POSTER SESSION PROGRAM

Upper Floor of Auditorium Hall

POSTER SESSION 1

Tuesday, June 28
16^{00} – 17^{30}

1	**STUDY OF THE FLOCCULATION METHOD TO TREAT A SYNTHETIC DYE WASTEWATER OF REACTIVE, DISPERSE AND DIRECT DYESTUFF BY THREE POLY QUATERNARY AMMONIUM SALTS** *Abdelnasir Mahmoud Abdo, Liu Hanxi, Liu Hao, Wang Yinna, Zhang Yue Jun*
2	**CONSTRUCTION OF EFFICIENT ANTIMUTAGENIC SYSTEMS BASED ON POLYCATIONS OF SYNTHETIC AND NATURAL ORIGIN** *V.A.Alexandrova, N.S.Domnina*
3	**PROBING THE INTERACTIONS OF INTRINSICALLY DISORDERED PROTEINS USING NANOPARTICLE TAGS** *Ram Avinery, Stive Pregent, Amir Lichtenstein, Adi Laser-Azogui, Fernando Patolsky, Roy Beck*
4	**SYNTHESIS AND PROPERTIES OF NATURAL POLYSACCHARIDES AS CARRIERS OF ANTITUBERCULAR DRUGS** *Erkesh Batyrbekov & Aiganym Ismailova*
5	**EFFECT OF XANTHAN GUM AND SODIUM CARBOXYMETYLCELLULOSE ON THE RHEOLOGICAL PROPERTIES AND ZETA POTENTIAL OF BENTONITE SUSPENSIONS** *Abdelbaki Benmounah, Khaled Benyounes, Djamal Eddine Djemiat, Brahim Safi, Mohammed Saidi*
6	**EFFECT OF POLY (ETHYLENE-CO-VINYL ACETATE) (EVA) ON THE RHEOLOGICAL PROPERTIES OF ALGERIAN CRUDE OIL** *Djamal Eddine Djemiat, Abdelhamid Safri, Abdelbaki Benmounah, Brahim Safi, Khaled Benyounes*
7	**ELECTROCHEMICAL CHARACTERIZATION OF NEW ELECTRONWITHDRAWING METHANE FULLERENES** *Yuliya Biglova, Akhat Mustafin, Mansur Miftakhov*
8	**LABEL-FREE ELECTROCHEMICAL DETECTION OF INTERACTIONS OF DNA WITH POLYANILINE COMPOSITE MATERIALS** *Zhanna Boeva, Vladimir Sergeyev, Kalle Levon*
9	**BEHAVIOUR OF THERMOSENSITIVE N-ISOPROPYLACRYLAMIDE MICROGELS IN AQUEOUS SOLUTIONS OF ALCIAN BLUE** *Daria Bogdashkina, Kristina Dashyan, Tigran Baluyan, Elena Makhaeva*
10	**ABSORPTION PROREPTIES OF PNIPAM-BASED THERMORESPONSIVE HYDROGELS** *Ilya Rebrin, Daria Bogdashkina, Elena Makhaeva*

11	**STABILIZATION EFFECT OF PEO ON SELF-ASSEMBLY BEHAVIOR OF LIQUID CRYSTALLINE POLYION-SURFACTANT COMPLEX SALTS OF PNIPAM** *Nathalia M. Carneiro, Watson Loh*
12	**MODELLING TITRATION CURVES OF FULLERENEHEXAMALONIC ACID** *Janez Cerar*
13	**ANAEROBIC SLUDGE FLOCCULATED AND DEHYDRATED BY CATIONIC POLYACRYLAMIDE** *Tingting Chen, Yuejun Zhang, Xiaolei Zhao, Yin Hou, Bin Huang*
14	**IN SITU FORMATION OF CORE-SHELL PARTICLES INDUCED BY RAFT-BASED POLYELECTROLYTES** *Elena Chernikova, Anna Plutalova, Ksenia Mineeva, Natalia Serkhacheva, Andrey Tolkachev, Oleg Smirnov, Nikolay Prokopov*
15	**RAFT POLYMERIZATION AS AN INSTRUMENT FOR SYNTHESIS OF OLIGOMERIC POLYELECTROLYTES OF VARIOUS FUNCTIONALITIES** *Elena Chernikova, Anna Plutalova, Dmitry Vishnevetsky, Ksenia Mineeva, Vladimir Duflot, Natalia Serkhacheva*
16	**SELF-ORGANIZATION OF PROTEIN-SURFACTANTS MIXTURES AT THE LIQUID-AIR, AND LIQUID-LIQUID INTERFACES AS STUDIED BY TRITIUM PROBE APPROACH** *Maria Chernysheva, Gennadii Badun, Irina Razzhivina*
17	**RADIONUCLIDES DIAGNOSTICS OF ALBUMIN ADSORPTION ON THE SURFACE OF CARBON-BASED NANOMATERIALS** *Maria Chernysheva, Alexey Garshev, Alexandr Ksenofontov, Gennadii Badun*
18	**EFFECTS OF SURFACE AND SALT PROPERTIES ON THE ION DISTRIBUTION AROUND SPHERICAL MACROION** **A MONTE CARLO STUDY** *Arnaud Clavier, Fabrice Carnal, Serge Stoll*
19	**COMPUTER SIMULATION OF CHARGED BOTTLE-BRUSHES WITH BRANCHED SIDE CHAINS** *Anatoly Darinskii, Ivan Mikhailov, Oleg Shavikin*
20	**SIZE OF MEDIUM CHARGED MACROMOLECULES AT DIFFERENT IONIC STRENGTH OF SOLUTIONS** *Olga Dommes, Olga Okatova, Irina Gavrilova, Evguenii Panarin, Georges Pavlov*
21	**INTERPOLYELECTROLYTE COMPLEXES OF LYSOZYME WITH POLY[DI(CARBOXYLATOPHENOXY)PHOSPHAZENE]: BINDING ENERGETICS AND PROTEIN CONFORMATIONAL STABILITY** *Tatiana Burova, Natalia Grinberg, Alexander Dubovik, Elena Olenichenko, Victor Orlov, Valerij Grinberg*

22	**POLYMERIZATION OF TRIMETHYL[METHACRYLOXYETHYL]AMMONIUM METHYL SULFATE IN MICELLAR SOLUTION OF SODIUM ALKYL SULFATES AND PROPERTIES OF OBTAINED POLYELECTROLYTES** *Ekaterina G. Dukhanina, Yulia V. Shulevich, Alexander V. Navrotskii, Ivan A. Novakov*
23	**ADSORPTION OF CHARGED PATCHY PARTICLES TO POLYELECTROLYTE BRUSHES** *Cemil Yigit, Matej Kanduc, Matthias Ballauff, Joachim Dzubiella*
24	**CORE–SHELL BIODEGRADABLE MULTILIPOSOMAL CONTAINERS** *A.A.Efimova, A.V.Sybachin, A.A. Yaroslavov, S.N.Chvalun, A.I.Kulebyakina, E.V. Kozlova*
25	**LIQUID AND SOLID ANIONIC LIPOSOMES CONTAINING CHOLESTEROL IN CONTACT WITH SYNTHETIC POLYCATION** *S.N. Kostenko, A.A.Efimova, A.A.Yaroslavov*
26	**CHITOSAN-COATED SERS SUBSTRATES FOR ENHANCED OPTICAL ANALYSIS** *Olga Eremina, Natalya Borzenkova, Alexander Sidorov , Evgeny Goodilin, Irina Veselova, Tatyana Shekhovtsova*
27	**PROTEIN SYNTHESIS IN MULTI-COMPARTMENT HYDROGELS** *Thomas Heida, Carolin Heller, Laura Leun, Andreas Fery, Julian Thiele*
28	**CATIONIC POLYELECTROLYTE WITH HYDROPHOBIC UNITS: SYNTHESIS AND CHEMICAL MODIFICATIONS** *P. Fetin, I. Zorin, M. Povshednaya, A. Lezov, A. Bilibin*
29	**SYNTHESIS OF INTERPOLYELECTROLYTE NANOPARTICLES WITH CONTROLLED SIZE** *P. Fetin, I. Zorin, M. Povshednaya, A. Lezov, A. Bilibin*
30	**FLOCCULATION OF KAOLIN AQUEOUS DISPERSION BY TWO CATIONIC POLYELECTROLYTES** *Ksenia Fotina, Svetlana Dryabina, Alexander Navrotskii, Ivan Novakov*
31	**EFFECTS OF ORGANIC FLOCCULANTS ON THE DEWATERING CHARATERISTICS OF AEROBIC SLUDGE** *Xingqin Fu, Yuejun Zhang, Ying Hou, Xuepeng Zhong, Bin Huang*
32	**DYNAMICS AND RELAXATION OF CHARGE CARRIERS IN PMMA-$LiClO_4$ BASED POLYMER ELECTROLYTES PLASTICIZED WITH ETHYLENE CARBONATE** *A. Ghosh*
33	**INTERACTION OF HYDROPHOBICALLY MODIFIED POLYELECTROLYTE GELS WITH SURFACTANTS** *Yuliya D. Gordievskaya, Artem M. Rumyantsev, and Elena Yu. Kramarenko*

34	**POLYELECTROLYTE COMPLEXES OF NATURAL POLYSACCHARIDES: PREPARATION AND PROPERTIES** *M. Yu. Gorshkova, I. F.Volkova, E. S. Grigoryan*
35	**COMPLEX FORMATION IN THE MIXTURES OF POLYACIDS WITH Fe^{3+} IONS IN AQUEOUS MEDIA** *M.Yu. Gorshkova, I.F.Volkova, E.S. Grigoryan, Z.D. Voronina*
36	**AGGREGATION OF POLYSTYRENESULFONATE IN DILUTE AQUEOUS SOLUTION INDUCED BY SPECIFIC INTERACTION WITH Ba^{2+} CATIONS** *Markus Hansch, Ralf Schweins, Klaus Huber*
37	**INTRAMOLECULAR COMPLEXATION WITHIN COPOLYMERS: THE EFFECT OF TOPOLOGY AND COMPOSITION** *Pascal Hebbeker, Alexander A. Steinschulte, Felix A. Plamper, Stefanie Schneider*
38	**THIOL-MODIFIED ANIONIC COPOLYMERS FOR QUANTUM DOT'S FUNCTIONALYZATION AND BIOCONJUGATION** *Sergey Dezhurov, Sagila Ibragimova, Dmitry Krilsky*
39	**THERMAL STABILITY OF POLY(DIALLYLDIMETHYLAMMONIUM CHLORIDE) WITH DIFFERENT MOLECULAR WEIGHT** *Xu Jia, Xinhua Zhan, Jiao Xie, Yuejun Zhang*
40	**STUDY OF INTERACTION OF CATIONIC AGENTS WITH DNA AND SMALL INTERFERING RNA FOR THE CONSTRUCTION OF DELIVERY SYSTEMS** *Ivan Unksov, Alexandr Slita, Alexandra Petrova, Igor Pereviazko, Vladimir Bakulev, Valery Rolich, Andrey Bondarenko, Nina Kasyanenko*
41	**MOLECULAR AND CONFORMATIONAL CHARACTERISTICS OF PECTIN POLYELECTROLYTES** *Djurabay Khalikov, Raisa Gorshkova*
42	**NANOCOMPOSITE MEMBRANEOUS VESICLES BASED ON THE INTERFACIAL COMPLEXES OF POLYELECTROLYTES, AMPHIPHILES AND NANOPARTICLES** *Gennady Khomutov, Vitaly Kim, Yury Koksharov, Kirill Potapenkov, Alexander Yaroslavov, Elena Yaroslavova, Andrey Sybachin, Vasily Faikin, Vladimir Vdovin, Igor Taranov, Valery Tiukavin, Vladimir Cherepenin, Yury Gulyaev*
43	**MULTILAYER-COATED LIQUID CRYSTALLINE NANOPARTICLES FOR EFFECTIVE TREATMENT OF CANCER** *Raj Kumar Thapa, Yong Joo Choi, Dong Shik Kim, Han-Gon Choi, Chul Soon Yong, Jong Oh Kim*
44	**NANOHYBRID LIPOSOMAL NANOPARTICLES TO INHIBIT HYPOXIC TUMOR GROWTH** *Ju Yeon Choi, Toe Gyung Go, Dong Shik Kim, Han-Gon Choi, Chul Soon Yong, Jong Oh Kim*

45	**FUNCTIONALIZATION OF PET TRACK-ETCHED MEMBRANES WITH GRAFTED POLYELECTROLYTES** *Ilya Korolkov, Anastassiya Mashentseva, Olgun Güven, Maxim Zdorovets*
46	**STABILITY OF THE BLOCK-COPOLYMER CONCENTRATED MICELLES** *P. Kos, A. Gavrilov, A. Chertovich*
47	**CHARGE-CONTROLLED NANOPATTERNING IN PARTIALLY COLLAPSED STAR-SHAPED MACROMOLECULES** *Filip Uhlík, Peter Košovan, Ekaterina B. Zhulina, and Oleg Borisov*
48	**AMPHIPHILIC FLUORINATED BLOCK-COPOLYMER FORMATION INDUCED BY RAFT-BASED POLYELECTROLYTES** *Elena Yu. Kozhunova, Elena Chernikova, Anna Plutalova, Irina Nasimova, Natalia Serkhacheva, Andrey Tolkachev*
49	**LAYER-BY-LAYER THIN FILMS OF INTERPOLYELECTROLYTE COMPLEXES CONTAINING GOLD NANOPARTICLES** *Gulnur Tatykhanova, Nurlan Bakranov, Sarkyt Kudaibergenov*
50	**TITRATION OF WEAK POLYELECTROLYTES: A WANG-LANDAU APPROACH** *Jonas Landsgesell, Jens Smiatek, Christian Holm*
51	**THE EFFECT OF COUNTERION STRUCTURE ON CONFORMATIONAL, OPTICAL AND ELECTROOPTICAL PROPERTIES OF POLYELECTROLYTE SURFACTANT COMPLEX IN ORGANIC SOLVENT** *Nikolay Tsvetkov, Aleksey Lezov, Nina Mikusheva, Mariya Mikhailova, Aleksandr Gubarev, Igor Perevyazko, Liliya Akhmadeeva, Anna Podsevalnikova, Elena Lebedeva, Igor Kolomiets, Ivan Zorin, Tatiana Shcherbinina, Alexander Bilibin*
52	**HYDRODYNAMIC ANALYSIS OF CATIONIC POLYMERS: POLY(N,N-DIMETHYLAMINOETHYL) METHACRYLATE** *Igor Perevyazko, Alexey Lezov, Alexander Gubarev, Carlos Guerrero Sanchez, Nikolay Tsvetkov*
53	**PROPERTIES OF POLY(ACRYLIC ACID) AND ITS SALTS IN AQUEOUS SOLUTIONS** *Anastasiya Logunova, Eugene Sivtsov*
54	**THIN AND UNIFORM POLYELECTROLYTE COMPOSITE MULTILAYERS AS CERAMIC COATING ON SEPARATOR FOR LITHIUM-SULFUR BATTERIES** *Almagul Mentbayeva, Zhanar Seitzhan, Indira Kurmanbayeva, Zhumabay Bakenov*
55	**INVESTIGATION OF METHACRYLATE GUANIDINE AND METHACRYLOYLGUANIDINE HYDROCHLORIDE POLYMERIZATION AND ALSO OF ITS CO-POLYMERIZATION WITH DIALLYLDIMETHYLAMMONIUM CHLORIDE** *Marat Menyashev, Natalya Kleshcheva, Nikolay Sivov*

56	**POLYMERS AND CO-POLYMERS OF METHACRYLOYLGUANIDINE TRIFLUOROACETATE** *Marat Menyashev, Natalya Kleshcheva, Alla Martynenko, Nadezhda Popova, Nikolay Sivov*
57	**NANOCARRIERS BASED ON CHITOSAN *Bombyx mori* FOR BIOMEDICAL APPLICATION** *Rakiya Milusheva, Cornelia Palivan, Sayera Rashidova*
58	**HYDROPHILIC PRESSURE SENSITIVE ADHESIVES BASED ON POLYELECTROLYTE COMPLEXES** *Alexander Moscalets, Artemii Gamov, Tatyana Kiseleva, Mikhail Feldstein*
59	**SYNTHESIS OF POLYMERS BASED ON THE LACTIC AND CITRIC ACID** *M.G. Mukhamediev, S.M. Khazratkulova, I.B. Gulamova, M.A. Mahkamov, Peter Lieberzeit*
60	**STUDY OF SORPTION OF HEAVY METALS WITH NITROGEN – AND PHOSPHORUS CONTAINING POLYAMPHOLYTES** *M.G. Mukhamediev, D.J. Bekchanov*
61	**POLYELECTROLYTES AND GREEN ENERGY** *Grigoriy Mun, Ibragim Suleimenov, Oleg Gabrielyan*
62	**POLYELECTROLYTE-STABILIZED Tb(III), Eu(III) AND Gd(III) COMPLEXES WITH 1,3-DIKETONES FOR SENSING AND IMAGING** *Nataliya Shamsutdinova, Rustem Zairov, Asiya Mustafina, Sergey Podyachev, Svetlana Sudakova, Irek Nizameev, Marsil Kadirov, Rustem Amirov*
63	**SWELLING DEGREE AND ELASTICITY OF TETRA-PEG GELS CONTAINING LINEAR POLYELECTROLYTE** *Tasuku Nakajima, Ken-ichi Hoshino, Takayuki Kurokawa, Jian Ping Gong*
64	**ULTRAFILTRATION MEMBRANES BASED ON SULFONATE CONTAINING AROMATIC CO-POLYAMIDES: THE INFLUENCE OF ELECTROSTATIC COOPERATION MEMBRANE/PROTEIN ON ADSORPTION AND MASS-EXCHANGE PROPERTIES** *Irina Nebukina, Aleksandra Berezovskaja, Natalya Smirnova*
65	**MOLECULAR DYNAMICS OF DENDRIGRAFTS WITH DIFFERENT DEGREE OF BRANCHING** *Igor Neelov, Maxim Ilyash, Boris Okrugin*
66	**SIMULATION OF LYSINE DENDRIMERS IN DIFFERENT SOLVENTS** *Maxim Ilyash, Oleg Shavykin, Boris Okrugin, Igor Neelov*
67	**THE FORMATION OF CHITOSAN COMPOSITES WITH METAL NANOPARTICLES IN THE BIOCOMPATIBLE SOLVENT CARBONIC ACID** *Ilya V. Novikov, Marina A. Pigaleva, Marat O. Gallyamov*
68	**RHEOLOGICAL AND FILTRATION PROPERTIES OF THE MIXTURE OF ANIONIC POLYSACCHARIDES – GELLAN AND XANTHAN** *Zhanara Nurakhmetova, Yana Pesiridi, Vladimir Sigitov, Sarkyt Kudaibergenov*

POSTER SESSION 2

Wednesday, June 29

15^{30} – 17^{00}

69	**INTERPOLYMER COMPLEX FORMATION OF POLY(N-ISOPROPYLACRYLAMIDE) MICROGEL WITH POLY(ACRYLIC ACID)** *Kazuyoshi Ogawa*
70	**LIGHT SCATTERING BEHAVIOR OF THE COMPLEX FORMED BETWEEN Cu(II) IONS AND MICROGEL CONSISTING OF NISOPROPYLACRYLAMIDE AND N-VINYLIMIDAZOLE** *Kazuyoshi Ogawa*
71	**POLYELECTROLYTES FOR BIOMEDICAL APPLICATION, THEIR MOLECULAR AND CONFORMATIONAL PROPERTIES** *Pavlov G.M., Panarin E.F.*
72	**LIQUID POLYELECTROLYTE MEMBRANES** *Sergey Panchenko, Ibragim Suleimenov, Dina Shaltykova, Grigoriy Mun*
73	**COMPETITIVE INTERACTIONS IN THE MULTICOMPONENT SYSTEM CONTAINING POLYCATIONIC NETWORK, STAR-SHAPED POLYANION, AND CATIONIC SURFACTANT** *Tatiana Panova, Sergey Zezin, Valentina Rogacheva, Alexander Zezin*
74	**INTERPOLYELECTROLYTE COMPLEXES OF POLY(PYRIDINIUM) – POLY(STYRENE SULFONATE): ELECTROCHROMIC PROPERTIES** *Mikhail Petrov, Roman Pichugov, Mukhamed Keshtov, Elena Makhaeva*
75	**EFFECT OF CARBON NANOTUBES ON THE ELECTROCHROMIC PROPERTIES OF POLY(PYRIDINIUM TRIFLATE)** *Roman Pichugov, Inna Malyshkina, Elena Makhaeva*
76	**POLYCATIONIC N-VINYLPYRROLIDONE COPOLYMERS AS CARRIERS FOR GENE DELIVERY** *Ksenia Polyanichko, Pavel Chelushkin, Marina Dorosh, Irina Gavrilova, Alexander Efremov, Sergey Orlov, Evguenii Panarin, Sergey Burov*
77	**BLOCK COPOLYMER MICELLES BASED ON PLA AND PEG WITH CRYSTALLINE AND AMORPHOUS CORES** *Ekaterina Razuvaeva, Alevtina Kulebyakina, Dmitriy Streltsov, Sergey N. Chvalun*
78	**EFFECT OF POLYCATIION ON RADIATION EFFICIENCY AND H_2O_2-BASED CYTOTOXICITY OF PEROXYOXALATE CHEMILUMINESCENT EMULSION** *Andrey Romanyuk, Maxim Zotkin, Irina Grozdova, Nickolay Melik-Nubarov*
79	**THE PHENOMENON OF ION BINDING WITHIN A POLYELECTROLYTE GEL PARTICLE AS THE WAY OF SEAWATER DESALINATION** *Oleg Rud, Peter Kosovan, Oleg Borisov*

80	**DISTINGUISHING BACTERIAL SPECIES BY SIMPLE ELECTROSTATIC METHOD** *Yaroslav Rybkin, Dmitry Gorin, Gleb Sukhorukov, Aleš Lapanje*
81	**SELF-ASSEMBLY OF HYDROPHOBIC POLYBETAINE BASED ON (TRIDECYL)AMINOCROTONATE AND METHACRYLIC ACID** *A. Shakhvorostov, Zh. Nurakhmetova, N. Nuraje, S. Kudaibergenov*
82	**THE OBTAINING OF CATALYST WITH METHOD MULTILAYER BY ASSEMBLY ON THE BASIS POLYELECTROLYTES** *A.K. Ospanova, A. Mentbaeva, Zh.H. Tashmuhambetova, B.E. Savdenbekova, A. Berkynbaeva*
83	**OBTAINING OF ANTIBACTERIAL COATING WITH METHOD MULTILAYER ASSEMBLY ON THE BASIS POLYELECTROLYTES** *A.K. Ospanova, R.A. Omarova, M.K. Iskakova, R.N. Zhartybaev, B.E. Savdenbekova, N.K. Zhumagulova*
84	**BEHAVIOR OF POLYELECTROLYTES IN PAPERMAKING PROCESS IN DEPENDENCE ON THE SOLUTION TECHNOLOGY** *Mandy Mende, Simona Schwarz*
85	**DEPENDENCE OF IONOMER MEMBRANE PROPERTIES MODIFIED BY DODECYLPYRIDINIUM CHLORIDE ON THE DEGREE OF SURFACTANT INCORPORATION** *Olga A. Novoskoltseva, Olga I. Aglamazova, Yulya A. Zakharova, Olga A. Pyshkina, Vladimir G. Sergeyev*
86	**MIXED CONDUCTING COMPOSITE FILMS BASED ON SULFONATED POLY(PHENYLENE OXIDES) AND POLYANILINE** *Aleksei V. Kubarkov, Olga A. Pyshkina, Vladimir G. Sergeyev*
87	**STRUCTURAL INSTABILITIES IN MYELIN SHEATH MEMBRANES** *Rona Shaharabani, Maor Ram-On, Ram Avinery, Rina Aharoni, Ruth Arnon, Yeshayahu Talmon & Roy Beck*
88	**CONJUGATES OF THE FLUORESCENT DYES WITH THE NATURAL POLYELECTROLYTES FOR MOLECULAR TRANSPORT VISUALIZATION** *Mikhail N. Shaposhnikov, Ilia S. Zaitsev, Sergei Yu. Zaitsev*
89	**CHITOSAN BIONANOCOMPOSITES WITH VARIOUS TYPES OF NANOPARTICLES PREPARED IN SELF-ORGANIZED REGIME** *Irina Postnova, Sergei Sarini, Vladimir Silant'ev, Yury Shchipunov*
90	**LAYER-BY-LAYER FILMS AND NANOCAPSULES BASED ON POLYETHYLENE GLYCOL- AND DEXTRAN-GRAFTED CHITOSANS** *Tatsiana Shutava, Kanstantsin Livanovich*
91	**CHITOSAN-*graft*-POLYETHYLENE GLYCOL / DEXTRAN SULFATE NANOCAPSULES FOR ENCAPSULATION OF HYDROPHOBIC ANTICANCER DRUGS** *Tatsiana Shutava, Tatiana Suhan, Vladimir Kostyuk*

92	**WANG-LANDAU SIMULATION OF STAR-SHAPED POLYELECTROLYTES** *Irina Silanteva, Pavel Vorontsov-Velyaminov*
93	**STRUCTURE-ACTIVITY RELATIONSHIPS AMONG MYCOBACTERICIDAL PROTONATED POLY(DIALLYLAMINES): IDENTIFICATION OF POLYMERS WITH THE HIGHEST ACTIVITY AGAINST *MYCOBACTERIUM TUBERCULOSIS*** *Yulia Simonova, Kseniia Trutneva, Margarita Sheeva, Arseny Kapreliants, Larisa Timofeeva*
94	**INFLUENCE OF WATER PURITY ON POLYMERIZATION KINETICS OF PROTONATED DIALLYLAMMONIUM MONOMERS IN AQUEOUS SOLUTIONS AND MM OF POLYMERS** *Yulia Simonova, Marina Filatova, Alla Melenteva, Larisa Timofeeva*
95	**NEW GUANIDINE CONTAINING (CO) POLYMERS ON THE BASE OF HYDROPHYLIC AND HYDROPHOBIC VYNIL MONOMERS: SYNTHESIS AND PROPERTIES** *Nikolai Sivov*
96	**METHACRYLOYLGUANIDINE ACETATE AND ITS POLYMERS AND COPOLYMERS** *Nikolai Sivov, Natalya Kleshcheva, Alla Martynenko, Nadezhda Popova*
97	**AQUEOUS SOLUTIONS PROPERTIES OF POLY(ACRYLIC ACID)S HAVING ANCOR HYDROPHOBIC UNITS DIFFERENTLY DISTRIBUTED IN THE POLYMER CHAINS** *Eugene Sivtsov, Alexey Gostev*
98	**MAGNETIC POLYMER "CROSS-LINKED SODIUM ALGINATE MAGHEMITE" NANOGELS** *Vasily Spiridonov, Irina Panova, Valery Kuznetsov, Andrey Sybachin, Alexander Yaroslavov*
99	**SOME FEATURES OF POLYELECTROLYTE BEHAVIOR AND NANOSTRUCTURE OF SODIUM POLYACRYLAMIDO-2-METHYL-1-PROPANESULFONATE CRYOGELS** *Sergey Starodubtsev, Irina Nasimova, Vladimir Volkov*
100	**NEURAL NETWORKS AND MOLECULAR PROGRAMMING** *Ibragim Suleimenov, Sergey Panchenko, Oleg Gabrielyan*
101	**FRACTURE BEHAVIORS OF TOUGH AND SELF-HEALING POLYAMPHOLYTE HYDROGELS** *Tao Lin Sun, Feng Luo, Tasuku Nakajima, Sadia Nazneen Karobi, Takayuki Kurokawa, Jian Ping Gong*
102	**COMPLEXES OF STAR-SHAPED CATIONIC POLYELECTROLYTES WITH STIMULI-RESPONSIVE ANIONIC LIPOSOMES** *Olga Zaborova, Kristina Imelbaeva, Felix Plamper, Vasily Migulin, Vyacheslav Samoshin, Irina Grishina, Polina Veremeeva, Vladimir Palyulin, Andrey Sybachin*

103	**MESOSCOPIC SIMULATIONS OF POLYELECTROLYTES IN CONFINED GEOMETRIES** *Kai Szuttor, Jens Smiatek, Christian Holm*
104	**THE INFLUENCE OF CHARGED INDUCED VARIATIONS IN THE LOCAL PERMITTIVITY ON THE STATIC AND DYNAMIC PROPERTIES OF POLYELECTROLYTE SOLUTIONS** *Florian Fahrenberger, Owen A. Hickey, Kai Szuttor, Jens Smiatek, Christian Holm*
105	**CONCENTRATION AND TEMPERATURE BEHAVIOR OF EQUIVALENCE CONDUCTIVITY OF AQUEOUS SOLUTIONS OF DIALLYLAMMONIUM-BASED POLYELECTROLYTES WITH DIFFERENT AMINE STRUCTURE AND COUNTERANIONS** *Balakaeva I.V., Lileev A.S., Simonova Y.A., Lyashchenko A.K., Timofeeva L.M.*
106	**DYNAMIC HETEROGENEITY IN GELATIN SOLUTIONS DURING CROSS-LINKING** *Wei Hong, Weixiang Sun, Zhen Tong*
107	**TEMPERATURE-INDUCED SHRINKING OF SUBMICRON CAPSULES CONSISTING OF NATURAL POLYMERS** *Daria Trushina, Tatiana Bukreeva, Maria Antipina*
108	**THE EFFECT OF PULSED LASER RADIATION ON POLYELECTROLYTE CAPSULE SHELLS MODIFIED WITH RHODAMINE 6G AND FLUORESCEIN ISOTHIOCYANATE** *Irina Marchenko, Daria Trushina, Gennadiy Plotnikov, Anatoliy Baranov, Aleksandr Saletsky and Tatiana Bukreeva*
109	**SELF-ASSEMBLY OF AMPHIPHILIC MACROMOLECULES INTO STRANDS IN POLYMER BRUSH** *Daniil E. Larin, Alexey A. Lazutin, Elena N. Govorun, Valentina V.Vasilevskaya*
110	**COMPLEX FORMATION – AN EFFECTIVE WAY OF MODIFICATION OF PROPERTIES OF A CHITOSAN** *Rashidova S. Sh., Vokhidova N. R.*
111	**DIELECTRIC RELAXATION ANOMALIES IN POLY(ACRYLIC ACID) AND THEIR RELATIONSHIP WITH "CRITICAL" POINTS OF WATER** *Andrey Vorobiev, Nadezhda Gavrilova, Elena Makhaeva, Vitali Novik, Inna Malyshkina*
112	**NEGATIVE DIELECTRIC PERMITTIVITY OF POLY(ACRYLIC ACID) PRESSED PELLETS** *Andrey Vorobiev, Nadezhda Gavrilova, Elena Makhaeva, Vitali Novik, Inna Malyshkina*
113	**CATIONIC POLYTHIOPHENE AS PROMISING CO-CATALYST FOR CO_2 PHOTOREDUCTION** *Chuen-Yo Hsiow, Yi-Chun Yeh, Rathinam Raja, Wen-Chuan Lee, Syang-Peng Rwei, and Leeyih Wang*
114	**POTENTIAL OF MEAN FORCE BETWEEN OPPOSITELY CHARGED POLYELECTROLYTES** *Xiao Xu, Matej Kanduč, Jianzhong Wu, and Joachim Dzubiella*

115	**CHEMICAL MODIFICATION EFFECT ON HYDRODYNAMIC BEHAVIOR OF GLUCOPYRANOSE POLYMERIC DERIVATIVES** *Natalia Yevlampieva, Boris Okrugin, Mariya Sljusarenko*
116	**FUNCTIONAL POLYMER MULTILAYERS WITH IMMOBILIZED BIOLOGICALLY ACTIVE COMPOUNDS** *Sergei Yu. Zaitsev*
117	**SUPRAMOLECULAR COMPLEXES BASED ON LIPASE AND POLYELECTROLYTES** *Anastasia A. Savina, Daria O. Solovyeva, Sergei Yu. Zaitsev*
118	**CONTROL OF NUCLEATION AND GROWTH OF METAL NANOPARTICLES IN IRRADIATED POLYELECTROLYTES** *Alexey A Zezin, Vladimir I Feldman, Elena A Zezina, Galina F Prozorova, Sergei S Abramchuk*
119	**RESEARCH PROGRESSES OF SYNTHESIS AND APPLICATION OF HIGH PURITY DMDAAC MONOMER AND ITS POLYMER** *Yuejun Zhang*
120	**BACTERICIDAL MECHANISM OF PDMDAAC WITH SERIES INTRINSIC VISCOSITY VALUES** *Xiaolei Zhao, Yuejun Zhang*