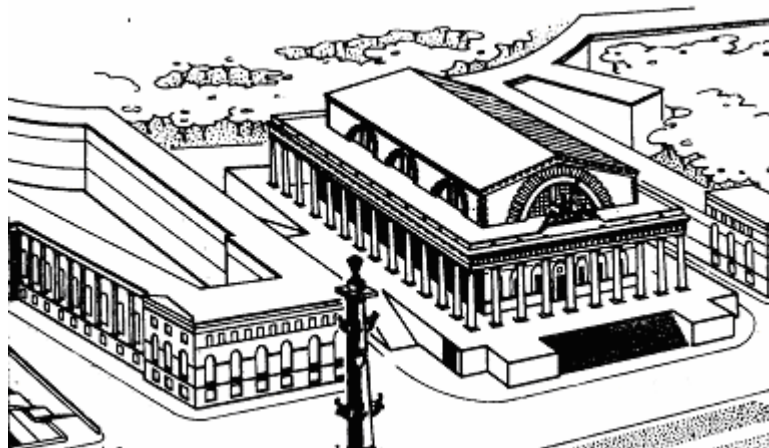


MODERN PROBLEMS OF POLYMER SCIENCE



Program of 14th International Saint Petersburg Conference of Young Scientists

**November 12 – 14, 2018
Saint Petersburg**

TIME TABLE

Monday, November 12

*Saint Petersburg Scientific Center of the Russian Academy of Sciences
Universitetskaya Naberezhnaya (Universitetskaya Quay), 5*

8-30 – 17-30	Registration
9-00 – 9-10	Opening Ceremony
9-10 – 11-00	Plenary session
11-00 – 11-30	Coffee Break
11-30 – 13-00	Plenary session
13-00 – 14-00	Lunch
14-00 – 15-30	Section 5. Theory and simulation Section 1. Polymer synthesis and modification
15-30 – 16-00	Coffee Break
16-00 – 17-30	Poster presentations (Section 2 and Section 4)

Tuesday, November 13

*Saint Petersburg Scientific Center of the Russian Academy of Sciences
Universitetskaya Naberezhnaya (Universitetskaya Quay), 5*

9-30 – 10-45	Section 2. Physico-chemical properties of polymers Section 6. Polymer applications
10-45 – 11-00	A. Lermontov (SocTrade)
11-00 – 11-30	Coffee Break
11-30 – 13-00	Plenary session
13-00 – 14-00	Lunch
14-00 – 15-15	Section 4. Bio-related and medical polymers Section 3. Polymer composite materials
15-15 – 16-00	Coffee Break
16-00 – 17-30	Poster presentations (Section 1 and Section 5)

Wednesday, November 14

*Institute of Macromolecular Compounds of the Russian Academy of Sciences
Bolshoi Prospect of the Vasilievsky Island, 31*

9-30 – 11-00	Section 1. Polymer synthesis and modification Section 5. Theory and simulation
11-00 – 11-30	Coffee Break
11-30 – 12-30	Section 3. Polymer composite materials Section 4. Bio-related and medical polymers
12-30 – 13-30	Lunch
13-30 – 15-00	Section 5. Theory and simulation Section 4. Bio-related and medical polymers
15-00 – 15-30	Coffee Break
15-00 – 16-30	Poster presentations (Section 3 and Section 6)
16-30 – 17-00	Closing Ceremony

SCIENTIFIC PROGRAM

Monday, November 12		
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9-10 – 9-30	Lyulin S. INSTITUTE OF MACROMOLECULAR COMPOUNDS OF THE RUSSIAN ACADEMY OF SCIENCES: ITS PAST, PRESENT, AND FUTURE	PL-01
9-30 – 10-15	Sheiko S. PROGRAMMABLE DESIGN OF TISSUE-MIMETIC MATERIALS	PL-02
10-15 – 11-00	Schmid F. WHY “BAD” IS “GOOD”: POLYDISPERSITY IN POLYMERIC NANOSTRUCTURES	PL-03
Plenary session		Big Hall
11-30 – 12-15	Hoogenboom R. POLY(2-OXAZOLINE)S: FROM FUNDAMENTAL UNDERSTANDING TO BIOMEDICAL APPLICATIONS	PL-04
12-15 – 13-00	Khutoryanskiy V. EFFICIENT PARTICIPATION IN RESEARCH CONFERENCES	PL-05
Section 5. Theory and simulation		Big Hall
<i>Special session: homage to Prof. Tatiana M. Birshtein</i>		
14-00 – 14-15	<u>Lebedeva I.O., Zhulina E.B., Borisov O.V.</u> SELF-ASSEMBLY OF LINEAR-DENDRITIC AND DOUBLE DENDRITIC BLOCK COPOLYMERS: FROM SPHERICAL MICELLES TO DENDRIMERSOMES	5-O-01
14-15 – 14-30	<u>Glova A.D., Falkovich S.G., Larin S.V., Nazarychev V.M., Lyulin S.V.</u> STRUCTURAL PROPERTIES OF OLIGOLACTIDE CHAINS GRAFTED ONTO CELLULOSE NANOCRYSTALS	5-O-02
14-30 – 14-45	<u>Gumerov R.A., Filippov S.A., Potemkin I.I.</u> COMPUTER SIMULATIONS OF AMPHIPHILIC COPOLYMER MICROGELS IN SOLUTION AND AT THE LIQUID INTERFACE	5-O-03
14-45 – 15-00	<u>Mikhailov I.V., Darinskii A.A.</u> INDUCED PERSISTENCE LENGTH OF MOLECULAR BRUSHES WITH GRAFTED DENDRONS	5-O-04
15-00 – 15-15	<u>Gordievskaya Yu.D., Kramarenko E.Yu.</u> THE EFFECT OF THE CHAIN RIGIDITY AND COUNTERION SIZE ON THE CONFORMATIONAL BEHAVIOR OF POLYMER CHAINS WITH POLAR GROUPS	5-O-05
15-15 – 15-30	<u>Koch M., Saphiannikova M., Santer S., Guskova O.</u> LIGHT-INDUCED PHASE TRANSITION OF SUPRAMOLECULAR POLYMERS COMPOSED OF C3-SYMMETRIC AZOBENZENE STARS	5-O-06
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14-15 – 14-30	<u>Chabina A.S., Nashechkina Y.A.</u> POLYCAPROLACTONE FILMS MODIFICATION BY ARGININE	1-O-02

14-30 – 14-45	<u>Ostanin S.A.</u> , Zuev V.V., Mokeev M.V. AN EXTENDED N-H BOND, DRIVEN BY A CONSERVED SECOND-ORDER INTERACTION, IN CYCLOHEXANE BASED POLYUREAS	1-O-03
14-45 – 15-00	<u>Vaitusionak A.A.</u> , Vasilenko I.V., Grazulevicius J.V., Kostjuk S.V. POLYMERIZATION OF 9-(4-VINYLPHENYL)CARBAZOLE VIA CATIONIC AND RADICAL MECHANISMS: COMPARATIVE STUDY OF STRUCTURE AND PROPERTIES OF THE SYNTHESIZED POLYMERS	1-O-04
15-00 – 15-15	<u>Gubina N.S.</u> , Levina J.V. THE BOOTSTRAP EFFECT IN RAFT COPOLYMERIZATION OF ACRYLIC ACID AND N-BUTYL ACRYLATE MEDIATED BY SYMMETRIC TRITHIOCARBONATES	1-O-05
15-15 – 15-30	<u>Kritchenkov A.S.</u> , Skorik Y.A. THE FIRST APPLICATION OF METAL-CATALYZED AZIDE-NITRILE 1,3-DIPOLAR CYCLOADDITION IN CHITOSAN CHEMISTRY	1-O-06
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Tuesday, November 13

*Saint Petersburg Scientific Center of the Russian Academy of Sciences
Universitetskaya Naberezhnaya (Universitetskaya Quay), 5*

Section 2. *Physicochemical properties of polymers*

Big Hall

9-30 – 9-45	<u>Anufriev I.A.</u> , Perevyazko I., Lebedeva E.V., Trüttschler A.-K., Schubert U.S., Tsvetkov N.V. PHYSICO-CHEMICAL, CONFORMATIONAL AND OPTICAL CHARACTERISTICS OF CATIONIC COPOLYMERS IN SOLUTIONS	2-O-01
9-45 – 10-00	<u>Kirsanov A.I.</u> CREEP BEHAVIOR OF SHORT POLYPROPYLENE FIBERS	2-O-02
10-00 – 10-15	<u>Vorobiov V.K.</u> , Tarasova E.V., Mikli V., Sokolova M.P., Bobrova N.V., Krumme A., Smirnov M.A. ELECTROCHEMICAL PROPERTIES OF FIBROUS MAT BASED ON POLYANILINE	2-O-03
10-15 – 10-30	<u>Fatullaev E.I.</u> , Tarabukina E.B., Abzaeva K.A., Filippov A.P. EFFECT OF METALS ON HYDRODYNAMIC AND CONFORMATIONAL PROPERTIES OF POLYACRYLIC ACID METAL SALTS	2-O-04
10-30 – 10-45	<u>Kovylin R.S.</u> , Ermolaeva C.G., Baten'kin M.A., Kulikova T.I., Zamyshlyayeva O.G., Chesnokov S.A. AMPHIPHILIC FLUORINATED BLOCK-COPOLYMER COATING FOR THE PREPARATION OF HYDROPHOBIC POROUS MATERIALS	2-O-05
10-45 – 11-00	<u>Lermontov A.</u> (SocTrade) TO BE ANNOUNCED	2-O-06

Section 6. *Polymer applications*

Small Hall

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9-45 – 10-00	<u>Rostovtseva V.A.</u> , Pulyalina A. Yu., Polotskaya G. A., Toikka A. M. GAS SEPARATION EFFICIENCY OF NANODIAMONDS FILLED POLYIMIDE MEMBRANES	6-O-02

10-00 – 10-15	<u>Kochetkov V.G.</u> , Kablov V.F., Novopoltseva O.M., Kryukova D.A. INVESTIGATION OF INFLUENCE OF MODIFIED KAOLIN FIBERS ON FIRE-PROTECTIVE PROPERTIES OF ELASTOMER COMPOSITIONS	6-O-03
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10-30 – 10-45	<u>Tian N.S.</u> , Meleshko T.K., Polotskaya G.A., Zoolshoev Z.F., Gofman I.V., Yakimansky A.V. INFLUENCE OF COPOLYIMIDE BRUSHES AS MODIFIER ON PROPERTIES OF POLYMER MEMBRANES	6-O-05
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12-15 – 13-00	Amorín M. DESIGN AND APPLICATIONS OF CYCLIC PEPTIDE NANOTUBES BASED ON ALPHA, GAMMA- AND DELTA-AMINO ACIDS	PL-07
Section 4. Bio-related and medical polymers		
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14-00 – 14-15	<u>Michurov D.A.</u> , Kolosova O.Yu., Lozinsky V.I. PROPERTIES OF POLY(VINYL ALCOHOL) CRYOGELS FORMED IN THE PRESENCE OF CHAOTROPIC AGENTS IN DIMETHYLSULFOXIDE MEDIA	4-O-01
14-15 – 14-30	<u>Tsurkan M.</u> , Bessert J., Selzer R., Binner M., Tsurkan S., Carsch D., Werner C. BIOORTHOGONAL APPROACH IN THE DESIGN OF POLYMER MATERIALS FOR TISSUES AND ORGAN PRODUCTION	4-O-02
14-30 – 14-45	<u>Ryabukhina E.V.</u> , Sybachin A.V. DIFFERENTLY CHARGED COMPLEXES OF LIPOSOMES FOR CREATION OF MULTIFUNCTIONAL DRUG SYSTEMS	4-O-03
14-45 – 15-00	<u>Hahn D.</u> , Rüb J.M., Lück S., Freudenberg U., Jordan R., Werner C. FROM NON-FOULING TO CELL-INSTRUCTIVE: BIOHYBRID HYDROGELS WITH ADJUSTABLE PHYSICO-CHEMICAL PROPERTIES	4-O-04
15-00 – 15-15	<u>Poshina D.N.</u> , Raik S.V., Skorik Y.A. ENZYMATIC HYDROLYSIS OF CHITIN AND CHITOSAN: GENERAL THEORY AND APPLICATIONS	4-O-05
Section 3. Polymer composite materials		
		Small Hall
14-00 – 14-15	<u>Vlasov P.V.</u> , Kuryndin I.S., Elyashevich G.K. STRUCTURE, ELECTROACTIVE AND MECHANICAL PROPERTIES OF THE COMPOSITE SYSTEMS BASED ON POROUS POLYVINYLIDENE FLUORIDE FILMS WITH POLYANILINE LAYERS	3-O-01
14-15 – 14-30	<u>Polyakov I.V.</u> , Vaganov G.V., Yudin V.E., Ivan'kova E.M., Popova E.N., Elokhovskiy V.Yu. ADDITIVE MANUFACTURING AND CHARACTERIZATION OF POLYETHERIMIDE MODIFIED WITH CARBON AND GLASS FIBERS	3-O-02
14-30 – 14-45	<u>Domurath J.</u> , Férec J., Ausias G., Saphiannikova M. VISCOSITY OF DILUTE SUSPENSIONS OF RIGID ANISOMETRIC PARTICLES IN NON-NEWTONIAN FLUIDS	3-O-03
14-45 – 15-00	<u>Sukhova A.A.</u> , Skorik Y.A. STABILIZATION OF NANODIAMOND DISPERSIONS WITH LOW CONCENTRATION CHITOSAN SOLUTIONS IN DIFFERENT ACIDS	3-O-04
15-00 – 15-15	<u>Mikusheva N.G.</u> , Lebedeva E.V., Perevyazko I.Yu., Petrov M.P., Mikhailova M.E., Torlopov M.A., Martakov I.S., Krivoschapkin P.V., Tsvetkov N.V. HETEROAGGREGATION OF METAL OXIDE NANOPARTICLES WITH CELLULOSE NANOCRYSTALS	3-O-05

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Wednesday, November 14		
<i>Institute of Macromolecular Compounds of the Russian Academy of Sciences Bolshoi Prospect of the Vasilievsky Island, 31</i>		
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9-45 – 10-00	<u>Neumolotov N.K.</u> , Bekanova M.Z. END GROUP MODIFICATION OF RAFT-BASED POLY(METHYL METHACRYLATE) VIA THERMOLYSIS AND RADICAL-INDUCED REDUCTION	1-O-08
10-00 – 10-15	<u>Denisova Yu.I.</u> , Zhigarev V.A., Roenko A.V., Gringolts M.L., Shandryuk G.A., Peregudov A.S., Kudryavtsev Y.V. INTERCHAIN EXCHANGE VIA OLEFIN METATHESIS REACTION BETWEEN POLYNORBORNENE AND POLYALKENAMERS	1-O-09
10-15 – 10-30	Simonova Yu.A. SIGNIFICANT INFLUENCE OF ELECTROLYTE IMPURITIES IN DISTILLED WATER ON THE BEHAVIOR OF RADICAL POLYMERIZATION OF PROTONATED DIALLYLAMMONIUM MONOMERS	1-O-10
10-30 – 10-45	<u>Vasileva A.A.</u> , Mikhailov V.N. COPPER(I)-CATALYZED AZIDE-ALKYNE CYCLOADDITION AS AN APPROACH FOR A STEP-GROWTH POLYMERIZATION AND SURFACE MODIFICATION	1-O-11
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10-00 – 10-15	Muratov A.D. MARTINI COARSE-GRAINED MODEL OF THERMOSENSITIVE COMPOUNDS: POLY-N-ISOPROPYLACRILAMIDE AS AN EXAMPLE	5-O-08
10-15 – 10-30	<u>Boyko O.S.</u> , Tolmachev D.A., Lukasheva N.V., Lyulin S.V., Karttunen M. ATOMISTIC COMPUTER SIMULATION OF THE POLYAMINO ACIDS IN WATER SOLUTIONS	5-O-09
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10-45 – 11-00	<u>Melnikova S.D.</u> , Glova A.D., Falkovich S.G., Nazarychev V.M., Larin S.V., Lyulin S.V. STRUCTURAL PROPERTIES OF THE PLA-BASED COMPOSITES FILLED WITH SURFACE-MODIFIED CELLULOSE NANOCRYSTALS AT DIFFERENT TEMPERATURES	5-O-11

Section 3. Polymer composite materials		Conference Hall
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11-45 – 12-00	<u>Kostromin S.V.</u> , Saprykina N.N., Popova E.N., Bronnikov S.V. MORPHOLOGY AND DIELECTRIC BEHAVIOR OF POLYAZOMETHINE/HYBRID CARBON NANOFILLERS COMPOSITES	3-O-07
12-00 – 12-15	<u>Zabirov I.N.</u> , Moskalyuk O.A., Tsobkhallo E.S., Yudin V.E. STRESS RELAXATION IN NANOCOMPOSITE ORIENTED FIBERS BASED ON POLYPROPYLENE FILLED WITH VGCF	3-O-08
12-15 – 12-30	<u>Bykova E.N.</u> , Gofman I.V., Ivan'kova E.M., Vlasova E.N. IMPACT OF CARBON NANOPARTICLES OF DIFFERENT SHAPES UPON THE HYDROLYTIC STABILITY OF AROMATIC POLYIMIDES BASED COMPOSITE FILMS	3-O-09
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11-45 – 12-00	<u>Raik S.V.</u> , Skorik Y.A. CATIONIC CHITOSAN DERIVATIVES FOR DNA TRANSFECTION	4-O-07
12-00 – 12-15	<u>Gosteva A.A.</u> , Kolbina G.F., Pavlov G.M. FLOW BIREFRINGENCE OF SOME ALKYLATED COPOLYMERS BASED ON N-VINYL AMIDES	4-O-08
12-15 – 12-30	<u>Khavpachev M.A.</u> , Trofimchuk E.S., Nikonorova N.I. STRUCTURAL-MECHANICAL MODIFICATION OF FIBERS BASED ON POLYLACTIDE BY THE MECHANISM OF CRAZING	4-O-09
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13-30 – 13-45	<u>Volgin I.V.</u> , Borzdun N.I., Nazarychev V.M., Larin S.V., Kenny J.M., Lyulin S.V. POLYMER AND NANOPARTICLE DYNAMICS IN HETEROCYCLIC POLYMER NANOCOMPOSITES	5-O-12
13-45 – 14-00	<u>Wu F.</u> , Luo M.-B. DRIVEN TRANSLOCATION OF SEMI-FLEXIBLE POLYMER THROUGH NANOPORE	5-O-13
14-00 – 14-15	<u>Dobrovskiy A.Yu.</u> , Nazarychev V.M., Larin S.V., Lyulin A.V., Lyulin S.V. INFLUENCE OF STRUCTURAL ORDERING OF THERMOPLASTIC POLYIMIDES ON MECHANICAL PROPERTIES OF NANOCOMPOSITES AT PRESENCE OF SWCNT	5-O-14
14-15 – 14-30	<u>Dedova S.A.</u> , Schneider K., Heinrich G. THERMO-MECHANICAL ANALYSIS OF TEARING ENERGY IN ELASTOMERS UNDER COMPLEX LOADING CONDITIONS	5-O-15
14-30 – 14-45	<u>Nazarychev V.M.</u> , Toshchevnikov V.P., Larin S.V., Lyulin S.V. INVESTIGATION OF LOCAL ORIENTATIONAL AND TRANSLATIONAL MOBILITY OF POLYIMIDE-BASED NANOCOMPOSITES	5-O-16
14-45 – 15-00	<u>Yang X.</u> , Luo M.-B. STUDY ON THE ADSORPTION OF SEMI-FLEXIBLE POLYMER ON HOMOGENEOUS FLAT SURFACE	5-O-17

Section 4. Bio-related and medical polymers		Cafe “Molecule”
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13-45 – 14-00	<u>Kateryuk Y.V.</u> , Korzhikov-Vlakh V.A. LIGHT-SENSITIVE GLYCOSEAMINOGLYCAN/POLY-L-LYSINE NANOGELS FOR TOPICAL SKIN DRUG DELIVERY	4-O-11
14-00 – 14-15	<u>Kosareva D. N.</u> , Taradeiko T.I., Iozep A.A. CHEMICAL MODIFICATION OF ALGINIC ACID BY BIOLOGICALLY ACTIVE SUBSTANCES	4-O-12
14-15 – 14-30	<u>Averianov I.V.</u> , Stepanova M.A., Solomakha O.A., Gofman I.V., Korzhikov-Vlakh V.A., Korzhikova-Vlakh E.G. BIOFUNCTIONALIZATION OF POLYESTER MATERIALS WITH NANOCRYSTALLINE CELLULOSE GRAFTED WITH POLYLACTIDE AND POLY(GLUTAMIC ACID)	4-O-13
14-30 – 14-45	<u>Golyshev A.A.</u> , Skorik Y.A. CARBOXYACYL CHITOSAN DERIVATIVES AS DRUG CARRIERS FOR TAXANES	4-O-14
14-45 – 15-00	<u>Likhodeeva M.N.</u> , Andreeva A.A., Rolich V.I., Kasyanenko N.A. SYNTHESIS OF GOLD NANOPARTICLES USING COPOLYMER	4-O-15
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POSTER PRESENTATIONS

Section 1. *Polymer synthesis and modification*

- 1-P-01** Adzhieva O.A., Roenko A.V., Denisova Yu.I., Gringolts M.L., Shandryuk G.A., Kudryavtsev Y.V.
SYNTHESIS OF NEW MULTIBLOCK NORBORNENE/5-BROMOCYCLOOCTENE COPOLYMERS BY THE MACROMOLECULAR CROSS-METATHESIS REACTION
- 1-P-02** Alyeva A.B., Kolyakina E.V., Grishin D.F.
MODIFICATION OF THE HIGH-MOLECULAR ALKOXYAMINE SYNTHESIZED ON THE BASIS OF NITRONE
- 1-P-03** Arhipova M.A., Roenko A.V., Denisova Yu.I., Gringolts M.L., Shandryuk G.A., Kudryavtsev Y.V.
CROSS-METATHESIS BETWEEN POLYNORBORNENE AND POLY(5-CARBONYLCYCLOOCTENE-1)
- 1-P-04** Bekanova M.Z., Yablanovich A.D., Neumolotov N.K.
INVESTIGATION OF THE COMPLEXATION OF RAFT-BASED POLY(METHYL METHACRYLATE) WITH TERMINAL FUNCTIONAL GROUPS AND CDSE QUANTUM DOTS BY DYNAMIC LIGHT SCATTERING
- 1-P-05** Blokhin A.N., Razina A.B., Tenkovtsev A.V.
ALKYL SULFONYL HALIDES AS INITIATORS FOR CATIONIC POLYMERIZATION OF OXAZOLINES
- 1-P-06** Blokhin A.N., Razina A.B., Bursian A.E., Tenkovtsev A.V.
THERMORESPONSIBLE STAR SHAPED POLYOXAZOLINES WITH CALIX[8]ARENE CORE. THEIR SYNTHESIS AND WATER-SOLUBLE COMPLEXES
- 1-P-07** Chernova E.O., Zolotova Yu.I., Nazarova O.V., Nekrasova N.N., Bezrukova M.A., Dobrodumov A.V., Panarin E.F.
COPOLYMERS OF 2-METHACRYLOYLOXYETHYL-PHOSPHORYLCHOLINE
- 1-P-08** Dobrynin M.V., Islamova R.M.
NEW GRAFT-COPOLYMERS OF HYDROXYETHYL CELLULOSE AND POLYDIMETHYLSILOXANE VIA COPPER-CATALYZED AZIDE-ALKYNE CYCLOADDITION
- 1-P-09** Egorov A.R., Kritchenkov A.S., Dubashynskaya N.V., Skorik Y.A.
PRE-CLICK MODIFICATION OF CHITOSAN
- 1-P-10** Egorov A.R., Badazhkova V.N., Skorik Y.F., Kritchenkov A.S.
SYNTHESIS OF NOVEL CHITOSAN DERIVATIVE BEARING PYRIDINE CYCLE
- 1-P-11** Grigoreva A.O., Zaitsev S.D.
SYNTHESIS AND SELF-ASSEMBLE OF RAFT-COPOLYMERS BASED ON ACRYLIC ACID AND 2,2,3,3,4,4,5,5-OCTAFLUOROPENTYL ACRYLATE
- 1-P-12** Gulii N.S., Goikhman M.Ya., Podeshvo I.V., Loretsyan N.L., Yakimansky A.V.
SYNTHESIS OF POLYMERS AND METAL-POLYMER COMPLEXES WITH BIQUINOLINE UNITS IN THE MAIN CHAIN
- 1-P-13** Hulnik M.L., Vasilenko I.V., Kostjuk S.V.
MICROSTRUCTURE OF POLY(β -MYRCENE) AND POLY(β -MYRCENE-*CO*-STYRENE) SYNTHESIZED VIA LASC-MEDIATED EMULSION CATIONIC POLYMERIZATION
- 1-P-14** Ilgach D.M., Lypenko D., Samokhvalov P.S., Yakimansky A.V.
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