TO STUDY THE PARTICLE SIZE DISTRIBUTION IN THE POLYDISPERSE SYSTEMS OF NATURAL WATERS USING SYNTHESIZED PMMA PARTICLES WITH KNOWN SIZES
-

OCTOBER 9

SECTION 6. ANALYTICAL CHEMISTRY: NEW METHODS AND TOOLS FOR CHEMICAL RESEARCH AND ANALYSIS

-
- 6-098 **Pochivalov A.S.** SUPRAMOLECULAR SYSTEMS IN ENROFLOXACIN MICROEXTRACTION USING DEEP EUTECTIC SOLVENTS BASED ON TERPENOIDS
-
- 6-099 **Krekhova F.M.** DEEP EUTECTIC SOLVENTS AS A MEDIUM FOR DERIVATIZATION OF ANTIBACTERIAL DRUGS IN THE ANALYSIS OF BIOLOGICAL FLUIDS
-
- 6-100 **Boichenko E.S.** APPLICATION OF NIR SPECTROSCOPY AND CHEMOMETRICS FOR REAL-TIME DETERMINATION OF COMPOSITION OF URINARY CONCREMENTS
-
- 6-101 **Bakai K.A.** DEVELOPMENT OF ENZYME-LINKED IMMUNOSASSAY TECHNIQUE FOR THE DETERMINATION OF GENTAMICIN IN MEAT
-
- 6-102 **Berlina A.N.** INFLUENCE OF HAPTEN STRUCTURE ON THE SPECIFICITY OF IMMUNOANALYSIS OF ACETOCHLOR AND BUTACHLOR HERBICIDES
-
- 6-103 **Byzova N.A.** STUDYING THE ANTIGENE-BINDING ABILITY OF ANTIBODIES IMMOBILIZED ON GOLD NANOPARTICLES
-
- 6-104 **Kochetkova M.A.** COLORIMETRIC DETERMINATION OF POLYDADMAC IN TREATED WASTEWATER
-
- 6-105 **Pelipasov O.V.** DEVELOPMENT OF A PNEUMATIC FLOW BLURRING NEBULIZER FOR ANALYTICAL SPECTROMETRY
-
- 6-106 **Zhedulov A.E.** DETERMINATION OF THE CEFUROXIME RESIDUES IN LIVE-STOCK PRODUCTS
-

OCTOBER 9

SECTION 7. CATALYSIS IN SCIENCE AND INDUSTRY

7-028	Malysheva A.S.	BINAM DERIVATIVES FOR FLUORESCENCE DETECTION OF AMINO ALCOHOLS AND METAL CATIONS
7-029	Markov O.N.	NEW METHOD FOR 5-CARBOXYMETHYLIDENE HYDANTOINS SYNTHESIS
7-030	Murashkina A.V.	COPPER NANOPARTICLES IN THE CATALYTIC C-O AND C-S BONDS FORMATION
7-031	Nebykov D.N.	STUDY OF HYDROGENATION PROCESSES IN THE PRESENCE OF INFLICTED CATALYSTS BASED ON METALS OF VARIABLE VALENCE OBTAINED BY CHEMICAL REDUCTION
7-032	Orudzhev F.F.	SYNTHESIS OF HYBRID MAGNETO-PIEZOELECTRIC COMPOSITE MEMBRANES FOR CATALYTIC APPLICATIONS
7-033	Okhlopkova L.B.	HIGHLY SELECTIVE AND STABLE CATALYTIC FILMS FOR THE HYDROGENATION OF 2-METHYL-3-BUTYN-2-OL IN MICROCAPILLARY REACTOR
7-034	Okhlopkova L.B.	HIGHLY SELECTIVE AND STABLE CATALYTIC FILMS FOR THE HYDROGENATION OF 2-METHYL-3-BUTYN-2-OL IN MICROCAPILLARY REACTOR
7-035	Permyakova I.A.	OBTAINING OF MESOPOROUS PHOSPHATES WITH HIGH SPECIFIC SURFACE AREA BY THERMAL DEVOLATILIZATION METHOD
7-036	Potylitsyna A.R.	SYNTHESIS AND STUDY OF CARBON NANOFIBRES OBTAINED IN THE DECOMPOSITION OF TRICHLOROETHYLENE ON MICRODISPERSED NI-M CATALYSTS
7-037	Pushankina P.D.	NANOSTARS AS HIGHLY ACTIVE CATALYST IN MEMBRANE HYDROGEN PROCESSES
7-038	Pshenitsyn M.B.	CATALISATORS BASE ON RARE EARTH ELEMENTS COMPOSITES AND BASALT FIBRES FOR LOW-TEMPERATURE ORTHO-PARA CONVERSION OF HYDROGEN
7-039	Rumyantsev R.N.	DEVELOPMENT AND PREDICTION OF PROPERTIES OF OXIDE COPPERZINC-ALUMINUM CATALYSTS FOR LARGE-SCALE PROCESSES OF SYNGAS PROCESSING
7-040	Salnikov A.V.	DEVELOPMENT OF CATALYSTS FOR RESOURCE-SAVING CONVERSION OF METHANE INTO HYDROGEN-CONTAINING GAS
7-041	Samorodnova A.P.	ROLE OF AMINO GROUPS IN POROUS COORDINATION POLYMERS FOR CATALYTIC CONVERSION OF CO ₂

OCTOBER 9

SECTION 7. CATALYSIS IN SCIENCE AND INDUSTRY

7-042	Samsonov O.V.	OLEFIN POLYMERIZATION CATALYSTS BASED ON CYCLOPROPYL-SUBSTITUTED BIS(INDENYL) ZIRCONOCENE COMPLEXES OF C ₂ -SYMMETRY
7-043	Severgina E.S.	SYNTHESIS OF ZSM-5 ZEOLITE WITH LOW SODIUM CONTENT
7-044	Selimov D.A.	STUDY OF PIEZO/PHOTOCATALYTIC PROPERTIES OF PVDF NANOFIBERS MODIFIED WITH MAGNESIUM NITRATE.
7-045	Surzhikova Ya.I.	SYNTHESIS AND STUDY OF THE CATALYTIC ACTIVITY OF PHOTOACTIVE PD/NHC SYSTEMS
7-046	Syrtsov D.A.	RESEARCH AND DEVELOPMENT OF HIGHLY EFFICIENT MOF-BASED CATALYSTS FOR ORTHO-PARA HYDROGEN CONVERSION
7-047	Tushkanov I.M.	ADVANTAGES OF RETICULATED CATALYTIC SYSTEMS FOR GAS TREATMENT OF NITROGEN AND CARBON OXIDES AND VOLATILE ORGANIC COMPOUNDS IN ATMOSPHERIC EMISSIONS OF CHEMICAL AND METALLURGICAL INDUSTRIES
7-048	Flid V.R.	STRAINED DOUBLE C=C BOND: NEW OPPORTUNITIES IN SYNTHESIS AND CATALYSIS
7-049	Khanna S.A.	NEW HIGH-ENTROPY OXIDE CATALYSTS WITH PEROVSKITE STRUCTURE FOR ETHANOL REFORMING
7-050	Khromova O.V.	SYNTHESIS AND MODIFICATION OF ASYMMETRIC CATALYSTS BASED ON CHIRAL Co(III) COMPLEXES OF Λ - AND Δ -CONFIGURATIONS
7-051	Shandybo M.A.	ALGINATES AS GREEN" CARRIERS FOR IMMOBILIZATION OF CHIRAL ORGANIC CATALYSTS
7-052	Shelepenko K.E.	SYNTHESIS OF NEW NAPHTHYLTERPYRIDINE DERIVATIVES - POTENTIAL LIGANDS FOR METALORGANIC CATALYSIS
7-053	Shestakova V.S.	DEVELOPMENT OF IRON-BASED CATALYSTS TO PRODUCE TURQUOISE HYDROGEN BY METHANE PYROLYSIS

OCTOBER 9

SECTION 8. POLYMERS AND POLYMERIC MATERIALS (INCLUDING 2ND INTERNATIONAL SYMPOSIUM "MODERN TRENDS IN DENDRIMER CHEMISTRY AND APPLICATIONS")

8-042	Tikhonova A.A.	SYNTHESIS OF 2,2"-DITHIODIETHANOL AT ATMOSPHERIC PRESSURE
8-043	Ulyakina Yu.V.	OBTAINING A COMPOSITE MATERIAL BASED ON HYDROXY PROPYL METHYL CELLULOSE WITH INORGANIC SALTS POSSESSING SUPERABSORBENT PROPERTIES
8-044	Khaptakhanova P.A.	SYNTHESIS OF POLY-L-LACTIC ACID- ϵ -POLYLYSINE COPOLYMER USING PULSE MECHANOACTIVATION
8-045	Zaitsev S.D.	THERMOPLASTIC COMPOSITIONS BASED ON CHITOSAN-POLYLACTIDE-POLYCAPROLACTONE BLENDS
8-046	Zaitseva A.E.	OXYTHERMOGRAPHY AS A NEW ANALYTICAL METHOD OF INVESTIGATION OF THERMOOXIDATIVE DESTRUCTION OF POLYMERIC MATERIALS
8-047	Zakharova N.V.	STRUCTURE AND PROPERTIES OF NOVEL (CO)POLYAMIDE-IMIDES FOR MEMBRANES TECHNOLOGY
8-048	Zakharova N.V.	STRUCTURE AND PROPERTIES OF NOVEL (CO)POLYAMIDE-IMIDES FOR MEMBRANES TECHNOLOGY
8-049	Zlobina I.V.	PROSPECTS IN THE FIELD OF INCREASE OF PHYSICO-MECHANICAL CHARACTERISTICS OF CURED POLYMER COMPOSITE MATERIALS
8-050	Zubareva A.A.	TO THE PROBLEM OF DETERMINATION OF MOLECULAR-MASS CHARACTERISTICS OF CHITOSAN
8-051	Zubova V.Yu.	SYNTHESIS AND RESEARCH OF PROPERTIES OF STARSHAPED POLYMERS OBTAINED BY «GRAFTING-ONTO» AND «CORE FIRST METHODS»
8-052	Ivankova E.M.	MODIFICATION OF STRUCTURE AND PROPERTIES OF COMPOSITE POLYIMIDE FIBRES BY INTRODUCTION OF CARBON NANOPARTICLES
8-053	Ilina T.M.	PREPARATION OF CROSS-LINKED POLYMERS BASED ON POLYSILOXANES
8-054	Kazantseva A.Yu.	SYNTHESIS AND PROPERTIES OF NONISOCYANATE POLYSILOXANURETHANES
8-055	Katarzhnova E.Yu.	INVESTIGATION OF SURFACE ACTIVITY AND ORDERING OF HYBRID CARBOSILANE-CYCLOSILOXANE DENDRIMERS

OCTOBER 9

SECTION 8. POLYMERS AND POLYMERIC MATERIALS (INCLUDING 2ND INTERNATIONAL SYMPOSIUM "MODERN TRENDS IN DENDRIMER CHEMISTRY AND APPLICATIONS")

8-056	Kim E.E.	METALLO-SUPRAMOLECULAR CROSS-LINKED POLYSILOXANES: SYNTHESIS AND PROPERTIES
8-057	Kirakosyan D.V.	DETERMINATION OF THE STRUCTURE OF SULFUR-CONTAINING POLYMERS OBTAINED BY REVERSE VULCANIZATION METHOD BY MALDI-TOF SPECTROMETRY
8-058	Shchurik E.V.	PROMISING ORGANIC CATHODE MATERIALS FOR POTASSIUM BATTERIES
8-059	Kirillov V.E.	MODIFICATION OF POLYPROPYLENE FIBERS BY COMPOSITE MATERIALS WITH METAL-CONTAINING NANOPARTICLES
8-060	Klokoval K.S.	SELF-CATALYZED HYDROLYSIS OF TRIAZOLE-CONTAINING ALKOXYSILANES
8-061	Korzhikov-Vlakh V.A.	NEW POLYMERIC MATERIALS FOR TISSUE ENGINEERING: COMPOSITES BASED ON ALIPHATIC POLYESTERS AND CELLULOSE DERIVATIVES
8-062	Korzhikov-Vlakh V.A.	NEW POLYMERIC MATERIALS FOR TISSUE ENGINEERING: COMPOSITES BASED ON ALIPHATIC POLYESTERS AND CELLULOSE DERIVATIVES
8-063	Kochetkov V.G.	INVESTIGATION OF ELASTOMERIC FIREPROOF MATERIALS WITH PHOSPHORUS-NITROGEN CONTAINING MODIFIERS
8-064	Krivorotov D.V.	SOY LECITHIN LIPOSOMES FOR PROTEIN DELIVERY
8-065	Krupnin A.E.	DESIGN, CALCULATION AND MANUFACTURE OF PERSONALISED BIODEGRADABLE PRODUCTS USING ADDITIVE TECHNOLOGIES
8-066	Kryukova D.A.	INVESTIGATION OF INFLUENCE OF MICROFIBRES PLASMA TREATMENT MODE ON INTERFACIAL TENSION IN THE SYSTEM 'FIBRE - RUBBER'
8-067	Kuzminova A.I.	DEVELOPMENT AND STUDY OF COMPOSITES CHITOSAN/ CARBON NANOPARTICLES FOR PERSPECTIVE MEMBRANE MATERIALS

OCTOBER 9

SECTION 8. POLYMERS AND POLYMERIC MATERIALS (INCLUDING 2ND INTERNATIONAL SYMPOSIUM "MODERN TRENDS IN DENDRIMER CHEMISTRY AND APPLICATIONS")

8-068	Kukovyakina E.V.	IN VITRO AND IN VIVO TOXICITY ASSESMENT OF CURCUMIN-LOADED AMPHIPHILIC POLY(N-VINYLPYRROLIDONE) NANOPARTICLES
8-069	Kurdanova Zh.I.	INFLUENCE OF CHEMICAL STRUCTURE OF END GROUPS ON PROPERTIES OF POLYPHENYLENE SULFONE FOR ULTRAFILTRATION MEMBRANES
8-070	Lavlinskaya M.S.	CYSTEINE PROTEASES STABILIZED WITH SULFANILAMIDE CHITOSAN AS NEW PROMISING ANTIBACTERIAL COMPOSITIONS
8-071	Lashmanov N.N.	INFLUENCE OF REACTION CONDITIONS ON CATALYTIC PROPERTIES OF $\text{rac-Et}(2\text{-MeInd})_2\text{ZrMe}_2/(2,6\text{-tBu}_2\text{PhO-})\text{Al}i\text{Bu}_2$ IN ETHYLENE-PROPYLENE COPOLYMERIZATION
8-072	Lomovskaya N.Yu.	RELAXATION PHENOMENA IN A COMPOSITE FILM OBTAINED FROM POLYVINYL ALCOHOL AND SILVER NITRATE UNDER UV IRRADIATION
8-073	Malakhov S.N.	POLYANILINE-BASED NONWOVEN CONDUCTIVE MATERIALS FOR USE IN ORGANIC ELECTRONICS
8-074	Malakhova Yu.N.	SELF-ASSEMBLY OF AMPHIPHILIC BIOCOMPATIBLE ETHYLENE OXIDE AND CAPROLACTONE BLOCK COPOLYMERS AT THE AIR/WATER INTERFACE
8-075	Manin A.D.	NITRATE-SELECTIVE METAL-POLYMER MEMBRANES BASED ON CARDO POLY(BENZIMIDAZOLE)

OCTOBER 9
SECTION 9. CHEMICAL EDUCATION

9-013	Oreshkina O.A.	AN EFFECTIVE INSTRUCTIONAL STRATEGY IN CHEMISTRY FOR HEARING-IMPAIRED STUDENTS - SUBJECTS OF INCLUSIVE PROGRAMS OF A TECHNICAL UNIVERSITY
9-014	Pankratova A.V.	USE OF MODERN EDUCATIONAL TECHNOLOGIES IN CLASSROOM AND EXTRA-CLASSROOM ACTIVITIES AS A MEANS OF ACHIEVING PLANNED RESULTS
9-015	Peshkichev I.V.	APPLICATION OF S SOFTWARE TOOL TEDY 2.0 FOR THERMODYNAMIC MODELLING OF CHEMICAL TECHNOLOGIES
9-016	Sultanova D.Sh.	QUESTIONNAIRE AT CHEMISTRY UNIVERSITY
9-017	Teleshov S.V.	CREATOR OF RUSSIA'S TECHNOLOGICAL INDEPENDENCE
9-018	Ter-Akopyan M.N.	SIMULTANEOUS TEACHING STUDENTS WITH DIFFERENT BACKGROUND IN CHEMISTRY
9-019	Chalovskaya O.V.	ENVIRONMENTAL EDUCATION IN TEACHING CHEMISTRY AT THE UNIVERSITY
9-020	Chikanova E.S.	VULNERABLE POINTS IN THE EDUCATIONAL PROCESS IN HIGHER EDUCATION, TAKING INTO ACCOUNT THE CLIP THINKING OF STUDENTS AND THE DEVELOPMENT OF NEURAL NETWORKS (USING THE EXAMPLE OF TEACHING CHEMISTRY)
9-021	Chugunova N.A.	INTEGRATION OF CHEMISTRY CONTENT INTO BIOLOGY CURRICULUM
9-022	Pluzhnik O.M.	PROBLEMS OF MODERN PROFESSIONAL PEDAGOGICAL EDUCATION
9-023	Kuzmina I.A.	CHEMICAL NANOPRACTICUM FOR STUDENTS OF TECHNICAL UNIVERSITY

OCTOBER 9

12. 11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

12-038	Lebedeva E.M.	ELECTROCHEMICAL NO ₂ SENSOR BASED ON GLASS-CARBON/NIO ACTIVE SYSTEM
12-039	Loza N.V.	EFFECT OF THICKNESS ON THE MEMBRANE CURRENT-VOLTAGE CURVES
12-040	Loza S.A.	SELECTIVE CONCENTRATION OF ELECTROLYTE SOLUTIONS USING BILAYER ION EXCHANGE MEMBRANES
12-041	Maltseva N.V.	LOW PERCENTAGE COBALT CATALYSTS FOR ELECTROSYNTHESIS OF HYDROGEN PEROXIDE
12-042	Maslova V.V.	REVERS ELECTRODIALYSIS AS AN ALTERNATIVE METHOD OF ELECTRIC POWER GENERATION
12-043	Nizameeva G.R.	ELECTROCHEMICAL SYNTHESIS OF ACTIVE ANISATROPIC COATINGS BASED ON SUPRAMOLECULAR METAL SYSTEMS
12-044	Nikolaichuk P.A.	THE INHIBITORY PROPERTIES OF 2-(6,8-DIBROMO-3-(4-HYDROXYCYCLOHEXYL)-1,2,3,4-TETRAHYDROQUINAZOLIN-2-YL) PHENOL ON THE CORROSION OF STEEL EN Fe37-3FN IN ACIDIC ENVIRONMENTS
12-045	Novoselova Yu.V.	CHEMICAL SYNTHESIS OF ORGANOMETALLIC POLYMER MATERIALS POLYNI(CH ₃ OSALEN) _N AND ANALYSIS OF THEIR ELECTROCHEMICAL PROPERTIES
12-046	Panshin E.B.	PREPARATION AND ELECTROCHEMICAL PROPERTIES OF ELECTRODE MATERIAL BASED ON NITROGEN DECORATED CARBON NANOTUBES FOR HYBRID SUPERCAPACITORS
12-047	Polunina A.O.	EVOLUTION OF STRUCTURAL PARAMETERS OF OXIDE CERAMIC COATINGS ON MAGNESIUM ALLOY DURING EXPOSURE OF A CORROSIVE ENVIRONMENT
12-048	Rudyi A.S.	ON THE APPLICABILITY OF PEUKERT'S LAW TO ALL-SOLID-STATE LITHIUM-ION BATTERIES
12-049	Savin V.S.	INVESTIGATION OF THE KINETIC REGIME OF ELECTRON TRANSFER ON GRAPHENE ELECTRODES
12-050	Solovev E.A.	ELECTROCHEMICAL MODIFICATION OF THE SURFACE OF A GLASSY CARBON ELECTRODE WITH NICKEL NANOPARTICLES

OCTOBER 9

12. 11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

12-051	Speshilov I.O.	INCREASING THE PERFORMANCE OF HYDROGEN-BROMATE BATTERY
12-052	Starostin G.N.	GRAIN AND GRAIN BOUNDARY TRANSPORT OF THE PROTON CONDUCTING CERAMIC $\text{BaSn}_{0.8}\text{Y}_{0.2}\text{O}_{3-\delta}$ AT DIFFERENT OXYGEN PRESSURES
12-053	Stulov Yu.V.	STUDY OF NEODYMIUM EXTRACTION FROM NdFeB ALLOY IN MOLTEN SALTS
12-054	Tarutin A.P.	BLOCKING UNDESIREDDIFFUSION AS A WAY TO OPTIMIZE PCFC BASED ON $\text{Pr}_2\text{NiO}_{4+\delta}$
12-055	Tarutina L.R.	ASPECTS OF CHEMICAL STABILITY OF MIXED ION-ELECTRON CONDUCTORS AS PROMISING ELECTRODES FOR PROTON-CERAMIC FUEL CELLS
12-056	Tashkin V.Yu.	ELECTROSTATIC POTENTIALS ASSIGNED TO TRANSFER OF PROTONS ALONG THE SURFACE OF LIPID MEMBRANE FROM DONOR TO ACCEPTOR
12-057	Teres Yu.B.	CHIRAL VOLTAMMETRIC SENSOR BASED ON NI(II) CHELATE COMPLEX
12-058	Teres Yu.B.	CHIRAL VOLTAMMETRIC SENSOR BASED ON NI(II) CHELATE COMPLEX
12-059	Ushakov A.V.	PREDICTION OF ELECTRODE MATERIAL SPECIFIC CAPACITY FROM DISTRIBUTION OF ION DIFFUSION PATHS BY ACTIVATION ENERGY
12-060	Falina I.V.	CONDUCTIVE AND DIFFUSION PROPERTIES OF THE MF-4SK PERFLUORINATED MEMBRANE IN THE PROCESS OF ITS MODIFICATION WITH ZIRCONIUM PHOSPHATE
12-061	Falina I.V.	CONDUCTIVE AND DIFFUSION PROPERTIES OF THE MF-4SK PERFLUORINATED MEMBRANE IN THE PROCESS OF ITS MODIFICATION WITH ZIRCONIUM PHOSPHATE
12-062	Filippov V.L.	SURFACE CHARACTERIZATION OF SINGLE-CRYSTALLINE AND DISPERSED COPPER ELECTROCATALYSTS UNDER ALKALINE CONDITIONS
12-063	Kharisova K.A.	SEARCH FOR NEW POLYMER PRECURSORS FOR ORR ELECTROCATALYSTS

OCTOBER 9

12. 11TH INTERNATIONAL FRUMKIN SYMPOSIUM ON ELECTROCHEMISTRY

12-064	Khotov A.A.	OBTAINING COATINGS OF INTERMETALLIC PHASES OF DYSPROSIUM AND NICKEL ON A NICKEL ELECTRODE IN A KCl-NaCl-CsCl EUTECTIC MELT AT 823 K
12-065	Chetverikova D.A.	DETERMINATION OF PARTITION COEFFICIENTS OF LIPOPHILIC ELECTROLYTES BETWEEN WATER AND PLASTICIZED PVC MEMBRANE
12-066	Choba M.A.	ELECTRICAL DOUBLE LAYER AT THE Sn/ PROPYLENE CARBONATE INTERFACE
12-067	Choba M.A.	ELECTRICAL DOUBLE LAYER AT THE Sn/ PROPYLENE CARBONATE INTERFACE
12-068	Shafigullina K.E.	COMPOSITE ELECTRODE MATERIALS WITH EXTENDED SERVICE LIFE FOR SUPERCAPACITORS OBTAINED BY DEPOSITION OF POLYANILINE IN PORES AND ON THE SURFACE OF HIGHLY POROUS CARBON FABRIC
12-069	Shashkov A.V.	TEMPLATE ELECTRODEPOSITION OF INDIUM NANOFILAMENTS AND MEASUREMENT OF THEIR ELECTRICAL RESISTANCE
12-070	Enders P.Ya.	FORMATION OF COBALT-CONTAINING NANOSTRUCTURED SURFACES ON GLASS-CARBON ELECTRODES

OCTOBER 9

15. SYMPOSIUM MACROHETEROCYCLIC COMPOUNDS – NEW PERSPECTIVE MOLECULAR MATERIALS FOR SCIENCE, TECHNIQUES, TECHNOLOGY, AND MEDICINE (APPLICATIONS)

15-001	Afonyushkina E.Yu.	PHOTOCATALYTIC REAGENTLESS SENSOR SURFACE BASED ON PHTHALOCYANINES AND PLASMONIC STRUCTURES
15-002	Voytsekhovskiy D.E.	COVALENT IMMOBILIZATION OF CHLORINE ₆ ON CHITOSAN
15-003	Nugmanova A.G.	THE EFFICIENCY OF AMBIVALENT PHOTOCATALYSTS BASED ON PORPHYRINIC SURMOF AND GO
15-004	Rychikhina E.D.	MIXED PORPHYRIN FILMS DEPOSITED FROM SOLUTION: OPTICAL AND CHARGE-TRANSPORTING PROPERTIES
15-005	Sokolov M.R.	NON-COVALENT SELF-ASSEMBLY OF HYBRID MULTIMODAL CATALYSTS BASED ON ORGANIC CHROMOPHORES AND LOW-DIMENSIONAL INORGANIC NANOPARTICLES
15-006	Strelnikova I.V.	STRUCTURAL DIVERSITY AND RELATED SPIN PROPERTIES STUDY FOR NEW SULFONYLCALIX[4]ARENE SUPPORTED DI- AND TETRANUCLEAR Fe(III) COMPLEXES
15-007	Strelnikova I.V.	FIRST EVIDENCING OF SIMULTANEOUS SOLVENT AND TEMPERATURE INDUCED SPIN TRANSITIONS IN A SERIES OF NEW Fe(III) COMPLEXES BASED ON DIIMINE DERIVATIVES OF (THIA)CALIX[4]ARENES WITH CONTROLLED STRUCTURE
15-008	Ovsyannikov A.S.	NEW O-XYLENEDIAMINE BASED SALEN-TYPE LIGAND FOR 3d METAL COMPLEXES FORMATION OF VARIOUS NUCLEARITY
15-009	Tikhomirova T.V.	SYNTHESIS AND PROPERTIES OF AZO DYES AND PHTHALOCYANINES CONJUGATES
15-010	Usacheva T.R.	ENTHALPY CHARACTERISTICS OF SOLVATION OF 1-AZA-18-CROWN-6 IN AQUEOUS-ETHANOL SOLVENT
15-011	Faraonov M.A.	ANIONIC COMPLEXES OF FLUORINATED COPPER (II) PHTHALOCYANINES: CRYSTAL STRUCTURES, OPTICAL AND MAGNETIC PROPERTIES
15-012	Chernikova E.Y.	CUCURBITURIL-BASED FLUORESCENCE SUPRAMOLECULAR ASSEMBLIES OF STYRYL DYES IN SOLUTION AND LIVING CELLS
15-013	Shagabaeva M.A.	SYNTHESIS OF PORPHYRIN SENSITIZERS FOR SOLAR CELLS

OCTOBER 9

15. SYMPOSIUM MACROHETEROCYCLIC COMPOUNDS – NEW PERSPECTIVE MOLECULAR MATERIALS FOR SCIENCE, TECHNIQUES, TECHNOLOGY, AND MEDICINE (APPLICATIONS)

-
- 15-014 **Shutilov I.D.** DESIGN OF NEW $3d$ METAL DISCRETE COMPLEXES AND COORDINATION POLYMERS BASED ON *BIS*- AND *TRIS*-1,2,3-TRIAZOLYLETHYLAMINE DERIVATIVES
-
- 15-015 **Shutilov I.D.** NEW *O*-XYLENEDIAMINE BASED SALEN-TYPE LIGAND FOR $3d$ METAL COMPLEXES FORMATION OF VARIOUS NUCLEARITY
-
- 15-016 **Shutilov I.D.** NEW SUPRAMOLECULAR NANOCONTAINERS BASED ON SULFONYLCALIX[4]ARENE $3d$ METAL CLUSTERS AND CHIRAL 5-HYDROXYISOPHTHALIC ACID DERIVATIVES FOR MOLECULAR RECOGNITION
-
- 15-017 **Gorshkov E.V.** STRUCTURAL FEATURES OF PHOSPHOROUS (V) PHTHALOCYANINE WITH DIFFERENT COUNTERIONS
-
- 15-018 **Gorshkova A.I.** DEVELOPMENT OF METHODS FOR OBTAINING HYBRID SYSTEMS BASED ON GRAPHENE OXIDE AND ZINC PHTHALOCYANINATE
-
- 15-019 **Dmitrienko A.A.** FIRST EXAMPLE OF USING BINAPHTHYL-SUBSTITUTED RUTHENIUM PHTHALOCYANINATES AS CATALYSTS FOR ENANTIOSELECTIVE CYCLOPROPANATION
-
- 15-020 **Efimova I.A.** TUNING CYTOTOXIC PROPERTIES OF PHOSPHORUS(V) PORPHYRINS
-
- 15-021 **Kormshchikov I.D.,** MAGNETIC ANISOTROPY OF HOMO- AND HETERONUCLEAR Tb(III) AND Dy(III) TRISPHTHALOCYANINATES DERIVED FROM PARAMAGNETIC $^1\text{H-NMR}$ INVESTIGATION
-
- 15-022 **Kuzovlev A.S.** SILICON PHTHALOCYANINES AND TETRABENZOTRIAZACORROLES
-
- 15-023 **Mikheev I.A.** DESIGN OF NEW PYRAZINOPORPHYRAZINES AND QUINOXALINOPORPHYRAZINES
-
- 15-024 **Monich S.V.** SYNTHESIS AND PHOTODYNAMIC ACTIVITY OF NEW TETRACATIONIC ZINC PHTHALOCYANINATES
-
- 15-025 **Stepanova M.P.** SYNTHESIS OF A NEW WATER-SOLUBLE PHTHALOCYANINE WITH 32 CARBOXYLATE GROUPS
-

OCTOBER 9

15. SYMPOSIUM MACROHETEROCYCLIC COMPOUNDS – NEW PERSPECTIVE MOLECULAR MATERIALS FOR SCIENCE, TECHNIQUES, TECHNOLOGY, AND MEDICINE (APPLICATIONS)

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| 15-026 | Polovkova M.A. | WATER SOLUBLE NEAR-IR PHOTOINITIATOR BASED ONP(V)
PHTHALOCYANINE WITH GALACTOSE FRAGMENTS |
| 15-027 | Parfenyuk V.I. | CONDUCTING POLYPORPHYRIN FILMS BASED ON AMINO-
SUBSTITUTED TETRAPHENYLPORPHYRINS WITH VARIABLE
AMOUNTS OF AMINO-PHENYL SUBSTITUTENTS |
| 15-028 | Ponyaev A.I. | PROTON PHOTOTRANSFER IN BIS(HETERYL)ALKANES |
-

OCTOBER 9

16. SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

16-031	Kalistratova V.V.	RADIATION AND THERMAL STABILITY OF ANION EXCHANGE RESINS
16-032	Kaplina S.P.	ACCUMULATION OF RADIONUCLIDES IN BOTTOM SEDIMENTS OF TUUL RIVER IN MONGOLIA
16-033	Karavan M.D.	YTTRIUM-STRONTIUM SEPARATION IN CARBONATE MEDIA WITH A MIXTURE "HYDROXIAROMATIC COMPOUND - MTOAC"
16-034	Kochergina A.R.	CARBONYL-DIKETONATE COMPLEXES OF TECHNETIUM (II)
16-035	Konevnik Yu.V.	INFLUENCE OF Na-Al PHOSPHATE GLASS LEACHATES ON CLAYS SORPTION BEHAVIOR TOWARD RADIONUCLIDES
16-036	Koscheeva A.M.	CONDITIONS FOR THE SAFE USE OF CROWN ETHERS FOR EXTRACTION SHORT-LIFE FRACTION OF CESIUM AND STRONTIUM DURING SNF PROCESSING
16-037	Kramar B.V.	EXAFS ANALYSIS SHEDS LIGHT ON THE RELATIONSHIP BETWEEN PRECIPITATION CONDITIONS AND STRUCTURAL PROPERTIES OF DOUBLE ACTINIDE CARBONATES AND PHOSPHATES
16-038	Kropacheva M.Yu.	ISOTOPE REMOVAL FROM SOIL AND RHIZOSPHERE DURING FLOODS IN THE KRASNOYARSK MCC NEAR IMPACT ZONE
16-039	Krot A.D.	U(VI) SORPTION ON NATURAL SOIL
16-040	Krot A.D.	STRUCTURAL FEATURES OF U(VI) SORBED ON CLAY MINERALS
16-041	Kuzenkova A.S.	PENTAVALENT PLUTONIUM CARBONATE SOLID PHASE: FORMATION AND STRUCTURE
16-042	Lapshina E.V.	PRODUCTION OF ^{230}Pa AS A SOURCE OF RADIONUCLIDES ^{230}U AND ^{226}Th FOR TARGETED ALPHA THERAPY
16-043	Lyzlova E.V.	SORPTION RECOVERY OF PLUTONIUM FROM PROCESS SOLUTIONS WITH THE USE OF NEW DOMESTICALLY PRODUCED ANION-EXCHANGE MATERIALS
16-044	Madumarov A.S.	PHOTONUCLEAR AND REACTOR POSSIBILITIES TO PRODUCE THERANOSTIC RADIONUCLIDE ^{195}MPT

OCTOBER 9

16. SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

16-045	Makarov A.V.	IMMOBILIZATION OF ANIONIC FORMS OF LONG-LIVED RADIONUCLIDES IN RADIOACTIVE WASTE REPOSITORY
16-046	Marmaza P.A.	REMOVAL OF ^{137}Cs AND ^{90}Sr FROM LIQUID RADIOACTIVE WASTE WITH HIGH SALINITY BY PHARMACOSIDERITE TYPE TITANOSILICATES
16-047	Martynov K.V.	DIFFUSION OF RADIOACTIVE WASTE ELEMENTS IN PORE SOLUTIONS OF CLAY MATERIALS
16-048	Matskevich A.I.	SYNTHESIS OF NEW SORBENTS BASED ON AMIDOXIME FUNCTIONAL GROUPS FOR THE EXTRACTION OF TECHNETIUM FROM LIQUID MINERALIZED ENVIRONMENT
16-049	Mezina K.A.	REDISTRIBUTION OF RADIOACTIVE ELEMENTS IN THE NEAR-SURFACE LAYER OF THE SHERSTOBITOV PEAT RAISED BOG
16-050	Melnikova I.M.	PRODUCTION OF CRYSTAL MATRICES FOR THE INCORPORATION OF HIGHLY ACTIVE WASTE
16-051	Merkushkin A.O.	LAYER-BY-LAYER METHOD IN DETERMINING PARAMETERS OF DYNAMIC RADON ADSORPTION
16-052	Nevolin I.M.	Pd-Te PHASE IN SPENT NUCLEAR FUEL: AIR OXIDATION AND ACID DISSOLUTION BEHAVIOR
16-053	Nikitin D.I.	ANODIC DISSOLUTION OF URANIUM ALLOYS CONTAINING PALLADIUM AND NEODYMIUM IN MELTS BASED ON A EUTECTIC MIXTURE OF LITHIUM AND POTASSIUM CHLORIDES
16-054	Nikitin D.I.	ELECTROFINING OF METALLIZED MODEL NUCLEAR FUEL IN ELECTROLYTES CONTAINING REE CHLORIDES
16-055	Novikov A.P.	STUDYING NEW SUBTYPES OF NON-COVALENT INTERACTIONS BY THE HIRSHFELD SURFACE METHOD IN RHENIUM AND TECHNETIUM COMPOUNDS
16-056	Novichkov D.A.	EXPERIMENTAL AND THEORETICAL XANES INVESTIGATION OF UO_x AND UN SYSTEMS: HIGH-RESOLUTION MODELING RESULTS.

OCTOBER 9

16. SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

16-057	Obruchikov A.V.	SORPTION PROPERTIES OF ACTIVATED CHARCOAL WITH ALKALINE-EARTH METAL IODIDES AND TEDA IN RELATION TO RADIOACTIVE METHYL IODIDE
16-058	Obedkov A.S.	RADIATIONAL-THERMAL STABILITY OF NITRIC ACID SOLUTIONS OF CARBOHYDRAZIDE
16-059	Odintsova E.A.	MONTMORILLONITE AS RADIONUCLIDE CARRIER AGENT FOR NUCLEAR MEDICINE PURPOSES
16-060	Pavlyuk A.O.	PROBLEMS AND METHODOLOGICAL APPROACHES TO DETERMINATION OF ACTINIDE CONTENT IN GRAPHITE: RADIOCHEMICAL METHOD

OCTOBER 9

17. RUSSIAN-CHINESE SYMPOSIUM ON SELECTIVE TECHNOLOGIES FOR SEPARATION OF SUBSTANCES WITH SIMILAR PROPERTIES

17-001	Zavaluyeva A.S.	SYNTHESIS OF NANOSTRUCTURED SILICA FOR SORPTION PRECONCENTRATION AND SEPARATION OF POLYPHENOLIC SUBSTANCES
17-002	Kovalenko O.V.	EXTRACTION CHROMATOGRAPHY RECOVERY OF RARE EARTH ELEMENTS IN RECYCLING PROCESS OF NDFEB MAGNETS
17-003	Kostikova G.V.	APPLICATION OF DIGLYCOLAMIDES IN THE SCANDIUM SELECTIVE SOLVENT EXTRACTION PROCESSES
17-004	Kurmaeva Yu.I.	DENSITY AND DIELECTRIC PERMITTIVITY OF SOLUTIONS OF LANTHANOIDES OF MIDDLE-HEAVY GROUP IN AQUEOUS SOLUTIONS AND EXTRACTS P507 AND CYANEX 272
17-005	Maryutina T.A.	NEW ENVIRONMENTALLY BENIGN TECHNOLOGIES FOR THE PRODUCTION OF PLATINUM METALS
17-006	Pikulín I.C.	PREDICTING THE STABILITY CONSTANT OF METAL COMPLEXES USING A GRAPH NEURAL NETWORK
17-007	Sandalov I.P.	ZrCl ₄ AND HfCl ₄ VAPOR PRESSURE ABOVE KCl-AlCl ₃ -MeCl ₄ MELTS
17-008	Safiulina A.M.	EXTRACTION OF RARE METALS WITH A STOICHIOMETRIC BINARY MIXTURE OF ACID PHOSPHORYL PODANDUM AND QUATERNARY AMMONIUM NITRATE
17-009	Sivolap A.A.	SYNTHESIS, CRYSTAL STRUCTURE AND SPECTRAL PROPERTIES OF NEW COMPLEXES OF DIETHYL(2-HYDROXY-3-NITRO-5-ETHYLPHENYL)PHOSPHONATE WITH U(VI) AND Np(VI)
17-010	Stenina I.A.	SURFACE MODIFICATION OF ION EXCHANGE MEMBRANES WITH CERIUM OXIDE
17-011	Chebotov A.Yu.	CHEMICAL ISOTOPE EXCHANGE BETWEEN HYDROGEN AND WATER IN CONTACT DEVICES WITH TUBULAR MEMBRANES
17-012	Slobodskaya S.S.	COMPLEXATION AND EXTRACTION PROPERTIES OF 1,3-BIS(DIPHENYLPHOSPHORYL)-2-OXAPROPANE TOWARDS RARE EARTH ELEMENTS

OCTOBER 9

19. SYMPOSIUM ON MEDICINAL CHEMISTRY

-
- 19-041 **Mosaleva S.P.** NEW COMPLEXES OF Ba²⁺ AND Ca²⁺ WITH CHELATED DERIVATIVES OF BENZODIAZACROWN COMPOUNDS
-
- 19-042 **Nikiforov E.A.** TRANSITION-METAL-FREE C-H FUNCTIONALIZATION OF 2H-IMIDAZOLE N-OXIDES IN THE SYNTHESIS OF BIOACTIVE MOLECULES
-
- 19-043 **Novikova V.O.** REACTIONS OF NITROSYL IRON COMPLEXES WITH MUCIN AND PROSPECTS FOR THEIR ORAL DELIVERY
-
- 19-044 **Novikova V.O.** MECHANISM OF THE REACTION OF LIGAND EXCHANGE FOR GLUTATHIONE IN THE THIOSULFATE NITROSYL IRON COMPLEX
-
- 19-045 **Perfilev M.A.** APPLICATION OF A CONVOLUTIONAL MULTITARGETED NEURAL NETWORK MODEL BASED ON MULTIPLE DOCKING TO PREDICT THE ANXIOLYTIC ACTIVITY OF AMIDES AND AMIDINES OF THE ADAMANTANE SERIES
-
- 19-046 **Pokidova O.V.** NITROSYL IRON COMPLEXES WITH THIOUREA DERIVATIVES: DECOMPOSITION, NO-DONOR ACTIVITY AND EFFECT ON CA²⁺-ATPASE OF SARCOPLASMIC RETICULUM
-
- 19-047 **Pokidova O.V.** NITROSYL IRON COMPLEXES WITH THIOUREA DERIVATIVES: DECOMPOSITION, NO-DONOR ACTIVITY AND EFFECT ON CA²⁺-ATPASE OF SARCOPLASMIC RETICULUM
-
- 19-048 **Pugachev M.V.** ANALGETIC AND ANTI-INFLAMMATORY ACTION OF BIFARMACOPHORIC PRODRUGS BASED ON PYRIDOXINE
-
- 19-049 **Razuvaeva Yu.S.** SUPRAMOLECULAR PARTICLES BASED ON VIOLOGEN CALIX₄RESORCIN AND SODIUM ALGINATE AS DRUG NANOCONTAINERS
-
- 19-050 **Rempel S.V.** COLLOIDAL QUANTUM DOTS FOR BIOLOGY AND MEDICINE.
-
- 19-051 **Savinykh P.E.** COPPER(II) COMPLEXES WITH DIPHENYLPHOSPHINIC ACID AND 1,10-PHENANTHROLINE / 2,2"-BIPYRIDINE DERIVATIVES: SYNTHESIS AND CYTOTOXIC PROPERTIES
-

OCTOBER 9

19. SYMPOSIUM ON MEDICINAL CHEMISTRY

19-052	Saks E.E.	SYNTHESIS AND ANTIHYPOXIC ACTIVITY OF 1-SUBSTITUTED 5-SULFONYLTETRAZOLES
19-053	Salakhov T.L.	SYNTHESIS AND PHARMACOLOGICAL ACTIVITY STUDY OF A SERIES OF 1,3,5-TRISUBSTITUTED 1H-1,2,4-TRIAZOLES
19-054	Samoilenko E.A.	ANTIPHYTOPATHOGENIC AND CYTOSTATIC ACTIVITY OF d-METAL FURANCARBOXYLATE COMPLEXES
19-055	Sapozhnikov S.V.	SYNTHESIS AND ANTIBACTERIAL ACTIVITY OF BIS-, TRIS- AND TETRAKIS-AMMONIUM COMPOUNDS BASED ON VITAMIN B6
19-056	Sedov A.N.	ANTIBACTERIAL AND ANTIFUNGAL ACTIVITY OF ALPHA HYDROXYPHOSPHONATES
19-057	Seferyan M.A.	THE SYNTHESIS AND ANTIMICROBIAL POTENTIAL OF A NEW GENERATION OF BIS-QUATERNARY AMMONIUM COMPOUNDS.
19-058	Sibgatullina T.I.	DESIGN OF MOLECULES WITH DESIRED PROPERTIES AND PREDICTION OF THE ROUTE OF THEIR SYNTHESIS
19-059	Silantev V.E.	NANOPARTICLES BASED ON POLYSACCHARIDES WITH DIFFERENT STRUCTURES FOR DRUG DELIVERY AGAINST BRAIN DISEASES
19-060	Skarzhevskii Yu.A.	ASSEMBLY OF NEW HYBRID HETEROCYCLIC NO-DONORS
19-061	Stepovich M.A.	USING THE GAS DISCHARGE VISUALIZATION METHOD TO ASSESS THE STRUCTURAL ORGANIZATION OF AQUEOUS SOLUTIONS OF DRUGS
19-062	Sultanova R.M.	SYNTHESIS AND PROPERTIES OF ESTERS BASED ON OXYMETHYL-1,3-DIOXACYCLOALKANES
19-063	Tumanov Yu.V.	QUANTUM DOTS IN MODERN RESEARCH: MEDICINE, DIAGNOSTICS, ECOLOGY
19-064	Uvarova M.A.	CHEMICAL DESIGN OF BIOLOGICALLY ACTIVE HETEROMETALLIC COMPLEXES OF TRANSITION METALS

OCTOBER 9

19. SYMPOSIUM ON MEDICINAL CHEMISTRY

-
- 19-065 **Usanev A.Yu.** DEVELOPMENT OF METHODS FOR THE SYNTHESIS OF CONJUGATES OF AMPHIPHILIC PHOTSENSITISERS WITH GLYCOLYSIS INHIBITORS
-
- 19-066 **Uspenskaya A.A.** SYNTHESIS OF FLUORESCENT DIAGNOSTIC CONJUGATES BASED ON LIGANDS OF PROSTATE SPECIFIC MEMBRANE ANTIGEN
-
- 19-067 **Fatykhova A.A.** FORWARD SYNTHESIS PLANNING BASED ON MONTE-CARLO TREE SEARCH
-
- 19-068 **Fedina E.S.** DEVELOPMENT OF A NEW APPROACH TO OBTAINING A KEY INTERMEDIATE FOR THE SYNTHESIS OF THE ACTIVE PHARMACEUTICAL SUBSTANCE OF THE DRUG SELEXIPAG
-
- 19-069 **Frolov N.A.** SYNTHESIS, PHYSIO-CHEMICAL AND MICROBIOLOGICAL EVALUATION OF SURFACTANTS SYNTHESIZED FROM NAPHTHALENE AND PYRIDINE MOIETIES.
-
- 19-070 **Tsaplin G.V.** SYNTHESIS OF NEW 3-CINNAMYLTHIO-1,2,4-TRIAZOLES WITH FUNGICIDAL AND ANTHELMINTIC ACTIVITY
-
- 19-071 **Chikanova E.S.** DYNAMICS OF IN VITRO DEGRADATION OF POLYMER COMPOSITE GRANULES FROM CHITOSAN, CARBOXYMETHYLCELLULOSE, PHOSPHATES AND CALCIUM SILICATES IN A MODEL BIOLOGICAL ENVIRONMENT
-
- 19-072 **Chugunova E.A.** DIVERSE BIOLOGICAL ACTIVITY OF BENZOFUROXAN/ STERICALLY HINDERED PHENOLS HYBRIDS
-
- 19-073 **Shaikhutdinov I.Kh.** METRONIDAZOLE LOADING IN MIL-101(FE) AND INVESTIGATION OF RELEASE IN VARIOUS BODY FLUIDS
-
- 19-074 **Shestopalov M.A.** PHOTOACTIVE WATER-SOLUBLE CLUSTER COMPLEX $\{Mo_6I_8\}(S_2O_3)_6^{8-}$, HAVING A CYTOSTATIC EFFECT
-
- 19-075 **Shmaneva N.T.** SYNTHESIS AND MULTI-PURPOSE BIOLOGICAL ACTIVITY OF "HYBRID" TETRAZOLE-CONTAINING COMPOUNDS
-
- 19-076 **Shutkov I.A.** BEHAVIOR AND ANTITUMOR ACTIVITY OF RUTHENIUM METALLACYCLES WITH PYRIDONE LIGANDS
-

OCTOBER 9

19. SYMPOSIUM ON MEDICINAL CHEMISTRY

19-077	Yunin M.A.	DEVELOPMENT OF LC-MS/MS METHODS FOR THE ASSESSMENT OF ADME PROPERTIES OF A NEW POTENTIAL INHIBITOR OF BACTERIAL CYSTATHIONINE GAMMA-LYASE
19-078	Yaryzhnov K.A.	NUCLEOPHILIC C-H FUNCTIONALIZATION IN THE SYNTHESIS OF CARBONITRILE DERIVATIVES OF IMIDAZOLES
19-079	Tursunov Zh.I.	DETERMINATION OF ACUTE TOXICITY OF CISTANCHE MONGOLICA PLANT EXTRACT IN MICE
19-080	Marusich I.V.	THE FEATURES OF ALKYLATION OF NEW 5-R-AMINO1,2,4TRIAZOLO1,5-APYRIMIDINE-7-ONES AND THE INVESTIGATION OF THEIR ANTICANCER ACTIVITY

OCTOBER 10

SECTION 1	
Fundamental bases of chemical science	249
SECTION 2	
Chemistry and technology of materials	254
SECTION 4	
Resource saving, environmental safety and chemical-technological processes in circular economy	263
SECTION 5	
Chemistry of fossil and renewable hydrocarbon resources	267
SECTION 6	
Analytical chemistry: new methods and tools for chemical research and analysis	269
SECTION 8	
Polymers and polymeric materials (including 2nd International Symposium “Modern Trends in Dendrimer Chemistry and Applications”)	273
SYMPOSIA	
11. Symposium on chromatography	276
13. Actual problems of energy conversion in lithium electrochemical systems	279
16. Symposium on nuclear chemistry (BRICS+)	283
18. Development of the mineral resources for Russia’s technological sovereignty	286
21. Symposium on molecular biochemistry	287

OCTOBER 10

SECTION 1. FUNDAMENTAL BASES OF CHEMICAL SCIENCE

1-099	Pavlov D.I.	COORDINATION POLYMERS BASED ON 2,1,3-BENZOTHIADIAZOLE DERIVATIVE FOR BENZENE CONTENT DETERMINATION IN CYCLOHEXANE
1-100	Pavlova V.V.	SYNTHESIS, LUMINESCENT AND COORDINATION PROPERTIES OF NOVEL DI(AZOL-1-YL)2,1,3-BENZOXADIAZOLES
1-101	Pershin A.A.	SYNTHESIS OF NEW ARYLSUBSTITUTED IMIDAZOLE-N-OXIDES USING ARYLDIAZONIUM SALTS
1-102	Pestova O.N.	THE INFLUENCE OF THE METAL NATURE ON THE STRUCTURE AND DISSOLUTION THERMAL EFFECTS OF LITHIUM DOUBLE CHLORIDES
1-103	Podrugina T.A.	PHOSPHONIUM-IODONIUM YLIDES: THROUGH THE VARIETY OF FORMS TO THE VARIETY OF PROCESSES
1-104	Pomogailo D.A.	PHOTOCHEMICAL TRANSFORMATIONS OF RADICAL CATIONS OF ESTERS AND OXIRANES IN FROZEN FREON MATRICES
1-105	Popkov M.A.	PEROXIDASE-LIKE ACTIVITY OF CE02 SOLS STABILISED BY ANTIOXIDANTS
1-106	Popova T.V.	COMPLEX COMPOUNDS OF NICKEL(III) AND COBALT(III) WITH ALIPHATIC POLYAMINES
1-107	Potapov I.D.	MUTUAL INFLUENCE OF STRUCTURAL FRAGMENTS IN PHOSPHONIUM-IODONIUM YLIDES AND ALKYNES ON THE CHEMOSELECTIVITY OF THE HETEROCYCLIZATION REACTION
1-108	Prolomov I.V.	FROM HUMOROUS POST TO DETAILED QUANTUM-CHEMICAL STUDY: ISOCYANATE SYNTHESIS REVISITED
1-109	Pronin A.S.	NOVEL TYPES OF RHENIUM CLUSTER COMPLEXES
1-110	Proskurina O.V.	FORMATION OF NANOCRYSTALS OF COMPLEX OXIDES UNDER "SOFT CHEMISTRY" CONDITIONS
1-111	Rasskazova E.E.	STUDY OF THE INTERACTION OF THE ANION [B10H9O(CH2)4O]- WITH AMINO ALCOHOLS

OCTOBER 10

SECTION 1. FUNDAMENTAL BASES OF CHEMICAL SCIENCE

-
- 1-112 **Rizbaeva T.S.** SYNTHESIS OF NEW PHOSPHORYLATED PYRROLIZIDINE DERIVATIVES
-
- 1-113 **Romanenko N.R.** SYNTHESIS AND STUDY OF THE MAGNETIC PROPERTIES OF TRINUCLEAR COMPLEXES BASED ON METAL PHTHALOCYANINES WITH VARIOUS AXIAL LIGANDS
-
- 1-114 **Ryabchikova M.N.** RECEIVING AND APPLYING CLOSO-BORANE ANIONS AND NATURAL AMINO ACIDS IN BNCT
-
- 1-115 **Sadykova Yu.M.** TRIFLUOROACETIC ACID – A UNIVERSAL MEDIUM FOR IMPLEMENTING NEW PHOSPHOLKYLATION REACTIONS OF AROMATIC COMPOUNDS
-
- 1-116 **Saifutdinova Yu.M.** AN EFFECTIVE SYNTHETIC STRATEGY TO THE PREPARATION OF SUBSTITUTED PYRIDINES BY THE INTERACTION OF PYRAZINES WITH 2,5-NORBORNADIENE
-
- 1-117 **Safonova E.A.** BIOCOMPONENTS PARTITIONING IN MESOSCOPIC FLUIDS CONTAINING CHAIN AMPHIPHILIC MOLECULES OF DIFFERENT STRUCTURE
-
- 1-118 **Sakhonenkova A.P.** PREPARATION OF TECHNETIUM PENTACARBONYL HYDRIDE
-
- 1-119 **Serov N.Yu.** USE OF ROBOTICS IN CHEMICAL SYNTHESIS
-
- 1-120 **Serova V.A.** NEW ALUMINUM AND GALLIUM COMPLEXES AS INITIATORS FOR POLYMERIZATION OF CYCLIC ESTERS
-
- 1-121 **Sidunets Yu.A.** SYNTHESIS OF NOVEL [1,2,5]OXADIAZOLO[3,4-d][1,2,3] TRIAZINONES
-
- 1-122 **Simonova V.M.** THE CATALYTIC OXIDATION OF TRIPHENYLPHOSPHINE BY MOLYBDENUM- AND TUNGSTEN-CONTAINING COMPLEXES
-
- 1-123 **Sirotkin O.S.** D.I. MENDELEEV'S SYSTEM OF ATOMS AND THE SYSTEM OF CHEMICAL COMPOUNDS OF ELEMENTS - THE MODERN FOUNDATION OF THE "ATOMIC-MOLECULAR DOCTRINE"
-

OCTOBER 10

SECTION 1. FUNDAMENTAL BASES OF CHEMICAL SCIENCE

-
- 1-124 **Sirotkin O.S.** COMPONENTS OF HOMO- AND HETERONUCLEAR RELATIONSHIPS OF CHEMICAL ELEMENTS OF THE PERIODIC SYSTEM OF D.I. MENDELEEV IN THE FRAMEWORK OF THEIR UNIT (MIXED) MODEL
-
- 1-125 **Smirnov A.S.** CHALCOGENIC BONDS WITH ISOCYANIDES
-
- 1-126 **Sokolov A.A.** THE RELATIONSHIP BETWEEN ENTHALPY AND VOLUME CHANGES ON MELTING OF ORGANIC NON-ELECTROLYTES
-
- 1-127 **Stepnova A.F.** CAVITATION EFFECT ON HYDROBIONTS
-
- 1-128 **Strelnik I.D.** COPPER(II) COMPLEXES WITH CYCLIC AMINOMETHYLPHOSPHINES – A PATH TO RATIO-METRIC LUMINESCENT THERMOMETRY
-
- 1-129 **Tereshkina A.A.** THE SYNTHESIS OF 4-PYRONE-3-CARBOXYLIC ACIDS AND THEIR ENAMINODIONES-BASED DERIVATIVES
-
- 1-130 **Titov A.A.** DESIGNING LUMINESCENT GROUP 11 METAL COMPLEXES WITH PYRAZOLE OR PYRAZOLATE LIGANDS
-
- 1-131 **TiShchenko E.A.** PREPARATION AND PROPERTIES OF 5-ALKYL-SULFONYL- AND 5-ALKYL-SULFINYL-1H-TETRAZOLES
-
- 1-132 **Tuguldurova V.P.** MECHANISM OF ALLANTOIN FORMATION REACTION: THEORETICAL AND EXPERIMENTAL STUDIES
-
- 1-133 **Tyupina M.Yu.** NOVEL «2+1» TRICARBONYL COMPLEXES OF TECHNETIUM-99,99M AND RHENIUM WITH FATTY ACIDS
-
- 1-134 **Urazaeva K.V.** THERMODYNAMIC STABILITY, LABILITY AND STRUCTURE OF HOMO- AND HETEROLIGAND COMPLEXES OF OXOVANADIUM(IV) WITH AROMATIC N-DONORS AND AMINO ACIDS
-
- 1-135 **Filatov E.Yu.** FORMATION OF METASTABLE BIMETALLIC SOLID SOLUTIONS IN Cu-Rh, Cu-Ru AND Ni-Ru SYSTEMS DURING THERMAL DECOMPOSITION OF COMPLEX COMPOUNDS
-

OCTOBER 10

SECTION 1. FUNDAMENTAL BASES OF CHEMICAL SCIENCE

1-136	Filippov I.P.	DBU-PROMOTED TRANSFORMATIONS OF 4-ALKYL-2-AZABUTA-1,3-DIENES INTO DERIVATIVES OF PYRROLE AND 1H-CYCLOPENT[C]PYRID-1-ONE
1-137	Frolov D.S.	MACHINE LEARNING PREDICTION OF QUANTUM CHEMICAL DESCRIPTORS OF CHLORINATED POLYCYCLIC AROMATIC HYDROCARBONS
1-138	Khaibrakhmanova D.R.	SERUM ALBUMINS FIBRIL FORMATION IN THE PRESENCE OF LIGANDS WITH DIFFERENT AFFINITY
1-139	Kharlamova A.D.	RADICAL BIFUNCTIONALIZATION OF OLEFINS UNDER VISIBLE LIGHT IRRADIATION
1-140	Khchoyan A.G.	RATIOMETRIC SINGLET OXYGEN SENSOR BASED ON BODIPY-DPA DYAD
1-141	Tsaloev A.T.	SYNTHESIS OF CHIRAL α -AMINO ACIDS AND THEIR DEUTERATED ANALOGUES USING THE MICHAEL REACTION
1-142	Chernichenko N.M.	DANSYL-CONTAINING LINEAR AND MACROCYCLIC POLYOXADIAMINES AS FLUORESCENT DETECTORS OF METAL CATIONS
1-143	Shaidullin R.R.	HIGH TEMPERATURE RAPID AND ECOLOGICAL SYNTHESIS OF STABLE DIARYLPYRAZOLES (1,5) FROM (1,3) AS A METHOD FOR PERIPHERAL DIVERSIFICATION OF PYRAZOLE FRAGMENT IN MOLECULES
1-144	Shestakov A.F.	QUANTUM-CHEMICAL MODELING OF THE STRUCTURE AND FORMATION ENERGY OF ADDUCTS OF WATER-SOLUBLE FULLEREN DERIVATIVES WITH THERAPEUTICALLY SIGNIFICANT ANTIOXIDANTS
1-145	Shibaeva K.O.	SYNTHESIS AND CYTOTOXIC EVALUATION OF DIHETARYLMETHANES DERIVED FROM 3,3-DIETHOXY-1-PROPANE DERIVATIVES
1-146	Shishmakova E.M.	MULTIFUNCTIONAL SILICA CARRIERS: SYNTHESIS ON HYBRID TEMPLATES, STRUCTURE AND PROPERTIES

OCTOBER 10

SECTION 1. FUNDAMENTAL BASES OF CHEMICAL SCIENCE

-
- 1-147 **Shuba A.A.** ON THE STUDY OF VAPOR PRESSURE OVER DILUTE AQUEOUS SOLUTIONS OF SOME VOLATILE COMPOUNDS
-
- 1-148 **Erdeli K.E.** SYNTHESIS OF NEW CARBORANYL-CARBENE COMPLEXES OF RHODIUM
-
- 1-149 **Yui S.** SENSOR PROPERTIES OF LUMINESCENT COORDINATION POLYMERS BASED ON FLEXIBLE POLYCARBOXYLIC ACIDS
-
- 1-150 **Yakovlev I.A.** NEW METHODS FOR STUDYING THE PHOTOCHEMICAL AND BIOLOGICAL PROPERTIES OF RUTHENIUM NITRO-NITROSOCOMPLEXES
-
- 1-151 **Yaremenko I.A.** THE MYSTERIOUS WORLD OF ORGANIC PEROXIDES
-
- 1-152 **Sidorov D.V.** BEGINNING OF PYROLYTIC DECOMPOSITION OF METHYLSILANE AND METHYLCHLOROSILANE
-

OCTOBER 10

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

2-189	Malyavina Ya.M.	RESEARCH OF PERMEABILITY OF LCP FILLED WITH BASALT PRODUCTION WASTES
2-190	Ostroushko A.A.	INTERACTION THERMODYNAMICS OF HEXANE WITH CERIUM DIOXIDE
2-191	Ostroushko A.A.	INTERACTION THERMODYNAMICS OF HEXANE WITH CERIUM DIOXIDE
2-192	Panasina T.V.	POLYMERIC COORDINATION COMPOUNDS OF SOME TRANSITION METALS WITH E-CAPROLACTAM AND NICOTINAMIDE
2-193	Pasechnik L.A.	METHODS OF SYNTHESIS OF Sc-DOPED ZrO ₂
2-194	Patrusheva V.S.	HIGH-TEMPERATURE GLASS CERAMIC COATINGS FOR AVIATION AND ATOMIC INDUSTRIES
2-195	Permyakova A.E.	PECULIARITIES OF NANOMATERIALS SYNTHESIS IN COMBUSTION REACTIONS
2-196	Pershin E.A.	PRODUCTION OF ACTIVATED CARBONS USING NEW TYPES OF RAW MATERIALS
2-197	Pershina M.V.	THE STUDY OF STRUCTURE CHARACTERISTICS OF SOILS ON PERM TERRITORY
2-198	Petrova E.V.	ELECTROCHEMICAL SYNTHESIS OF ALUMINA-ZIRCONIUM OXIDE SYSTEMS PRECURSORS DOPED WITH RARE EARTH ELEMENTS
2-199	Pikalova E.Yu.	HIGHLY-CONDUCTIVE CATHODE SUBLAYERS FOR CeO ₂ -Sm ₂ O ₃ SOLID ELECTROLYTE AS AN EFFECTIVE WAY TO ENHANCE ITS ELECTROCHEMICAL PERFORMANCE
2-200	Pikalova E.Yu.	HIGHLY-CONDUCTIVE CATHODE SUBLAYERS FOR CeO ₂ -Sm ₂ O ₃ SOLID ELECTROLYTE AS AN EFFECTIVE WAY TO ENHANCE ITS ELECTROCHEMICAL PERFORMANCE
2-201	Pisarev S.M.	STRENGTHENING OF TITANIUM COMPOSITE BY MEDIUM-ENTROPY CERAMICS (W, Ti, Ta) ₂ C OBTAINED BY SPARK PLASMA SINTERING METHOD

OCTOBER 10

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

-
- 2-202 **Pleshakov G.A.** OPTIMIZATION OF THE ANNEALING PROTOCOL TO INCREASE THE HIGH-TEMPERATURE STABILITY OF Pt-Rh/Zr FILMS
-
- 2-203 **Polunina A.O.** INFLUENCE OF THE TWO-COMPONENT DISPERSE PHASE ON THE PROPERTIES OF CERAMIC COATINGS FORMED BY PEO ON MAGNESIUM ALLOY ML10
-
- 2-204 **Ponomarev A.V.** DIRECT EFFECT OF RADIATION ON ACETYLACETONE AND HEXAFLUORACETYLACETONE
-
- 2-205 **Potapova A.P.** SYNTHESIS AND PROPERTIES OF 3-AZINYLCOUMARINE DYES
-
- 2-206 **Pokhorenko A.S.** CERAMIC FORMING ORGANOMAGNESIUMOXANEALUMOXANES, MODIFIED WITH HAFNIUM AND SILICON: SYNTHESIS, PROPERTIES, PYROLYSIS
-
- 2-207 **Preobrazhenskii I.I.** CHANGES IN THE CRITICAL CURRENT VALUES OF SUPERCONDUCTING MATERIALS AFTER MECHANICAL LOADS
-
- 2-208 **Pripakhailo A.V.** RHEOLOGICAL PROPERTIES OF POLYMER COMPOSITIONS BASED ON POLYACRYLONITRILE AND PETROLEUM ASPHALTENES
-
- 2-209 **Prokhorova T.Yu.** PRODUCTION OF CAPACITOR TANTALUM POWDERS BY CALCIUM VAPOR REDUCTION OF Ta₂O₅
-
- 2-210 **Prokhortsev V.V.** SYNTHESIS AND CHARACTERISTICS OF POLYALUMOCARBOSILANE
-
- 2-211 **Raiskaya E.A.** SYNTHESIS OF CARBON MATERIAL WITH FOAM STRUCTURE FROM AVAILABLE RAW MATERIALS FOR OBTAINING ADSORBENTS AND CATALYSTS
-
- 2-212 **Raskildina G.Z.** PREPARATION AND APPLICATION OF PHENOLS CONTAINING CYCLOACETAL AND GEM-DICHLOROCYCLOPROPANE FRAGMENT
-
- 2-213 **Pesternikova G.G.** SYNTHESIS OF MESOPOROUS SILICA GEL FOR USE AS A CATALYST CARRIER
-

OCTOBER 10

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

2-214	Rastorguev V.L.	CERAMIC MATRIX FROM BORIC ACID PRODUCTION WASTE FOR CO-60 IMMOBILIZATION
2-215	Rekhman Z.A.	STUDY OF TECHNOLOGICAL PARAMETERS INFLUENCE ON THE STABILITY OF SELENIUM NANOPARTICLES STABILIZED BY PROTEINS
2-216	Rodaev V.V.	EMPLOYING NANOSCALE ADDITIVES TO CONTROL THE ICE STRENGTH
2-217	Romanchenko A.S.	THE STUDY OF ELECTROCHEMICAL BEHAVIOR OF SYNTHETIC VALLERIITES
2-218	Rudakovskaya P.G.	NEW MATERIALS BASED ON MICROBUBBLES FOR ULTRASONIC IMAGING AND THERANOSTICS
2-219	Rudenko M.A.	MODELING CHEMICAL STABILITY AND SEARCHING FOR NEW MATRIXES FOR IMMOBILIZATION
2-220	Ryumin M.A.	STUDY OF THERMODYNAMIC PROPERTIES COMPLEX EUROPIUM OXIDES WITH PYROCHLORE STRUCTURE
2-221	Salimov I.E.	MODERN FIBROUS HEAT AND SOUND INSULATION MATERIAL FOR CIVIL AVIATION
2-222	Samoilov V.M.	CORROSION RESISTANCE OF HIGH-ENTROPY ALLOYS BASED ON IRON SUB-GROUP METALS, DOPED WITH REFRACTORY METALS
2-223	Safonov T.S.	DEVELOPMENT AND ANALYSIS OF NEW METHOD FOR FABRICATING ELECTROCALLY CONDUCTIVE STRUCTURES ON PLASTIC SUBSTRATE USING LASER MODIFICATION TECHNIQUE
2-224	Svotin A.A.	BIOFLAVONOIDS-BASED GLASS-LIKE MATERIAL
2-225	Sgibnev E.M.	Na ⁺ -Ag ⁺ ION EXCHANGE TECHNOLOGY FOR GLASS-CERAMIC PHOTACATALYSTS WITH HYBRID Ag-AgBr NANOSTRUCTURES
2-226	Sevostyanov M.A.	THE EFFECT OF ANNEALING TEMPERATURE ON THE MICROHARDNESS OF TITANIUM ALLOYS

OCTOBER 10

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

-
- 2-227 **Seleznev Yu.A.** SYNTHESIS AND PHOTOPHYSICAL PROPERTIES OF PENTAFLUOROPHENYL-4H-IMIDAZOLES
-
- 2-228 **Selivanova N.M.** BIOACTIVE LIGANDS BASED ON 1,2,3-TRIAZOLES WITH LANTHANIDE COMPLEXES FOR BIOIMAGING
-
- 2-229 **Seliverstov E.S.** MECHANOCHEMICAL SYNTHESIS AND CATALYTIC ACTIVITY OF A NEW MgNiCo/AlFeY HIGH-ENTROPY LAYERED DOUBLE HYDROXIDE
-
- 2-230 **Sereda V.A.** ONE-STEP SYNTHETIC INTERCONVERSIONS OF 1,2,5-OXADIAZOLES INTO OTHER AZOLES
-
- 2-231 **Seryi P.V.** SYNTACTIC FOAM BUOYANCY ELEMENTS FOR UNDERWATER EQUIPMENT
-
- 2-232 **Simonenko E.P.** DEGRADATION FEATURES OF HfB₂-SiC CERAMIC MATERIALS IN THE SHORT-TERM EXPOSURE OF CO₂-PLASMA
-
- 2-233 **Sokolova A.D.** THE ANTIAROMATIC NUCLEOPHILIC SUBSTITUTION IN HEXA(METHOXYCARBONYL)PYRIDINIUM-1-YLCYCLOHEPTATRIENIDE
-
- 2-234 **Solodovnikova P.A.** DEVELOPMENT AND EXPANSION OF TECHNOLOGY FOR PRODUCING THERMOSTABLE ALUMINUM OXIDE
-
- 2-235 **Son A.G.** PEROVSKITE NANOPARTICLES: SYNTHESIS, OPTICAL PROPERTIES AND POTENTIAL APPLICATION
-
- 2-236 **Spiridonova M.P.** VULCANIZATION AT THE INTERFACE OF SUPRAMOLECULAR FORMATIONS AND CO-VULCANIZATION OF RUBBERS
-
- 2-237 **Starostina I.A.** THERMAL EXPANSION OF SCANDIUM-DOPED BARIUM STANNATE
-
- 2-238 **Streltsov A.A.** SYNTHESIS OF THE FIRST REPRESENTATIVES OF TRISPYROPOLYHETEROCYCLIC PYRROLIDINE DERIVATIVES
-
- 2-239 **Sukhorukova V.A.** ANTI-CORROSION PROTECTION OF GALVANIZED STEEL WITH CHROMATE-FREE CONVERSION COATINGS
-

OCTOBER 10

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

2-240	Sukhorukova V.A.	ANTI-CORROSION PROTECTION OF GALVANIZED STEEL WITH CHROMATE-FREE CONVERSION COATINGS
2-241	Tikhonova A.A.	THE PRODUCTION OF A NANOSTRUCTURED NICKEL-PALLADIUM CATALYST USING THE REPLICA METHOD.
2-242	Tkachuk V.A.	THE EFFECT OF A BONDING ADDITIVES ON THE ABILITY TO FORM A CALCIUM PHOSPHATE LAYER IN VITRO ON THE SURFACE OF MATERIALS BASED ON TOKEM-250 FOR THE TiO ₂ -SiO ₂ -P ₂ O ₅ /ZnO SYSTEM
2-243	Tobolev P.D.	SPECIAL CEMENTS BASED ON FERRITIC CALCIUM SULFOALUMINATE CLINKER
2-244	Tokarev O.V.	A POTENTIOMETRIC STUDY OF GALLIUM CONTAINING MELTS BASED ON ALKALI METAL CHLORIDES IN THE PRESENCE OF MOLYBDENUM METAL IN THE SYSTEM
2-245	Trishin Yu.G.	THE INTRODUCTION OF SULFUR-CONTAINING PHARMACOPHORE GROUPS INTO THE BETULIN MOLECULE AS A PATHWAY TO NEW BIOLOGICALLY ACTIVE COMPOUNDS
2-246	Trofimov E.A.	NEW HIGH ENTROPY OXIDES WITH THE PYROCHLORE STRUCTURE
2-247	Trofimov E.A.	NEW HIGH ENTROPY OXIDES WITH THE PYROCHLORE STRUCTURE
2-248	Tumbinskii K.A.	PRODUCTION OF ULTRA-THIN HYBRID MATERIALS BASED ON PLANAR INORGANIC PARTICLES AND POLYDIACETYLENE DERIVATIVES FOR ORGANIC ELECTRONICS
2-249	Udoratina E.V.	CHITIN AND CELLULOSE NANOCRYSTALS MODIFIED BY THIOL GROUPS
2-250	Ulyanova Yu.V.	PREPARATION OF CARBOXYLATED POLYSTYRENE MICROSPHERES UNDER MICROFLOW CONDITIONS
2-251	Fazylzyanova G.R.	TECHNOLOGICAL METHODS FOR PRODUCING STABLE BITUMEN BINDERS MODIFIED BY RECYCLE POLYETHYLENES

OCTOBER 10

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

2-252	Fatykhov R.F.	NOVEL APPROACH TO THE SYNTHESIS OF QUATERPYRIDINE LIGANDS
2-253	Fedoraev I.I.	OXIDATION OF THE COBALT-NIOBIUM AND COBALT-TANTALUM ALLOYS ALLOYED WITH RHENIUM IN AIR AT 1375 K
2-254	Fedoseeva A.A.	MODIFIED POLYDIACETYLENES BASED ON SULFONATE (TIA) CALIX4ARENAS
2-255	Filippov D.V.	SORBENTS FOR LANTHANIDE IONS BASED ON Co(II) - MOF"s
2-256	Filippova A.D.	ANTIOXIDANT ACTIVITY OF CERIA SOLS STABILIZED BY BIOACTIVE LIGANDS
2-257	Filonova E.A.	MODELING AND CHARACTERIZATION OF THE MIDDLE- AND HIGH-ENTROPY LA _{0.6} SR _{0.4} FE _{0.8} CO _{0.2} O ₃ -BASED PHASES
2-258	Kharkova S.A.	THERMODYNAMICS AND KINETICS OF THE ISOTOPIC EXCHANGE REACTION BETWEEN WATER AND CHLOROFORM
2-259	Khaustov S.V.	THE EFFECT OF SHOCK-COMPRESSED GAS ON HEAT TRANSFER PROCESSES IN THE WELDING GAP IN FRONT OF THE CONTACT POINT DURING EXPLOSION WELDING
2-260	Kholodkov D.N.	SILICA-BASED AEROGELS WITH TUNABLE PROPERTIES: THE HIGHLY EFFICIENT AMPHOTERIC F-CONTAINING CATALYSTS FOR PREPARATION AND LOOK INSIDE THEIR STRUCTURE
2-261	Khoroshavtseva N.V.	THE EFFECT OF THE PRODUCTION METHOD ON THE PROPERTIES OF POWDERS OF THE SAME COMPOSITION OF ZrO ₂ -4 MOL. % Y ₂ O ₃ -4 MOL. % Sc ₂ O ₃
2-262	Khoroshavtseva N.V.	THE EFFECT OF THE PRODUCTION METHOD ON THE PROPERTIES OF POWDERS OF THE SAME COMPOSITION OF ZrO ₂ -4 MOL. % Y ₂ O ₃ -4 MOL. % Sc ₂ O ₃
2-263	Khuziakmetov R.Kh.	THE TECHNOLOGY OF PROLONGED NITROGEN AND COMPLEX FERTILIZERS USING WASTE FROM VARIOUS INDUSTRIES AND EVALUATING THEIR AGROCHEMICAL EFFICIENCY

OCTOBER 10

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

-
- 2-264 **Tsvetkova N.S.** INVESTIGATION OF CATHODE MATERIAL - PROTON-CONDUCTING ELECTROLYTE INTERPHASE: CATION INTER-DIFFUSION AND ELECTROCHEMICAL PROPERTIES
-
- 2-265 **Tsygankova D.I.** STUDY OF SOLID SOLUTIONS $K_{2-x}Cs_xZn_3(P_2O_7)_2$
-
- 2-266 **Tsyrulnikova A.S.** THE USE OF PERFLUORALKENES IN THE SYNTHESIS OF FLUORINATED ETHERS
-
- 2-267 **Chalyi V.A.** BUILDING A DIGITAL TWIN OF AN ICP-CVD PROCESS
-
- 2-268 **Chebotar R.A.** SYNTHESIS OF PERFLUOROCARBOXYLIC ACIDS TRIMETHYLSYLIL AMIDES FROM THE CORRESPONDING ESTERS
-
- 2-269 **Chepurnova S.Yu** SYNTHESIS AND RESEARCHING THE PROPERTIES OF BIOCIDAL MATERIALS BASED ON ORGANOSILICON RAW MATERIALS AND PHMG
-
- 2-270 **Cheptsov D.A.** PHOTOPHYSICAL PROPERTIES OF BORDIFLUORIDE COMPLEXES OF COUMARIN DERIVATIVES
-
- 2-271 **Cherepanova L.A.** STRUCTURAL AND MAGNETIC PROPERTIES OF MECHANOACTIVATED OXIDE $HoMnO_3$
-
- 2-272 **Cherepanova L.A.** STRUCTURAL AND MAGNETIC PROPERTIES OF MECHANOACTIVATED OXIDE $HoMnO_3$
-
- 2-273 **Cherkasova T.G.** CONTROL AND MECHANISM STUDY OF TWO DIMENSIONAL SUBNANO LAYERED SPACE OF NON Pt CARBON BASED OXYGEN REDUCTION CATALYSTS
-
- 2-274 **Chernobrivets V.A.** SPECTRAL PROPERTIES OF ALUMINUM PHTHALOCYANINE IMMOBILIZED ON SILVER NANOWIRES SUBSTRATES
-
- 2-275 **Chernobrivets V.A.** SPECTRAL PROPERTIES OF HYBRID COMPLEXES BASED ON AMMONIUM MANGANESE TUNGSTATE AND PHTHALOCYANINES
-
- 2-276 **Cheshkina D.S.** 1,8- AND 4,5-DIAZAFLUORENYLIDENE DERIVATIVES: SYNTHESIS AND PHYSICO-CHEMICAL PROPERTIES
-

OCTOBER 10

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

- 2-277 **Shagidanova M.I.** INVESTIGATION OF BIOCIDAL PROPERTIES OF ORGANOSILANE GUANIDINE DERIVATIVES
- 2-278 **Shadrina M.A.** CRYSTALLINE STRUCTURE FEATURES AND HIGH-TEMPERATURE PROPERTIES OF SOLID SOLUTIONS $\text{Sr}_{4-x}\text{Y}_x\text{Co}_4\text{O}_{12-\delta}$ ($x = 0.0-0.5$)
- 2-279 **Shalamova A.M.** THE DEFECT FORMATION AND STABILITY OF $\text{LnBaMn}_2\text{O}_{6-\delta}$ ($\text{Ln} = \text{Pr}, \text{Nd}, \text{Sm}$) PEROVSKITES UNDER CHEMOCYCLING CONDITIONS
- 2-280 **Shamsutdinov A.Sh.** COMPOSITE MATERIALS WITH A CORE-SHELL STRUCTURE FOR EFFECTIVE INHIBITION OF COMBUSTION PROCESSES
- 2-281 **Sharapova A.V.** IMPROVEMENT OF DOFETILIDE SOLUBILITY USING CYCLODEXTRINS: SOLUTIONS AND SOLID DISPERSIONS
- 2-282 **Shashurin D.A.** VISUALIZATION OF Ln^{3+} ADSORPTION BY HETERODOPED CARBON NANOMATERIALS USING PHOTON-COUNTING COMPUTED TOMOGRAPHY
- 2-283 **Shevchenko O.G.** PHENOLICS CONJUGATE WITH $\gamma\text{-ALOOH}$ AS EFFECTIVE BIOCOMPATIBLE NANOANTIOXIDANTS
- 2-284 **Sheichenko E.D.** HYBRID MATERIALS BASED ON LAYERED YTTRIUM HYDROXIDE AND PORPHYRINYL PHOSPHONATES AS ADSORBENTS FOR METHYLENE BLUE FROM WATER
- 2-285 **Shentseva I.A.** STRUCTURAL DIVERSITY AND PROPERTIES OF BISMUTH IODIDE COMPLEXES OF DIFFERENT CLASSES
- 2-286 **Shestakova A.I.** HYDROPEROXIDE METHOD FOR THE SYNTHESIS OF PARA-TERT-BUTYLPHENOL AND CYCLOHEXANONE
- 2-287 **Sheshkovas A.Zh.** LOW-TEMPERATURE POLYETHYLENIMINE-BASED COMPOSITE MATERIALS FOR CO_2 ABSORPTION TASKS
- 2-288 **Shishkin E.V.** APPLICATION OF PHOSPHORUS TRICHLORIDE COMPLEX WITH DMAP FOR SINGLE-REACTOR SYNTHESIS OF AMIDES AND AMIDINES WITH PSYCHOTROPIC ACTIVITY

OCTOBER 10

SECTION 2. CHEMISTRY AND TECHNOLOGY OF MATERIALS

2-289	Shuklov I.A.	NEW PRECURSORS FOR THE SYNTHESIS OF SELENIDE AND TELLURIDE COLLOIDAL QUANTUM DOTS
2-290	Shulyak A.T.	SYNTHESIS AND PROPERTIES OF NEW SUBSTITUTED DERIVATIVES OF THE OCTAHYDROTRIBORATE ANION
2-291	Yagovitin R.E.	HIGH-TEMPERATURE MODIFICATIONS AND OXYGEN NONSTOICHIOMETRY OF TERBIUM-BARIUM COBALTITE
2-292	Yakovlev O.A.	SYNTHESIS OF TARGETED LIPID BASED ON FOLIC ACID
2-293	Yaroshenko F.A.	PREPARATION OF NEW SURFACE MODIFIED PARTICLES BASED ON POLYANTIMONIC ACID
2-294	Vainshtein I.A.	OPTICAL PROPERTIES OF GRAPHITE-LIKE CARBON NITRIDE IN A WIDE TEMPERATURE RANGE
2-295	Evdokimov P.V.	3D PRINTED NEW MATERIALS BASED ON MAGNESIUMPHOSPHATES FOR BIOMEDICAL APPLICATIONS
2-296	Kharitonov N.P.	OPTIMIZATION OF HYDROGEN PEROXIDE PRODUCTION REACTOR

OCTOBER 10

SECTION 4. RESOURCE SAVING, ENVIRONMENTAL SAFETY AND CHEMICAL-TECHNOLOGICAL PROCESSES IN CIRCULAR ECONOMY

4-046	Manaenkov O.V.	PRODUCTION OF FUNCTIONALIZED BIOCHARS FROM BIOMASS WASTE
4-047	Markin N.S.	THE RISKS OF LONG-TERM MONAZITE ENRICHMENT TAILINGS STORAGE AND POTENTIALS WAYS OF THEIR RECYCLING
4-048	Medyankina I.S.	FLUOROAMMONIUM TECHNOLOGY OF OBTAINING FUNCTIONAL MATERIALS FROM TECHNOGENIC WASTES
4-049	Milevskii N.A.	HYDROMETALLURGICAL APPROACH TO RECYCLING OF BATTERIES WITH LITHIUM-TITANATE ANODE
4-050	Mikhailova L.Yu.	METALLURGICAL ASSESSMENT OF TECHNOGENIC WASTES FROM FERROMANGANESE PRODUCTION
4-051	Nikitina E.V.	#Н/Д
4-052	Nikolaeva A.D.	SODA PRODUCTION WASTE AS A RAW MATERIAL FOR LOW-TEMPERATURE SYNTHESIS OF WOLLASTONITE
4-053	Novikov D.O.	METHOD OF DISPOSAL OF SULPHIDE-ARSENIC CAKE
4-054	Novotortsev R.Yu.	N-DOPING OF CARBONS, PREPARED FROM RICE HUSK ASH
4-055	Nein Chan Moe	THE USE OF PbO ₂ -BASED ANODES IN THE PRODUCTION OF SODIUM CHLORATES
4-056	Osipenko A.A.	PHYSICO-CHEMICAL BASIS FOR THE SEPARATION OF RADIOACTIVE NOBLE METALS
4-057	Pasechnik L.A.	COMPLEX SULFATES IN HYDROMETALLURGY OF SCANDIUM
4-058	Pesternikova G.G.	REGENERATION OF WASTE MOTOR OILS WITH HIGHLY-SILICON SORBENT
4-059	Petrenko P.I.	PLASMA ARC EJECTOR FOR THE PLASMA TREATMENT OF THE WASTE
4-060	Petrenko P.I.	PLASMA ARC EJECTOR FOR THE PLASMA TREATMENT OF THE WASTE

OCTOBER 10

SECTION 4. RESOURCE SAVING, ENVIRONMENTAL SAFETY AND CHEMICAL-TECHNOLOGICAL PROCESSES IN CIRCULAR ECONOMY

4-061	Pechnikova G.S.	COMPARISON OF OPTICAL CHARACTERISTICS OF DISSOLVED ORGANIC MATTER EXTRACTS AND SEAWATER OF THE ARCTIC SHELF
4-062	Polkovnichenko A.V.	2,2,3,3,4,4,4-HEPTAFLUOROBUTYL ACETATE. SYNTHESIS AND PURIFICATION BY REACTION DISTILLATION METHOD
4-063	Rioeva A.G.	INFLUENCE OF DHA ON ANTICORROSION PROPERTIES OF INHIBITED OLEOGEL COMPOSITIONS
4-064	Roshchin V.E.	ELECTOCHEMICAL PROCESSES IN OXIDES IN THE REDUCTION OF METALS IN METALLURGICAL UNITS
4-065	Rubin E.M.	PROCESSING OF HIGHLY MINERALIZED TECHNOGENIC WASTE
4-066	Salomatin A.M.	EXTRACTION OF LI, FE AND AL FROM SPENT LFP BATTERIES
4-067	Smirnov A.A.	EFFICIENCY OF SEPARATION OF ALCOHOL – ESTER SYSTEMS USING DEEP EUTECTIC SOLVENTS
4-068	Smirnov L.A.	INTEGRATED PROCESSING OF METALLURGICAL SLAG WITH HEAT RECOVERY
4-069	Smorodin K.A.	CONTINUOUS MEMBRANE COLUMN CASCADE - AN ENERGY-EFFICIENT SOLUTION FOR CARBON DIOXIDE CAPTURE FROM FLUE GASES OF THERMAL POWER PLANTS
4-070	Smorodin K.A.	CONTINUOUS MEMBRANE COLUMN CASCADE - AN ENERGY-EFFICIENT SOLUTION FOR CARBON DIOXIDE CAPTURE FROM FLUE GASES OF THERMAL POWER PLANTS
4-071	Smyatskaya Yu.A.	GREEN TECHNOLOGIES IN THE INTEGRATED PROCESSING OF SUNFLOWER MEAL
4-072	Stepnova A.	CAVITATION EFFECT ON HYDROBIONTS
4-073	Strizhak P.A.	INFLUENCE OF HEATING CONDITIONS AND COMPOSITION OF FUEL BLENDS ON PRODUCTS OF THERMAL CONVERSION STAGES

OCTOBER 10

SECTION 4. RESOURCE SAVING, ENVIRONMENTAL SAFETY AND CHEMICAL-TECHNOLOGICAL PROCESSES IN CIRCULAR ECONOMY

4-074	Sudin V.Vi.	THE INFLUENCE OF METAL IONS AND pH OF THE MEDIUM ON THE PROCESS OF HYDROGEN SULFIDE OXIDATION BY IRON SALTS.
4-075	Sulman M.G.	DESILINIZATION OF MAGNETITE CONCENTRATE BY AMMONIUM HYDROFLUORIDE
4-076	Sychev A.V.	CHARACTERISTICS OF GAS-DUST WASTE FROM FERROALLOY PRODUCTION
4-077	Tolstov M.A.	COMPUTATIONAL APPROACH TO ASSESSING COMPLIANCE OF CHEMICAL PROCESSES WITH PRINCIPLES OF GREEN CHEMISTRY
4-078	Tyushnyakov S.N.	IMPROVING THE EFFICIENCY OF USING BAKAL SIDERITES IN STEEL METALLURGY
4-079	Tyushnyakov S.N.	IMPROVING THE EFFICIENCY OF USING BAKAL SIDERITES IN STEEL METALLURGY
4-080	Fedorov S.A.	THE DEVELOPMENT OF PYROMETALLURGICAL TECHNOLOGIES BASED ON THE CHARACTERISTICS OF THE DISPERSED STATE OF MATTER
4-081	Khao Tsze	STATIC AND KINETIC TESTS FOR ASSESSING THE ENVIRONMENTAL IMPACT OF COAL MINING WASTES
4-082	Kharitonova L.D.	RICE HUSK CARBONS MODIFICATION FOR ADSORPTION PROPERTIES IMPROVEMENT
4-083	Kholodkova E.M.	IRREVERSIBLE DISCOLORATION AND DETOXIFICATION OF FOOD DYES
4-084	Khurshkainen T.V.	DEVELOPMENT OF AN COMPLEX TECHNOLOGY FOR PROCESSING FROM PINUS WOOD GREENERY
4-085	Khurshkainen T.V.	DEVELOPMENT OF AN COMPLEX TECHNOLOGY FOR PROCESSING FROM PINUS WOOD GREENERY
4-086	Chikineva T.Yu.	EXTRACTION OF Pr ³⁺ , Nd ³⁺ , Dy ³⁺ AND Tb ³⁺ WITH DEEP EUTECTIC SOLVENTS BASED ON DIALKYLPHOSPHINE ACIDS

OCTOBER 10

SECTION 4. RESOURCE SAVING, ENVIRONMENTAL SAFETY AND CHEMICAL-TECHNOLOGICAL PROCESSES IN CIRCULAR ECONOMY

4-087	Chugunova I.D.	STUDY OF LANDFILL WATER FILTRATE
4-088	Shaikhislam G.	OBTAINING SOILS FOR BIOLOGICAL RECULTIMATION
4-089	Shaposhnik A.V.	GAS ANALYTICAL SENSOR DEVICES FOR CONTINUOUS ENVIRONMENTAL MONITORING
4-090	Yankovskaya N.S.	TECHNICAL CHARACTERISTICS OF MIXED FUELS BASED ON BROWN COAL AND FIR MEAL
4-091	Yankovskii S.A.	TECHNICAL CHARACTERISTICS OF MIXED FUELS BASED ON BROWN COAL AND FIR MEAL
4-092	Smirnov K.I.	ENERGY CONSUMPTION DURING SOLID-PHASE REDUCTION OF IRON FROM ILMENITE CONCENTRATE WITH CARBON AND HYDROGEN

OCTOBER 10

SECTION 5. CHEMISTRY OF FOSSIL AND RENEWABLE HYDROCARBON RESOURCES

-
- 5-001 **Babintseva M.V.** DEVELOPMENT AND IMPLEMENTATION OF THE ALGORITHM CONDUCTING RESEARCH AND EVALUATION THE EFFECTIVENESS OF THE SOLVENT
-
- 5-002 **Bogdanov I.A.** COMBINING HYDROCONVERSION PROCESSES AS A METHOD FOR PRODUCING MOTOR FUELS FROM RENEWABLE HYDROCARBON FEEDSTOCK
-
- 5-003 **Dokuchaeva A.I.** CRITERIA FOR THE PROPENSITY OF COALS TO SPONTANEOUS COMBUSTION, ESTABLISHED IN THE ZONE OF LOW-TEMPERATURE THERMAL DECOMPOSITION
-
- 5-004 **Zarubin D.M.** APPLICATION OF MESOPOROUS POLYMER SORBENTS BASED ON DIVINYLBENZENE AND 4-VINYLBENZYL CHLORIDE FOR HYDROCARBON SEPARATION
-
- 5-005 **Zubkov I.N.** OBTAINING POLYALPHAOLEFIN BASE OILS USING FISCHER-TROPSCH SYNTHESIS OLEFINS BY OXIDATIVE OLIGOMERIZATION
-
- 5-006 **Katasonova O.N.** EXTRACTION DESULFURIZATION OF LIGHT VACUUM GAS OIL WITH DEEP EUTECTIC SOLVENTS IN A MINICHANNEL
-
- 5-007 **Korobkin A.V.** THE USE OF ADDITIVES TO IMPROVE THE PROPERTIES OF WATER-BASED DRILLING FLUIDS
-
- 5-008 **Kochubeev A.A.** TROPICAL RESISTANCE OF UREA GREASES
-
- 5-009 **Maltsev V.V.** OPTIMIZATION OF MODES AND FEEDSTOCK COMPOSITION OF CATALYTIC CRACKING WHEN INVOLVING VEGETABLE FEEDS IN PROCESSING
-
- 5-010 **Manaenkov O.V.** FUNCTIONALIZED POROUS AROMATIC POLYMERS – CATALYTIC SUPPORTS FOR LEVULINIC ACID HYDROGENATION
-
- 5-011 **Nikolskii V.M.** ASSESSMENT OF THE CHEMICAL COMPOSITION OF TUBERS OF ANTHOCYANIN-CONTAINING POTATO VARIETIES IN THE CRNZ OF THE RUSSIAN FEDERATION
-
- 5-012 **Sergeeva D.V.** GAS HYDRATES OBTAINED IN SOLUTIONS OF ALCOHOLS: STABILITY AND COMPOSITION
-

OCTOBER 10

SECTION 5. CHEMISTRY OF FOSSIL AND RENEWABLE HYDROCARBON
RESOURCES

-
- 5-013 **Stepanova E.A.** NEW ASPECTS OF GAS SEPARATION USING HYBRID
TECHNOLOGY BASED ON GAS HYDRATE CRYSTALLIZATION
AND MEMBRANE TECHNOLOGY
-
- 5-014 **Turov Yu.P.** VARIATIONS OF COMPOSITION IN RECOVERABLE OIL AND
WELL PRODUCTIVITY FORECAST
-
- 5-015 **Shcherbakova K.V.** HYDROCHEMICAL METHODS OF RESEARCH AS CRUCIAL
TOOLS OF OIL FIELD EXPLORATION AND DEVELOPMENT
-

OCTOBER 10

SECTION 6. ANALYTICAL CHEMISTRY: NEW METHODS AND TOOLS FOR CHEMICAL RESEARCH AND ANALYSIS

6-107	Volchenkova V.A.	ELEMENTAL ANALYSIS OF PALLADIUM ALLOYS - MATERIALS FOR HYDROGEN ENERGY
6-108	Grigorovich K.V.	APPLICATION OF PHYSICS INFORMED NEURAL NETWORKS FOR PROCESSING THE RESULTS OF FRACTIONAL GAS ANALYSIS
6-109	Feldman Yu.K.	APPLICATION OF THE PDA-OES METHOD ON A GRAND-EXPERT SPARK ATOMIC EMISSION SPECTROMETER FOR OPERATIONAL MONITORING OF NONMETALLIC INCLUSIONS
6-110	Lepilina M.Yu.	RESEARCH OF THE COMPOSITION OF ROLLED ELECTRICAL STEEL BY ATOMIC EMISSION SPECTROMETRY OF GLOW DISCHARGE
6-111	Titova A.D.	ANALYSIS OF TITANIUM ALLOYS BY MP-AES METHOD
6-112	Nosikova E.V.	DEVELOPMENT AND CERTIFICATION OF THE SET REFERENCE MATERIALS OF COMPOSITION ELECTRICAL ANISOTROPIC STEEL
6-113	Yakubenko E.V.	DEVELOPMENT OF A TECHNIQUE FOR THE RAPID DETERMINATION OF SULFIDES IN CONSTRUCTIONAL STEEL BY THE METHOD OF SPARK ATOMIC EMISSION SPECTROMETRY
6-114	Belozherova A.A.	DEVELOPMENT OF ICP-AES METHOD FOR DETERMINING GALLIUM IN METALLURGICAL MATERIALS
6-115	Romanova T.E.	METAL-ORGANIC FRAMEWORKS APPLICATION FOR MERCURY CONCENTRATION AND SPECIATION
6-116	Nesterovich D.S.	LUMINESCENCE OF THE COMPLEX OF Eu(III) WITH AVOBENZONE
6-117	Maksimova V.V.	PRECONCENTRATION OF PLATINUM AND PALLADIUM WITH MAGNETIC SORBENTS IN ANALYSIS OF NATURAL AND TECHNOLOGICAL OBJECT
6-118	Grazhulene S.S.	COMPARISON OF THE EFFECTIVENESS OF SORBENTS OF DIFFERENT ALLOTROPIC FORMS OF CARBON INCLUDING MODIFIED CARBON NANOTUBES
6-119	Pukhova O.E.	FEATURES OF SPECTROPHOTOMETRIC DETERMINATION OF RHODIUM IN SECONDARY RAW MATERIALS
6-120	Petrova Yu.S.	REGULARITIES OF SORPTION OF NOBLE METAL IONS FROM HYDROCHLORIC ACID SOLUTIONS BY POLYVINYLMIDAZOLE DERIVATIVES

OCTOBER 10

SECTION 6. ANALYTICAL CHEMISTRY: NEW METHODS AND TOOLS FOR CHEMICAL RESEARCH AND ANALYSIS

6-121	Belyakovich D.I.	POLYVINYLFORMAL SORBENTS WITH THIOUREA GROUPS FOR THE CONCENTRATION OF PRECIOUS METALS
6-122	Kuznetsova K.Ya.	SEPARATION AND CONCENTRATION OF NOBLE METAL IONS BY SORBENTS BASED ON QUATERNIZED POLYVINYLMIDAZOLES
6-123	Manchich A.N.	DETERMINATION OF THE COMPOSITION OF CRYSTALLINE SILICON BY SPECTRAL METHODS
6-124	Chubarov V.M.	X-RAY FLUORESCENCE ANALYSIS OF SMALL MASS SAMPLES FOR GEOCHEMISTRY, GEOECOLOGY AND ARCHAEOLOGY
6-125	Gustova M.V.	Rb-Sr METHOD AGE DETERMINATION OF GEOLOGICAL SAMPLES USING GAMMA ACTIVATION ANALYSIS
6-126	PechiShchev I.V.	ASSESSMENT OF THE POSSIBILITY OF USING STANDARD REFERENCE SAMPLES OF LITHIUM-BORATE ALLOYS IN X-RAY FLUORESCENCE ANALYSIS OF NATURAL AND TECHNICAL OBJECTS
6-127	Mezhevaya L.Yu.	EXPANDING THE ANALYTICAL CAPABILITIES OF ENERGY DISPERSION X-RAY FLUORESCENCE ANALYSIS OF REFRACTORY METALS
6-128	Krupovich E.S.	DEVELOPMENT OF A SAMPLE PREPARATION TECHNIQUE TO RESEARCH DISTRIBUTION OF TRACE ELEMENTS IN BIOPSY MATERIAL OF RED BONE MARROW BY X-RAY FLUORESCENCE METHOD USING SYNCHROTRON RADIATION IN PATIENTS WITH HEMOBLASTOSES
6-129	Vasilev V.A.	USING THE METHOD OF SYNCHRONOUS FLUORESCENCE SCANNING IN ANALYSIS OF PREMIUM VEGETABLE OILS
6-130	Karimova T.A.	ANALYSIS OF GEOLOGICAL AND TECHNOLOGICAL MATERIALS WITH CLOSED VESSELS DECOMPOSITION IN BOTTOM HEATING RESISTIVE SYSTEMS
6-131	Musina N.S.	NEW METHODS OF SAMPLE PREPARATION FOR IDENTIFYING THE HYDROCARBON COMPOSITION OF CONTAMINATED SOILS
6-132	Babintseva M.V.	NEW ANALYTICAL SOLUTIONS IN THE ANALYSIS OF CHEMICAL REAGENTS OF OIL PRODUCTION

OCTOBER 10

SECTION 6. ANALYTICAL CHEMISTRY: NEW METHODS AND TOOLS FOR CHEMICAL RESEARCH AND ANALYSIS

6-133	Turov Yu.P.	«DATA MINING» ALGORITHMS IN INTERPRETATION RESULTS OF OIL ANALYSIS UNDER UNCONTROLLED UNCERTAINTY IN DATA
6-134	Chaikin D.Yu.	SYNTHESIS AND EXTRACTION OF CARBOSILATES OF RARE EARTH ELEMENTS BY AQUEOUS AND ORGANIC MEDIA
6-135	Usmanova D.O.	NONIONIC OXYETHYLATED SURFACTANT NEONOL AF 9-10 IN EXTRACTION OF METAL IONS
6-136	Malyushevskaya A.	COMPARATIVE EVALUATION OF VARIOUS APPROACHES FOR SUGARS DETERMINATION USING CAPILLARY ELECTROPHORESIS
6-137	Ziangirova E.R.	
6-138	Araslanova A.T.	MULTILAYER COATINGS OF FUSED-SILICA CAPILLARY WALLS FOR ELECTROPHORETIC SEPARATION OF DRUG ENANTIOMERS
6-139	Androsova A.V.	SEPARATION AND PRECONCENTRATION OF BIOLOGICALLY ACTIVE COMPOUNDS BY CAPILLARY ELECTROPHORESIS METHOD USING MODIFIERS BASED ON IMIDAZOLIUM CATION
6-140	Adamova A.A.	NOVEL CATIONIC MODIFIER OF ELECTROPHORETIC SYSTEMS BASED ON A POLYMER WITH A CHIRAL TAG
6-141	Gubin A.S.	AUTOMATED ONLINE MAGNETIC SOLID-PHASE MICROEXTRACTION OF PHENOLIC TOXICANTS
6-142	Polteva A.V.	EXTRACTION-ELECTROPHORETIC SEPARATE DETERMINATION OF SORBIC AND BENZOIC ACIDS
6-143	Polteva A.V.	POLY-N-VINYLMIDAZOLE AS AN AMINO ACIDS EXTRACTANT
6-144	Ermolenko Yu.V.	APPLICATION OF CAPILLARY ELECTROPHORESIS METHOD FOR QUANTITATIVE ANALYSIS OF MICELLAR DOSAGE FORMS BASED ON HYDROPHOBIZED HYALORNIC ACID
6-145	Mishina K.A.	ENSURING UNIFORMITY AND TRACEABILITY OF MEASUREMENTS IN THE FIELD OF ISOTHERMAL TITRATION CALORIMETRY
6-146	Kazartsev Ya.V.	ON METHODOLOGICAL ISSUES OF MELTING POINT MEASUREMENTS OF ORGANIC SUBSTANCES
6-147	Posokhova N.V.	PROCEDURES AIMED AT CONTROL OF KR-85 SOURCES MANUFACTURING AT MAYAK RADIOISOTOPE AND RADIOCHEMICAL PLANTS

OCTOBER 10

SECTION 6. ANALYTICAL CHEMISTRY: NEW METHODS AND TOOLS FOR CHEMICAL RESEARCH AND ANALYSIS

6-148	Voroshilov A.Yu.	METHODOLOGICAL SUPPORT FOR THE CONTROL OF RADIO-PHARMACEUTICALS BASED ON RADIONUCLIDE RADIUM-223 AT E.L. MURASHOV'S MAYAK PRODUCTION ASSOCIATION
6-149	Smirnova E.V.	EXPANSION OF THE LIBRARY OF MODEL SPECTRA OF RADIO-NUCLIDES FOR THEIR IDENTIFICATION AND ACTIVITY MEASUREMENTS IN SAMPLES OF COMPLEX COMPOSITION USING A LIQUID SCINTILLATION SPECTROMETRIC RADIOMETER OF ALPHA AND BETA RADIATION
6-150	Silaeva V.A.	STUDY OF THERMODYNAMICS SORPTION OF COPPER IONS (II) BY A SORBENT OF PLANT ORIGIN
6-151	Sarapultseva P.Yu.	APPLICATION OF SOLID PHASE EXTRACTION FOR INVESTIGATION OF VOLATILE AND LEACHED DECAYING LEAF LITTER ORGANIC COMPOUNDS
6-152	Kartashova E.S.	REDUCING OXYGEN BY SORPTION ON EVAPORATED SALTS MATRIX IN THE CARRIER GAS HOT EXTRACTION
6-153	Chzhan Ya.	SEQUENTIAL ELUTION TECHNIQUE ADAPTATION FOR PROBLEMS OF GEOCHEMISTRY BACKGROUND MONITORING
6-154	Belousova Yu.O.	FORMS OF NICKEL IN BOTTOM SEDIMENTS OF SMALL RIVERS

OCTOBER 10

SECTION 8. POLYMERS AND POLYMERIC MATERIALS (INCLUDING 2ND INTERNATIONAL SYMPOSIUM "MODERN TRENDS IN DENDRIMER CHEMISTRY AND APPLICATIONS")

8-076	Margolin A.L.	PROBLEMS OF THERMOGRAVIMETRIC ANALYSES IN INVESTIGATIONS OF POLYMERS AND COMPOSITES
8-077	Makhmutova L.I.	SUPRAMOLECULAR SYSTEMS BASED ON PILLAR[5] ARENES: SYNTHESIS OF MONO- AND DECA-SUBSTITUTED PILLAR[5]ARENE DERIVATIVES CONTAINING AMIDE GROUPS AND THEIR SELF-ASSEMBLY WITH POLYVINITETRAZOLE-CONTAINING COMPOUNDS
8-078	Naumova A.D.	ENCAPSULATION OF THERAPEUTIC COPPER COORDINATION COMPOUND IN POLYMER MATRICES FOR MELANOMA TREATMENT
8-079	Nekrasov I.K.	PLASMA AND CHEMICAL METHODS OF UHMWPE FIBER MODIFICATION
8-080	Nikolenko A.D.	STRUCTURE AND PROPERTIES OF REDOX-ACTIVE NANOGELES FOR REDOX FLOW BATTERY APPLICATIONS
8-081	Nikonov I.L.	FUNCTIONALIZATION OF PVC WITH LAWSONE RESIDUES AS O-NUCLEOPHILES BY MEANS OF MECHANOSYNTHESIS
8-082	Noskov A.V.	THERMAL INSULATION MATERIAL USING RECYCLED POLYETHYLENE TEREPHTHALATE.
8-083	Papkovskaya E.D.	NEW NON-FULLERENE ACCEPTOR MATERIALS FOR ORGANIC SOLAR CELLS
8-084	Parshina A.E.	PHYSICO-CHEMISTRY OF ALGAL NANOCELLULOSE HYDROGEL FORMATION
8-085	Pervakov K.A.	3D-SPATIAL CROSSLINKED ORGANOSILICON POLYMERS BASED ON THE REACTION OF SULFENYL CHLORIDE 2,4-PENTANEDIONATES OF CHROMIUM(III) AND ALUMINUM WITH VINYL-SILOXANES
8-086	Pyzhov V.S.	DEVELOPMENT OF THERMOSENSITIVE DRUG DELIVERY SYSTEM BASED ON CHITOSAN/ β -GLYCEROPHOSPHATE COMPOSITION
8-087	Rabadanova A.A.	SYNTHESIS OF A COMPOSITE MEMBRANE BASED ON ELECTROACTIVE β -PHASE POLYVINYLIDENE FLUORIDE WITH THE ADDITION OF BiFeO ₃ NANOPARTICLES
8-088	Revenko V.K.	SYNTHESIS OF SILOXANE MACROMONOMERS FOR THE INTERPHASE POLYCONDENSATION REACTION

OCTOBER 10

SECTION 8. POLYMERS AND POLYMERIC MATERIALS (INCLUDING 2ND INTERNATIONAL SYMPOSIUM "MODERN TRENDS IN DENDRIMER CHEMISTRY AND APPLICATIONS")

8-089	Rudakov N.S.	BIOSENSOR COATINGS BASED ON POLY(N,N-DIMETHYLAMINOETHYL METACRYLATE) AND GLUCOSE OXIDASE: FORMATION AND APPLICATION FOR GLUCOSE ANALYSIS
8-090	Ryzhkov A.I.	SYNTHESIS AND INVESTIGATION OF PROPERTIES OF A NEW CLASS OF AMPHIPHILIC CARBOSILANE JANUS-DENDRIMERS USING NATURAL COMPOUNDS
8-091	Sadekov B.G.	STUDY OF ALCOHOLYSIS OF POLYCARBONATE AND SYNTHESIS OF POLYURETHANE COATINGS BASED ON THE DEGRADATION PRODUCT
8-092	Sadrtdinova G.I.	HETEROCENE CATALYSIS IN THE COPOLYMERISATION OF POLAR VINYL MONOMERS
8-093	Salomatina E.V.	INFLUENCE OF TiO ₂ NANOPARTICLES ON THE PROPERTIES OF POLYSACCHARIDE-BASED FILM MATERIALS
8-094	Samsonov D.A.	POLYMER COMPOSITE MATERIALS BASED ON POLYPHENYLENE SULFIDE: PROPERTIES AND APPLICATION EXPERIENCE IN SPECIAL EQUIPMENT EXPLOITED UNDER EXTREME CONDITIONS
8-095	Selifonova A.A.	STUDY OF THE REACTION OF HYDROLYTIC POLYCONDENSATION OF MONOSODIUM OXYMETHYL(DIETOXY) SILANE
8-096	Slesarenko N.A.	NMR STUDY OF IONIC AND MOLECULAR MOBILITY IN POLYSTYRENE SULFONIC ACID AND ITS SALTS
8-097	Smyslov R.Yu.	INFLUENCE OF THE CONFORMATION OF POLYMETHACRYLIC ACID CHAINS GRAFTED TO POLYFLUORENE ON ITS PHOTOLUMINESCENCE IN AQUEOUS SOLUTIONS
8-098	Solodukhin D.A.	SYNTHESIS OF SILOXANE RIDGE-SHAPED POLYMERS WITH PERFLUORINATED SUBSTITUENTS
8-099	Sorokin A.V.	COMPOSITE SUPERABSORBING POLYMERIC MATERIALS FOR TRANSITION TO RATIONAL AGROTECHNOLOGIES
8-100	Uspenskii S.A.	FIRST STEPS TOWARDS OBTAINING A MODEL FOR FORMING FILMS FROM SOLUTIONS OF POLYSACCHARIDES IN MIXED SOLVENTS

OCTOBER 10

SECTION 8. POLYMERS AND POLYMERIC MATERIALS (INCLUDING 2ND INTERNATIONAL SYMPOSIUM "MODERN TRENDS IN DENDRIMER CHEMISTRY AND APPLICATIONS")

8-101	Fomina E.D.	SYNTHESIS OF HYDROGEL MEMBRANE BASED ON GELATIN MODIFIED WITH A Silylating AGENT FOR CHEMICAL SENSORS
8-102	Khmelnitskaya A.G.	PDMS/MQ COMPOSITES - PROMISING MATERIALS FOR DIELECTRIC ELASTOMER ACTUATORS
8-103	Chuiko I.A.	SYNTHESIS OF CONJUGATED POLYMERS BASED ON TRIPHENYLAMINE WITH VARIOUS SIDE ELECTRON-WITHDRAWING GROUPS FOR HYBRID PHOTOVOLTAICS
8-104	Petrova P.N.	CLIMATIC TESTS OF POLYMER COMPOSITE MATERIALS IN THE SHARPLY CONTINENTAL CLIMATE OF THE NORTH
8-105	Shakirova A.R.	SYNTHESIS AND INVESTIGATION OF THE PROPERTIES OF POLYPHELYLSILSESQUIOXANES OBTAINED FROM PRECURSORS OF VARIOUS STRTURES
8-106	Shakurov I.I.	SYNTHESIS OF SILANES AND SILOXANES CONTAINING MESOIONIC SUBSTITUENTS
8-107	Shapovalova D.A.	MORPHOLOGICAL FEATURES OF EPOXY COMPOSITIONS MODIFIED WITH THERMOPLASTIC POLYURETHANE
8-108	Sharikova N.A.	ELECTRO CONDUCTIVE POLYMER COMPOSITES FOR BIOMEDICINE
8-109	Shkinev P.D.	SYNTHESIS AND INVESTIGATION OF SURFACE ACTIVITY AND SELF-ASSEMBLY OF AMPHIPHILIC STEREOREGULAR CYCLOSILOXANES
8-110	Rodionova K.V.	RELAXATION PHENOMENA IN THE "PVA-AG" NANOCOMPOSITE

OCTOBER 10

11. SYMPOSIUM ON CHROMATOGRAPHY

11-001	Avkhadieva E.A.	STUDY OF THE SORPTION OF DICLOFENAC FROM AQUEOUS SOLUTIONS ON CARBON SORBENT FROM RICE HUSK
11-002	Borovikova S.A.	FACTORS AFFECTING THE ACCURACY OF PREDICTION OF GAS CHROMATOGRAPHIC RETENTION INDICES USING MACHINE LEARNING
11-003	Bryksin A.S.	STUDYING THE POSSIBILITY OF OBTAINING CONSTANT CONCENTRATIONS OF ORGANICALLY SOLUBLE ANALYTES IN ORGANIC MEDIA DURING THE OPERATION OF MONOLITHIC CHROMATO-DESORPTION SYSTEMS
11-004	Vasileva E.N.	CHARACTERISATION OF THE COMPOSITION OF BREWING HOP VARIETIES USING HPLC-HRMC AND MOLECULAR NETWORKING
11-005	Vakhrameev S.A.	APPLICATION OF SUPERCRITICAL FLUID CHROMATOGRAPHY-TANDEM MASS-SPECTROMETRY FOR DETERMINATION OF TRANSFORMATION PRODUCTS OF 1,1-DIMETHYLHYDRAZINE IN SOILS
11-006	Gutenev K.S.	METHODS OF GRADIENT ELUTION OF HYDROPHILIC ORGANIC SUBSTANCES USING POROUS GRAPHITIZED CARBON.
11-007	Zavalyueva A.S.	SOLID-PHASE EXTRACTION OF FLAVONOIDS BY ORDERED MESOPOROUS SILICA SYNTHESISED IN THE PRESENCE OF POTENTIAL SORBATES AS A STAGE OF CHROMATOGRAPHIC ANALYSIS
11-008	Ziganshina D.I.	DETERMINATION OF SERIINE AND ASPARAGIC ACID ENANTIOMERS IN HUMAN BRAIN TISSUE
11-009	Zorina M.O.	CYANOACETOHYDRAZIDE IS A NOVEL DERIVATIZATION REAGENT FOR STEROID HORMONES DETERMINATION IN URINE
11-010	Zorina M.O.	CYANOACETOHYDRAZIDE IS A NOVEL DERIVATIZATION REAGENT FOR STEROID HORMONES DETERMINATION IN URINE
11-011	Temerdashev A.Z.	#Н/Д
11-012	Kazakova V.D.	RETENTION REGULARITIES OF NORMAL ALCOHOLS ON MICROPOROUS SORBENTS

OCTOBER 10

11. SYMPOSIUM ON CHROMATOGRAPHY

11-013	Klimova Ya.A.	REGULARITIES OF ENANTIOSEPARATION OF DERIVATIZED AMINO ACIDS ON CHIRAL STATIONARY PHASES BASED ON CHEMICALLY MODIFIED QUININE ALKALOIDS
11-014	Krasheninina S.V.	REGULARITIES OF RETENTION OF LOW MOLECULAR ALIPHATIC AMINES ON CARBOXYL CATION EXCHANGER
11-015	Kuznetsova E.S.	APPLICATION OF ELECTROSPRAY IONIZATION MASS SPECTROMETRY FOR THE SYNTHESIS AND STUDY OF METASTABLE OLIGOPEPTIDE CLUSTERS
11-016	Labaev M.Yu.	COMPOSITE CHROMATO-DESORPTION SYSTEMS FOR OBTAINING CONSTANT ANALYTE CONCENTRATIONS IN AQUEOUS AND AQUEOUS-ORGANIC ENVIRONMENTS WITH SUBSEQUENT ANALYTICAL CONTROL
11-017	Latkin T.B.	APPLICATION OF STIR-BAR SORPTIVE EXTRACTION IN GAS CHROMATOGRAPHY-MASS SPECTROMETRIC ANALYSIS OF ARCTIC SNOW
11-018	Maksimov G.S.	REVEALING THE FACTORS GOVERNING SEPARATION SELECTIVITY TOWARD POLAR SUBSTANCES ON SILICA COLUMNS IN HYDROPHILIC INTERACTION LIQUID CHROMATOGRAPHY
11-019	Onuchina A.A.	LIGNANS IN SULPHATE PROCESS WASTES: COMPONENT COMPOSITION AND BIOLOGICAL ACTIVITY
11-020	Onuchina A.A.	LIGNANS IN SULPHATE PROCESS WASTES: COMPONENT COMPOSITION AND BIOLOGICAL ACTIVITY
11-021	Popova Yu.S.	DETERMINATION OF THE QUANTITATIVE CONTENT OF ATALUREN AND SELEXIPAG BY HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY METHOD WITH UV DETECTION
11-022	Pushkarev G.A.	THE STUDY OF LEMON MYRTLE AS A POTENTIAL RAW MATERIAL FOR THE PREPARATION OF BEVERAGES
11-023	Pushkin S.	DETERMINATION OF DIAZABICYCLOUNDECENE IN THE PHARMACEUTICAL SUBSTANCE SELEXIPAG
11-024	Sorokina E.A.	APPLICATION OF GAS CHROMATOGRAPHY-MASS SPECTROMETRY TO ASSESS THE ABILITY OF THE GUT MICROBIOTA TO BIOTRANSFORM SEPSIS-ASSOCIATED METABOLITES

OCTOBER 10

11. SYMPOSIUM ON CHROMATOGRAPHY

11-025	Tabachnaya D.G.	DEVELOPMENT OF OPTIMAL FORMULATIONS AUTOMOTIVE FUELS BASED ON CHROMATOGRAPHIC ANALYSIS INFORMATION
11-026	Faleva A.V.	#Н/Д
11-027	Khrisanfov M.D.	ESTIMATION OF INITIAL PARAMETERS FOR ITERATIVE APPROXIMATION OF CHROMATOGRAPHIC PEAKS WITH EXPONENTIALLY MODIFIED GAUSSIAN
11-028	Chikurova N.Yu.	HYDROPHILIC AND MIXED-MODE ADSORBENTS FOR THE SEPARATION AND DETERMINATION OF SWEETENERS IN VARIOUS OBJECTS
11-029	Uteeva Zh.D.	STUDY OF ADSORPTION FROM SOLUTIONS OF TRYPTOPHANE ENANTIOMERS ON A CHIRAL STATIONARY PHASE BASED ON ZEOLITE-LIKE COPPER BOROPHOSPHATE $\text{LiCu}_2\text{BP}_2\text{O}_8(\text{OH})_2$

OCTOBER 10

13. ACTUAL PROBLEMS OF ENERGY CONVERSION IN LITHIUM ELECTROCHEMICAL SYSTEMS

-
- 13-001 **Akhmedov M.A.** LITHIUM SULFUR FLOW BATTERY: DEVELOPMENT AND RESEARCH
-
- 13-002 **Burov A.S.** COMPUTATIONAL MODELING OF COOPERATIVE DIFFUSION OF Li⁺ IONS IN GARNET-TYPE STRUCTURES USING MOLECULAR DYNAMICS WITH MACHINE-LEARNING POTENTIALS
-
- 13-003 **Voropaeva D.Yu.** HYBRID CATION-EXCHANGE MEMBRANES FOR LITHIUM METAL BATTERY APPLICATIONS
-
- 13-004 **Geondzhian A.** ELECTRONIC STRUCTURE OF CATHODE MATERIALS: INSIGHTS FROM THEORETICAL SPECTROSCOPY
-
- 13-005 **Golubev M.V.** DEVELOPMENT OF Mg-O₂ BATTERY ELECTROLYTE COMPOSITION
-
- 13-006 **Golubnichii A.A.** SODIUM TO POTASSIUM ION EXCHANGE MECHANISM IN P2-TYPE LAYERED TRANSITION METALS OXIDE
-
- 13-007 **Davydov N.D.** IMPACT OF HIGH SYMMETRY GRAIN BOUNDARIES ON TRANSPORT AND OXYGEN RELEASE IN LiNiO₂
-
- 13-008 **Dyakonov A.K.** THE INFLUENCE OF THE TORTUOSITY OF SODIUM VANADIUM PHOSPHATE-BASED COMPOSITE ELECTRODES ON POLARIZATION LOSSES AT LOW TEMPERATURES
-
- 13-009 **Kislov D.A.** NANOPOROUS SILICON MICROPARTICLES AS THE ANODE OF A LITHIUM-ION BATTERY
-
- 13-010 **Kovalev I.A.** DEVELOPMENT OF A COMPOSITE NEGATIVE ELECTRODE CURRENT COLLECTOR FOR LITHIUM-ION BATTERIES, IN ORDER TO IMPROVE SAFETY
-
- 13-011 **Kuzovchikov S.M.** ELECTROLYTE REFILLING AS A WAY TO RECOVER CAPACITY OF AGED LITHIUM-ION BATTERIES
-
- 13-012 **Kurashkina A.A.** IMPROVING THE ELECTROCHEMICAL PERFORMANCE OF CATHODE MATERIALS WITH A TRIPHYLITE STRUCTURE VIA SURFACE MODIFICATION
-
- 13-013 **Kurlykin A.A.** SYNTHESIS OF NI-RICH CATHODE MATERIALS USING COORDINATION COMPOUNDS
-

OCTOBER 10

13. ACTUAL PROBLEMS OF ENERGY CONVERSION IN LITHIUM ELECTROCHEMICAL SYSTEMS

13-014	Kutovaya I.V.	ELECTROLYTES FOR SODIUM-ION BATTERIES WITH METAL ANODE
13-015	Lakienko G.P.	THE MICROSTRUCTURAL DESCRIPTORS OF CARBON ANODE MATERIALS FOR SODIUM-ION BATTERIES
13-016	Li S.A.	LITHIATED ANODE MATERIALS AS A PROMISING REPLACEMENT OF METALLIC LITHIUM IN LITHIUM-SULPHUR BATTERIES
13-017	Lozhkina D.A.	ELECTROCHEMICAL LITHIATION OF NICKEL PHYLLOSILICATE NANOSCROLLS
13-018	Lutsenko D.S.	STUDY OF LOW-TEMPERATURE PROPERTIES OF LIQUID ELECTROLYTE SYSTEMS FOR SODIUM-ION BATTERIES
13-019	Makarova M.V.	NEW APPROACHES TOWARDS SYNTHESIS AND MODIFICATION OF CHROMIUM-BASED LAYERED OXIDES AS CATHODES FOR SODIUM-ION BATTERIES
13-020	Marenko A.P.	TITANONILOBATES $\text{LiTi}_x\text{NbO}_{(3+2x)}$ ($x = 1, 2$) AS ANODE MATERIALS FOR LITHIUM-ION BATTERIES
13-021	Muravev D.V.	HARD CARBON-BASED HYBRID SODIUM-ION/SODIUM-METAL BATTERIES
13-022	Nestruiev M.O.	FEATURES OF SOLVOTHERMAL SYNTHESIS OF PHOSPHATE CATHODE MATERIALS FOR LITHIUM-ION BATTERIES USING TRANSITION METAL OXIDES
13-023	Ovsyannikov N.A.	OPTIMIZATION OF SYNTHESIS AND GRAIN BOUNDARIES FORMATION FOR ION-CONDUCTIVE CERAMICS WITH NASICON STRUCTURE FOR ALL-SOLID-STATE SODIUM-ION BATTERIES
13-024	Osipov V.T.	ANALYSIS OF THE Na^+ -ION MIGRATION IN THE $\text{NaNi}_{0.67}\text{Mn}_{0.2}\text{Co}_{0.12}$ DISORDERED LAYERED OXIDE
13-025	Petrovichev A.V.	FLUORINATED ESTERS AS NEW ELECTROLYTE COMPONENTS FOR HIGH VOLTAGE LITHIUM BATTERIES
13-026	Pogiba A.A.	$\text{Na}_{2/3}\text{Ni}_{1/3}\text{-XMgXMn}_{2/3}\text{O}_2$ AS A CATHODE MATERIAL FOR SODIUM-ION BATTERY

OCTOBER 10

13. ACTUAL PROBLEMS OF ENERGY CONVERSION IN LITHIUM ELECTROCHEMICAL SYSTEMS

-
- 13-027 **Pustovalova A.A.** HIGH-CAPACITY SILICON-BASED ACTIVE MATERIALS FOR NEGATIVE ELECTRODE OF LITHIUM-ION BATTERIES
-
- 13-028 **Rabadanov K.Sh.** THE VIBRATIONAL SPECTRA AND CONDUCTIVITY OF LITHIUM AND SODIUM PERCHLORATES IN NON-AQUEOUS SOLUTIONS (ACN, PC, PC – DMC AND PC – DME) WITH SiO₂ and Al₂O₃ NANOPARTICLES
-
- 13-029 **Safiullina A.R.** THE EFFECT OF ELECTROLYTE COMPOSITION ON THE CYCLING STABILITY OF SODIUM-ION BATTERIES
-
- 13-030 **Serdyukov G.D.** THERMAL STABILITY OF MATERIALS FOR SODIUM-ION BATTERIES
-
- 13-031 **Sirotin M.A.** OXIDATION OF LITHIUM PEROXIDE BY CYCLOMETALLATED RUTHENIUM COMPLEXES IN LITHIUM-OXYGEN BATTERY
-
- 13-032 **Sitnikova L.A.** NI-RICH NMC WITH IMPROVED MECHANICAL AND ELECTROCHEMICAL CHARACTERISTICS
-
- 13-033 **Slesarenko A.A.** STUDY OF ELECTROLYTE SYSTEMS WITH COMPETITIVE ION TRANSPORT IN MIXED SOLVENTS ACCORDING TO NMR AND QUANTUM CHEMICAL MODELING DATA
-
- 13-034 **Soloveva M.A.** THE STUDY OF DEFECT INTERACTION IN DISORDERED CARBON ANODE MATERIALS
-
- 13-035 **Styuf E.A.** SYNTHESIS OF CATHODE MATERIAL LiFePO₄/C BY MICROWAVE SPRAY DRYING METHOD
-
- 13-036 **Sultanova Ya.V.** BIOWASTE-DERIVED HARD CARBON MATERIALS FOR SODIUM-ION BATTERIES
-
- 13-037 **Ushakov A.V.** APPROXIMATION OF THE RATE CAPABILITY FOR HYBRID ELECTRODE MATERIALS AND BATTERIES
-
- 13-038 **Fefelov M.A.** THE MECHANISM OF FORMATION OF MICROPORES IN NON-GRAPHITIZED CARBON FROM PHENOL-FORMALDEHYDE RESIN AND GLUCOSE FOR SODIUM-ION BATTERIES RESIN AND GLUCOSE
-

OCTOBER 10

13. ACTUAL PROBLEMS OF ENERGY CONVERSION IN LITHIUM
ELECTROCHEMICAL SYSTEMS

-
- 13-039 **Khizbullin A.A.** FLUORINATED ETHERS AS COMPONENTS OF ELECTROLYTES IN LITHIUM METAL BATTERIES
-
- 13-040 **Yablanovich A.** MIXED SODIUM AND IRON PHOSPHATES AS CATHODE MATERIALS FOR SODIUM ION BATTERIES
-

OCTOBER 10

16. SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

16-061	Abdullov R.G.	DETERMINATION OF ²⁴⁹ BK CONTENT IN THE IRRADIATED MATERIAL SOLUTIONS
16-062	Mashkova D.M.	CASCADE FRACTIONATION OF ANTHROPOGENIC URANIUM FORMS IN THE NATURAL-TECHNOGENIC SYSTEM OF THE TAILING DUMP OF PJSC NOVOSIBIRSK CHEMICAL CONCENTRATES PLANT
16-063	Mitrofanov Yu.A.	RADIOLYSIS SUPPRESSION IN THERAPEUTIC RADIOPHARMACEUTICALS
16-064	Pavlyuk A.O.	APPROACHES TO DEFINING THE GRAPHITE RADIOACTIVE WASTES CLASS
16-065	Pet'kov V.I.	SYNTHESIS AND CHARACTERIZATION OF $M_{0.5}Zr_2(AsO_4)_x(PO_4)_{4-3-x}$ (M – Sr, Ba and Cd) KOSNARITE-BASED CERAMICS FOR NUCLEAR WASTE IMMOBILIZATION
16-066	Plakhova T.V.	PENTAVALENT NEPTUNIUM BEHAVIOUR IN CARBONATE-RICH SOLUTIONS IN THE PRESENCE OF Ca ²⁺ AND Mg ²⁺ CATIONS
16-067	Potapov A.M.	HIGH TEMPERATURE TREATMENT OF NITRIDE SPENT NUCLEAR FUEL
16-068	Rzhevskaja A.V.	UNDERSTANDING OF PROCESSES BEHIND SEQUENTIAL EXTRACTION OF Am (III) FROM ENVIRONMENTAL SAMPLES
16-069	Rodionova A.A.	SORPTION AND SPATIAL DISTRIBUTION OF RADIONUCLIDES ON MINERALS OF THE NIZHNEKANSKY MASSIF ROCKS IN CONDITIONS OF FUTURE RW DISPOSAL
16-070	Romanchuk A.Yu.	INTERACTION OF PLUTONIUM AND ITS ANALOGS WITH MINERALS AND NATURAL ORGANIC MATTER: FROM SPECIATION TO THERMODYNAMIC MODELING
16-071	Rotmanov K.V.	PRODUCTION OF PROMETHIUM-147 FROM THE IRRADIATED NEODYMIUM OF NATURAL ISOTOPIC COMPOSITION
16-072	Rotmanov K.V.	SELECTIVE EXTRACTION OF ²⁴⁹ Bk FROM EUROPIUM NITRIC ACID SOLUTIONS AS A CURIUM SIMULATOR IN PRESENCE OF KBrO ₃
16-073	Rumyantsev A.S.	THE TECHNETIUM ISOTOPES PRODUCED BY PROTON IRRADIATION OF MOLYBDATES AQUEOUS SOLUTIONS

OCTOBER 10

16. SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

16-074	Rychkov P.V.	ENERGY TRANSFER FROM SOLVENT TO SOLUTE IN RADIATION-CHEMICAL TRANSFORMATIONS OF EXTRACTANT BASED ON SOLUTIONS OF DCH18C6 IN 1,1,7-TRIHYDRODODECAFLUOROHEPTANOL
16-075	Sadikov I.I.	PRODUCTION OF CARRIER FREE LUTETIUM-177 RADIONUCLIDE BY THE TANDEM METHOD
16-076	Sannikova P.A.	METHOD OF GAMMA SPECTROMETRY FOR PLUTONIUM CONCENTRATION DETERMINING IN THE FLUORIDE MELTS BASED ON LiF-NaF-KF
16-077	Sannikova P.A.	METHODS OF SEPARATION AND DETERMINATION OF THE CONCENTRATION OF ACTINIDES, FISSION PRODUCTS AND CORROSION PRODUCTS IN FLUORIDE MELTS BASED ON LiF-NaF-KF
16-078	Sakhonenkova A.P.	TECHNETIUM PENTACARBONYL HYDRIDE
16-079	Semenkova A.S.	THE FEATURES OF Cs(I) AND Sr(II) SORPTION ONTO SOILS
16-080	Skryleva P.I.	MECHANISMS OF NEPTUNIUM SORPTION ONTO PEATY-PODZOLIC-GLEYIC AND FLOODPLAIN SODDY-GLEYIC SOIL
16-081	Suetina A.K.	CONTROL OF Cs-137 REMOVAL IN WATERS OF MONITORING WELLS OF RADIOACTIVE WASTE STORAGE AND BURIAL SITES
16-082	Tarasovskikh T.V.	DETERMINATION OF IMPURITY ELEMENTS IN URANIUM-CONTAINING MATERIALS
16-083	Timoshenko V.V.	SENSORY METHODS FOR CONTROL DURING THE PRODUCTION OF RADIOPHARMACEUTICAL YTTRIUM-90
16-084	Titchenko N.A.	SEPARATION OF Ti-44 AND Sc-44 BY EXTRACTION AND EXTRACTION CHROMATOGRAPHY METHODS
16-085	Tokar E.A.	SYNTHESIS OF NEW COMPOSITE MATERIALS BASED ON AMIDOXIMES FOR EXTRACTION OF NATURAL AND ANTHROPOGENIC RADIONUCLIDES FROM LIQUID MEDIA OF COMPLEX COMPOSITION
16-086	Tonyan I.R.	SORPTION OF CESIUM AND STRONTIUM ON BENTONITE CLAYS OF VARIOUS DEPOSITS
16-087	Ushakov I.A.	DETERMINATION OF OPTIMAL PARAMETERS FOR SEPARATION OF LUTETIUM-177 AND YTTERBIUM BY CHROMATOGRAPHIC METHOD
16-088	Fimina S.A.	IMMOBILIZATION OF ORGANIC RADIOACTIVE WASTE IN MAGNESIUM POTASSIUM PHOSPHATE COMPOUND

OCTOBER 10

16. SYMPOSIUM ON NUCLEAR CHEMISTRY (BRICS+)

16-089	Habarova M. R.	ORGANIC FORMS OF NATURAL RADIONUCLIDES AND RARE EARTH ELEMENTS IN PEAT OF THE UPPER PEAT TYPE
16-090	Habarova M. R.	STABILITY OF CLAY COLLOIDAL SUSPENSIONS OF DIFFERENT DIPOSITS IN THE ENVIROMENT OF UNDERGROUND RAW DISPOSAL
16-091	Khabirova S.Yu.	RADIOLABELLED SURFACE MODIFIED CeO ₂ NANOPARTICLES FOR EVENTUAL APPLICATION IN NUCLEAR MEDICINE
16-092	Khabirova S.Yu.	<i>IN VITRO</i> AND <i>IN VIVO</i> EXAMINATION OF CeO ₂ NANOPARTICLES IN LUNG FLUIDS: A NON-RADIOACTIVE MODEL FOR PuO ₂
16-093	Kuzmenkova N.V.	RADIONUCLIDES IN THE ABIOTIC ENVIRONMENTAL OBJECTS IN THE FAR EASTERN REGION
16-094	Chalysheva N.D.	IMMOBILIZATION OF SPENT SULFONIC CATION EXCHANGE RESIN IN MAGNESIUM POTASSIUM PHOSPHATE COMPOUND
16-095	Chalysheva N.D.	CONDITIONING OF NPP BORON-CONTAINING EVAPORATOR BOTTOMS IN MAGNESIUM POTASSIUM PHOSPHATE COMPOUND
16-096	Chukhlantseva E. V.	MEASURING ISOTOPIC COMPOSITION OF URANIUM AND PLUTONIUM IN SPENT NUCLEAR FUEL USING THERMAL IONIZATION MASS SPECTROMETRY
16-097	Chukhlantseva Ye.V.	MEASUREMENT OF COMPOSITION OF SHORT-LIVED FRACTION RETURNED TO THE FOREIGN CUSTOMER IN THE FRAMEWORK OF BALANCED NUCLEAR FUEL CYCLE
16-098	Shaydullin S.M.	INVESTIGATING THE PROPERTIES OF LOW-MELTING BOROSILICATE GLASSES FOR A SMALL-SIZED MELTER DESIGNED BY MAYAK
16-099	Shichalin O.O.	COMPARATIVE ANALYSIS OF THERMAL CONSOLIDATION METHODS OF NAY FAUJASITE ZEOLITE FOR IMMOBILIZATION OF ¹³⁷ Cs RADIONUCLIDES
16-100	Zarubo A.M.	SPECIATION OF ⁶⁰ Co, ⁸⁵ Sr, ¹³⁷ Cs RADIONUCLIDES IN SPENT FUEL POOL MODEL SOLUTION
16-101	Zarubo A.M.	NICKEL RADIONUCLIDE SPECIATION IN HIGH-SALINITY SPENT DECONTAMINATION SOLUTIONS

OCTOBER 10

18. DEVELOPMENT OF THE MINERAL RESOURCES FOR RUSSIA'S NTECHNOLOGICAL SOVEREIGNTY

18-001	Balandinskii D.A.	SYNERGISM OF ETHOXYPHOSPHATE AND SODIUM OLEATE MIXTURE IN AQUEOUS SOLUTION
18-002	Belyi A.V.	ELECTROCHEMICAL CULTIVATION OF ACIDOPHILIC MICROORGANISMS – PROSPECTS FOR INTENSIFICATION OF BIOHYDROMETALLURGICAL PROCESSES
18-003	Bukhanova D.S.	PROCESSING PROSPECTS OF WASTES FROM MINERAL PROCESSING PLANTS OF EPITHERMAL DEPOSITS
18-004	Volynkin S.S.	OBTAINING BARITE FROM TECHNOGENIC DEPOSITS OF THE SALAIR RIDGE
18-005	Groshev N.Yu.	APPLIED GEOCHEMISTRY OF THE FEDOROVA-PANA PLATINUM-BEARING COMPLEX
18-006	Dzhigola L.A.	RESEARCH OF THE PROPERTIES OF MINERAL SORBENTS
18-007	Kunilova I.V.	EXTRACTION OF CRITICAL METALS FROM INDUSTRIAL WASTES OF COAL COMBUSTION
18-008	Leonenko N.A.	THE CHANGES OF STRUCTURAL IN IRONIC QUARTZITES UNDER THE IMPACT OF LASER RADIATION
18-009	Mazukhina S.I.	APPLICATION OF PHYSICO-CHEMICAL MODELING IN THE DEVELOPMENT OF WASTE (USING THE EXAMPLE OF GOK, MURMANSK REGION)
18-010	Mikhailov A.G.	DIRECTED CONCENTRATION OF USEFUL COMPONENTS BY NATURE-LIKE UPWARD FILTRATION MASS TRANSFER IN ANTHROPOGENIC OBJECTS
18-011	Serov P.A.	ISOTOPE-GEOCHRONOLOGICAL MARKERS OF ORE PROCESSES IN DEPOSITS OF STRATEGIC TYPES OF MINERAL RAW MATERIALS IN THE NORTH-WESTERN SECTOR OF THE RUSSIAN ARCTIC (MURMANSK REGION): NEW APPROACHES AND PROSPECTS
18-012	Sokolova M.D.	THE POTENTIAL OF HELIUM PRODUCTION IN THE OIL AND GAS CONDENSATE FIELDS OF THE REPUBLIC OF SAKHA (YAKUTIA) TO ENSURE THE SOVEREIGNTY OF THE RUSSIAN FEDERATION IN STRATEGIC RAW MATERIALS
18-013	Epov O.A.	ADVERSE OXIDATION-REDUCTION REACTIONS DURING DIRECT ALKALINE EXCESS OF TOMTOR DEPOSIT

OCTOBER 10

21. SYMPOSIUM ON MOLECULAR BIOCHEMISTRY

21-001	Belova V.S.	STUDY OF THE STRUCTURE OF LIPOOLIGOSACCHARIDE OF THE MARINE GRAM-NEGATIVE BACTERIUM KANGIELLA JAPONICA KMM 3897
21-002	Dagaev N.D.	SEARCH FOR EVOLUTIONARILY NEW MCE-18 STRUCTURAL SCAFFOLDS OF COMPOUNDS THAT ARE SELECTIVELY CYTOTOXIC AGAINST TUMOR CELLS
21-003	Dorokhova V.S.	SYNTHESIS OF OLIGOSACCHARIDES RELATED TO CRYPTOCOCCUS NEOFORMANS GALACTOXYLOMANNAN FRAGMENTS
21-004	Kolchanova A.Yu.	RESEARCH ON BERBERINE DERIVATIVES FOR SELECTIVE CYTOTOXICITY AGAINST TUMOR CELLS AND ANALYSIS OF POSSIBLE MECHANISMS
21-005	Kuznetsov A.N.	LINEAR OLIGOSACCHARIDE FRAGMENTS OF BRUCELLA CYCLIC β -(1 \rightarrow 2)-GLUCAN: SYNTHESIS, NMR AND IMMUNOCHEMICAL INVESTIGATION
21-006	Lembikova D.E.	COMPARISON OF STRUCTURAL CHARACTERISTICS AND ANTICANCER ACTIVITY IN VITRO OF FUCOIDAN FROM F. EVANESCENS AND THEY DERIVATIVES OBTAINED BY CHEMICAL AND ENZYMATIC HYDROLYSIS
21-007	Makshakova O.N.	MACHINE LEARNING METHODS APPLIED TO PROTEINS RECOGNIZING GLYCOSAMINOGLYCANS
21-008	Marynich N.K.	ESTABLISHING OF THE RED FLUORESCENT PROTEIN TAGRFP'S MUTANTS WITH REDUCED IMMUNOGENICITY
21-009	Mustaev E.A.	PREDICTION OF THE FULL-SIZE STRUCTURE OF THE PARP1 REPAIR PROTEIN USING MACHINE LEARNING AND HOMOLOGICAL DESIGN METHODOLOGY
21-010	Nikiteev I.A.	INCREASING THE THERMOSTABILITY OF TERMINAL DEOXYNUCLEOTIDYL TRANSFERASE FOR SYNTHESIS OF SINGLE-STRANDED DNA
21-011	Nichugovskii A.I.	ENANTIOMER-SPECIFIC INTERACTION OF LIPOPHILIC POLYAMINES WITH CELLULAR TRANSPORTERS
21-012	Odarenko K.V.	SOLOXOLONE PARA-METHYLANILIDE AS AN INHIBITOR OF INVASIVENESS AND STEMNESS IN GLIOBLASTOMA

OCTOBER 10

21. SYMPOSIUM ON MOLECULAR BIOCHEMISTRY

21-013	Petrova A.L.	CONJUGATES OF PEPTIDES AND HYALURONIC ACID BINDING VASCULAR ENDOTHELIAL GROWTH FACTOR
21-014	Puchkov P.A.	OPTIMIZATION OF LIPOSOMAL COMPOSITIONS FOR mRNA DELIVERY
21-015	Rubtsov N.K.	THE DISCOVERY OF NEW GH141 STRUCTURAL FAMILY ENZYMES OF THE FUCOIDAN-DEGRADING LOCUS OF THE MARINE BACTERIUM WENYINGZHUANGIA FUCANILYTICA CZ1127T
21-016	Sagaidak A.V.	A TEST SYSTEM FOR EVALUATING THE EFFECTIVENESS OF ABC TRANSPORTER INHIBITORS
21-017	Fatikhova A.V.	STUDY OF THE EFFECT OF NUCLEOTIDE DISTRIBUTION ON THE FUNCTIONALITY OF DNA AND RNA COMPLEXES
21-018	Yamansarov E.Yu.	DOUBLE ARYLATION" IN $AlCl_3$ -PROMOTED TRANSFORMATION OF VINYL(DIPHENYLPHOSPHORYL) ALLENES IN BENZENE AND MESITYLENE
21-019	Korraa S.	EFFECT OF MESENCHYMAL CELLS (MSCS) AND NANOSCAFFOLD ON WOUND HEALING IN IRRADIATED RATS



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