

# SYMPOSIUM SCHEDULE

<b>2 July</b>		
<b>11:00–16:00</b>	Registration	
<b>18:00–22:00</b>	Welcome reception	
<b>3 July</b>		
<b>9:00:10:00</b>	Opening ceremony Rector of Tbilisi Javakhishvili State University Chairmen and Co-chairmen of Symposium	
<b>Invited Presentations</b>		
<b>Co-chairmen:</b> Prof. Helena Janik, Prof. Nodar Lekishvili		
<b>10:00:10:20</b>	<i>Marc J.M. Abadie</i> – “Controlling interface/interphase - a challenge for composites and nanocomposites”. <i>Institute Charles Gerhardt of Montpellier - Aggregates, Interfaces and Materials for Energy (ICGM – AIME, UMR CNRS 5253)</i> <i>University of Montpellier, Place Bataillon, 34095 Montpellier Cedex 5, France</i>	1
<b>10:20:10:40</b>	<i>Ullrich Scherf</i> – “Electrogenerated thin films of microporous polymer networks with remarkably increased electrochemical response to nitroaromatic analytes”. <i>Chemistry Department, BUWMakro group, and Institute for Polymer Technology, Bergische Universität Wuppertal (BUW), Gauss-Str. 20, D-42119 Wuppertal, Germany</i>	2
<b>10:40:11:00</b>	<i>Helena Janik</i> – “Aliphatic polyurethane scaffolds for bone tissue engineering”. <i>Gdańsk University of Technology, Chemical Faculty, Polymer Technological Department. 11/12 Narutowicza Street, 80-232 Gdansk. PL</i>	3
<b>Coffee Break 11:00:11:20</b>		
<b>Invited Presentations</b>		
<b>Co-chairmen:</b> Prof. Ullrich Scherf, Prof. Ramaz Katsarava		
<b>11:20:11:40</b>	<i>Jozef Haponiuk</i> – “Use of algae biomass liquefaction products to obtain polyurethane foam materials”. <i>Gdansk University of Technology, Chemical Faculty, Polymer Technology Department, Narutowicza 11/12 St., 80-233 Gdansk, Poland,</i>	4
<b>11:40:12:00</b>	<i>Marta E. Plonska-Brzezinska</i> – “Composites containing carbon nano-onions and polymers”. <i>Faculty of Biology and Chemistry, University of Bialystok, Ciolkowskiego 1K, 15-245 Bialystok, Poland</i>	5
<b>12:20:12:40</b>	<i>M. Bratychak</i> – “Azocompounds with epoxy groups and oligomers on	6

	their basis” <i>Lviv Polytechnic National University, S.Bandery St., 12, 79013 Lviv, Ukraine</i>	
<b>12.40: 13.00</b>	<i>Krzysztof Brzezinski</i> – “Exploring the nature of biological macromolecule- ligand interactions through multidisciplinary approaches”. <i>Faculty of Biology and Chemistry, University of Bialystok, Ciolkowskiego 1K,15-245 Bialystok, Poland</i>	7
<b>Lunch break</b>	<b>13.00:14.00</b>	
<b>Oral Presentations</b>		
<b>Co-chairmen:</b>	Prof. Marc J.M. Abadie, Prof. V. Tskhovrebashvili	
<b>14.00:14.15</b>	<i>S. Grabska</i> - “Characterization of 3d collagen materials with magnetic properties”. <i>Nicolaus Copernicus University in Toruń, Faculty of Chemistry, Department of Chemistry of Biomaterials and Cosmetics, Gagarin 7, 87-100 Toruń, Poland</i>	8
<b>14.15:14.30</b>	<i>I. Savchenko</i> – “Lanthanide coordination polymers based $\beta$ -dicarbonyl ligands”. <i>Kyiv National Taras Shevchenko University, Department of Chemistry</i>	9
<b>14.30:14.45</b>	<i>J. M. Hutchinson</i> – “Thermal conductivity of epoxy-thiol composites filled with boron nitride”. <i>Departament de Màquines i Motors Tèrmics, ESEIAAT, Universitat Politècnica de Catalunya, Colom 11, 08222 Terrassa, Spain</i>	10
<b>14.45:15.00</b>	<i>B. Kaczmarek</i> – “The characterization of chitosan/collagen scaffolds with glycosaminoglycans addition”. <i>Department of Chemistry of Biomaterials and Cosmetics, Faculty of Chemistry, Nicolaus Copernicus University, Toruń, Poland</i>	11
<b>15.00:15.15</b>	<i>N.A. Durgaryan</i> – “General method for aromatic imino group containing polymers syntheses”. <i>Yerevan State University, A. Manoogian 1, Yerevan 0025, RA</i>	12
<b>15.15:15.30</b>	<i>A. Peikrishvili</i> – “One stage production of superconducting $\text{MgB}_2$ and hybrid power transmission lines by the hot shock wave consolidation technology”. <i>F. Tavadze Institute of Metallurgy and Materials Science, E. Mindeli str., 10, 0186 Tbilisi, Georgia</i>	13
<b>15.30:15.45</b>	<i>N. Zavrashvili</i> – “Highly charged biodegradable cationic polymers: synthesis and assessment of biological activity”. <i>Institute of Chemistry and Molecular Engineering, Agricultural University of Georgia, Kakha Bendukidze University Campus, # 240 David Aghmashenebeli Alley, 0159, Tbilisi, Georgia</i>	14
<b>15.45:16.00</b>	<i>Funda Aydin</i> – “Synthesis, characterization , and application for solid phase extraction of trace metals combined with faas of a new silica gel-immobilized Schiff base derivative”. <i>Yüzüncü Yıl University, Faculty of Pharmacy, Department of Basic Sciences, 65080, Van, Turkey</i>	15
<b>16.00:16.15</b>	<i>V.M. Farzaliyev</i> - “Chemically modified viscous additive polyalkylmethacrylate type”. <i>Institute of Chemistry of Additives named after Academician A.M.Quliyev of National Academy of Sciences of Azerbaijan Republic, Az1029, Baku, Beyukshor highway,</i>	16

	<i>quarter 2062</i>	
<b>16.15:16.30</b>	<i>J. Aneli – “Absorbing radio waves polymer composites with electrical and magnetic fillers”. R. Dvali Institute of Machine Mechanics, Mindeli Str.10, Tbilisi 0186 Republic of Georgia</i>	17
<b>16.30:16.45</b>	<i>T. Agladze – “The mechanism of silver core-oleic acid shell interactions”. Department of Chemical Technology and Biotechnology, Georgian Technical University, Tbilisi, Kostava str.77, 0175 Tbilisi, Georgia</i>	18
<b>16.45:17.00</b>	<i>T. Gulashvili – “Ambient temperature transition-metal-free dissociative electron transfer reversible addition–fragmentation chain transfer polymerization (detraft) of methacrylates, acrylates and styrene”. CEMUC, Department of Chemical Engineering, University of Coimbra, 3030-790 Coimbra, Portugal</i>	19
<b>Coffee Break</b>	<b>17.00:17.30</b>	
<b>17.00:18.00</b>	Poster session I	
<b>4 JULY</b>		
<b>Oral Presentations</b>		
<b>Co-chairmen:</b>	Prof. M. Bratychak, Prof. L. Nadareishvili	
<b>9.00:9.15</b>	<i>K. Piechocki – “Swelling properties of poegmas based hydrogels generated by electron beam irradiation”. Department of Molecular Physics, Lodz University of Technology, Zeromskiego 116, 90-924 Lodz, Poland</i>	20
<b>9.15:9.30</b>	<i>M. Burek – “Thermoresponsive trehalose glycohydrogels as smart biomaterials”. Department of Organic Chemistry, Bioorganic Chemistry and Biotechnology, Faculty of Chemistry, Silesian University of Technology, 4 B. Krzywoustego Street, 44 100 Gliwice, Poland</i>	21
<b>9.30:9.45</b>	<i>L. Akhalbedashvili – “preparation of a zeolite material with a combined micro-mesoporous structure involving an organic template”. Al. Tvalchrelidze Institute of Mineral Resources, Tbilisi State University, Mindeli str., 11, 0186, Tbilisi, Georgia</i>	22
<b>9.45:10.00</b>	<i>Bahram Fathi-Achachlouei - “Physical and mechanical properties of CMC-MMT-ZnO nanobiocomposite films”. Department of Food Science and Technology, Faculty of Agriculture and Natural resources, University of Mohaghegh Ardabili, Ardabil, Iran</i>	23
<b>10.00:10.15</b>	<i>K. Chubinidze – “Development of <i>in vitro</i> prostate cancer biomarker on the basis of gelatin matrix incorporated gold nanoparticle functionalized with fluorescence dye and prostate specific membrane antigen”. Tbilisi State University, 1 Ilia Chavchavadze Ave., Tbilisi 0179, Georgia</i>	24
<b>10.15:10.30</b>	<i>A.A. Hovhannisyan – “Physicochemical stages of formation and stabilization of latex particles in statistic monomor-water system”. Scientific-Technological Center of Organic and Pharmaceutic Chemistry NAS Republic of Armenia, 0014, Erevan, Azatutyan Av. 26</i>	25
<b>10.30:10.45</b>	<i>T. Sterzynski – “Ecologically friendly polymer composites with enhanced properties”. Department of Polymer Processing, Poznan University of Technology, Pietrowo 3, 60-965 Poznan, Poland</i>	26
<b>10.45:11.00</b>	<i>Nadya Oudai – “Theoretical investigation on structural and physicochemical properties of some ionic liquids”.</i>	27

	<i>Laboratoire de Génie des procédés chimiques, Université Setif-1, Algeria</i>	
<b>Coffee Break</b>	<b>11.00:11.20</b>	
<b>Co-chairmen:</b>	Prof. V.M. Farzaliyev, Prof. E. Zeinalov	
<b>11.20:11.35</b>	<i>M. Rukhadze – “Study of structural changes of water confined in the mixed reverse micelles”. Faculty of Exact and Natural Sciences, Ivane Javakhishvili Tbilisi State University, 3, I.Chavchavadze ave, Tbilisi, 0179, Georgia</i>	28
<b>11.35:11.50</b>	<i>Shahriar Ghammamy – “New inorganic-based nano materials: synthesis, characterization, biological and nanocarriers activities with controlled release rate”. Department of Chemistry, Faculty of Science, Imam Khomeini International University</i>	29
<b>11.50:12.05</b>	<i>Aminoddin Haji – “Plasma treatment for environmentally friendly surface modification of polymers: effect on wool fibers”. Department of Textile Engineering, Birjand Branch, Islamic Azad University, Birjand, Iran</i>	30
<b>12.05:12.20</b>	<i>S. Kobauri – “Engineering positively charged biodegradable nanoparticles for potential applications in nanotherapy”. Institute of Chemistry and Molecular Engineering, Agricultural University of Georgia, Kakha Bendukidze University Campus, # 240 David Aghmashenebeli Alley, Tbilisi 0159, Georgia</i>	31
<b>12.20:12.35</b>	<i>Reaza Dervish Cheshmeh Soltani – “Advanced nanostructured catalyst for enhanced ultrasonic decomposition of an antibiotic drug in aquatic environments”. Department of Environmental Health, School of Health, Arak University of Medical Sciences, Arak</i>	32
<b>12.35:12.50</b>	<i>T.K. Jumadilov – “Activated structures of interpenetrating networks – new type of effective sorbents for different nature ions”. JSC “Institute of chemical sciences after A.B. Bekturov”, Almaty, Kazakhstan</i>	33
<b>12.50:13.05</b>	<i>J. Tomaszewska – “The specific transition temperature of poly(vinyl chloride) modified by nanoadditives”. Faculty of Technology and Chemical Engineering, University of Technology and Life Science, Seminaryjna 3, 85326 Bydgoszcz, Poland</i>	34
<b>Lunch break</b>	<b>13.05:14.05</b>	
<b>Co-chairmen:</b>	Prof. N. Durgaryan, Prof. G. Papava	
<b>14.05:14.20</b>	<i>K.G. Guliyev – “Photochemical conversion of polycyclopropanes”. Institute of Polymer Materials of Azerbaijan National Academy of Sciences, S.Vurgun Str.,124, Az5004, Sumgait, Azerbaijan</i>	35
<b>14.20:14.35</b>	<i>G.G. Meskhi – “Medium energy ion scattering (meis) for nanolayers characterization”. Faculty of Engineering, Agrarian and Natural Sciences, Samtstkhe-Javakheti State University,106 Rustaveli str., 0800, Akhaltsikhe, Georgia.</i>	36
<b>14.35:14.50</b>	<i>E.B. Zeynalov – “Global testing of carbon nanostructures activity in the oxidation environments. Fullerenes”. <sup>1</sup>Institute of Catalysis &amp; Inorganic Chemistry, Azerbaijan National Academy of Sciences. 113, H. Javid Ave., AZ 1143 Baku, Azerbaijan</i>	37
<b>14.50:15.05</b>	<i>T. Khristova – “Scifinder - the choice for chemistry research”. Chemical Abstracts Service</i>	38
<b>15.05:15.20</b>	<i>O. Mukbaniani – “Modification reactions of polymethylhydro(vinyl)-siloxanes”.</i>	39

	<i>Iv. Javakhishvili Tbilisi State University, Faculty of Exact and Natural Sciences, Department of Chemistry, Ilia Chavchavadze Ave., 1, Tbilisi 0179, Georgia</i> <i>Institute of Macromolecular Chemistry and Polymeric Materials, Iv. Javakhishvili Tbilisi State University, Faculty of Exact and Natural Sciences, Ilia Chavchavadze Ave., 13, Tbilisi 0179, Georgia</i>	
<b>15.20:15.35</b>	S. Zavareh – “A copper(ii)-bonded biopolymer nanocomposite: a promising environmental adsorbent and antibacterial agent for water disinfection <i>Department of Applied Chemistry, University of Maragheh, Maragheh, Iran</i>	40
<b>15.35:15.50</b>	F. Alsubaie - “Microwave irradiation assisted synthesis of smart polymers”. <i>National Center for Petrochemicals, Materials Science Institute, King Abdulaziz City for Science and Technology P.O. Box 6086 Riyadh 11442, Kingdom of Saudi Arabia</i>	41
<b>Coffee Break</b>	<b>16.00:16.30</b>	
<b>16.30:18.00</b>	<b>Poster session II</b>	
<b>18.00</b>	Closing ceremony (young scientist’s awards, raffle prizes).	
<b>5 JULY</b>		
<b>9.00</b>	Excursion	
<b>18.00</b>	Gala Dinner in restaurant	

### POSTER SESSIONS I

Poster #	Poster title and authors	Page
1	PHYSICO-CHEMICAL INVESTIGATIONS OF NATURAL BITUMENS <b>M.N. Abdikarimov<sup>1</sup>, R.H. Turgumbayeva<sup>2</sup>, B.B. Beksultan<sup>2</sup>, Sh. K. Nauryzbayeva<sup>1</sup>, A.K. Tolendina<sup>1</sup>, Z.K. Uskembayeva<sup>1</sup></b> <i><sup>1</sup>Kazakh national technical research university named after K.I. Satpayev (KazNITU), 050022, Almaty, Satpayev str., 22, Almaty, Republik Kazakhstan</i> <i><sup>2</sup>Kazakh national pedagogical university named after Abai (KazNPU), 050010, Almaty, Dostyk str. 13, Almaty, Republik Kazakhstan</i>	42
2	PREPARATION OF POLYCONJUGATED COOLIGOMERS OF 2-METHYL-1,4-BENZOQUINONE WITH PHENYL ACETYLENE <b>G.S. Akhmedova<sup>1</sup>, M.K. Mirmekhtieva<sup>1</sup>, Ch.O. Ismailova<sup>2</sup>, B.A. Mamedov<sup>1</sup></b> <i><sup>1</sup>Institute of Polymer Materials of Azerbaijan National Academy of Sciences, S.Vurgun Str.,124, Az5004, Sumgait, Azerbaijan</i> <i><sup>2</sup>Azerbaijan Medical University, , S.Vurgun Str.167, Az1022, Baku, Azerbaijan</i>	43
3	BIOLOGICAL ACTIVITY OF POLY(METHYL METHACRYLATE) FILLED WITH FULLERENE <b>O. V. Alekseeva<sup>1</sup>, O. G. Sitnikova<sup>2</sup>, A. V. Noskov<sup>1</sup></b> <i><sup>1</sup>G.A. Krestov Institute of Solution Chemistry, Russian Academy of Sciences, Akademicheskaya str., 1; Ivanovo, 153045, Russia</i> <i><sup>2</sup> V.N. Gorodkov Research Institute of Maternity and Childhood, Pobedy str., 20, Ivanovo, 153045, Russia</i>	44
4	COPPER COATINGS WITH SUPERFINE PHASE OF CARBON	45

	<p><b>T.A. Marsagishvili, G.D. Tatishvili, N.Sh. Ananiashvili, M.P. Gachechiladze, J.A. Metreveli, E.T. Tskhakaia, M.N. Matchavariani</b>  <i>Ivane Javakhishvili Tbilisi State University, R. Agladze Institute of Inorganic Chemistry and Electrochemistry. Mindeli st. 11, 0186, Tbilisi, Georgia</i></p>	
5	<p>MUSHROOM DRY IN COMBINED SOLAR DRYER WITH POLYCARBONATE COVER  <b>K.T. Archvadze, T.I. Megrelidze, I.R. Chachava</b>  <i>Georgian Technical University, Food Industry Department. 77 Kostava, 0175, Tbilisi, Georgia</i></p>	46
6	<p>POLY 2-ACRYLAMIDO-2-METHYL-1-PROPANSULFONIC ACID (PAMPS) IMMOBLIZED ON GRAPHENE OXIDE APPLIED AS SUPERIOR CATALYST  <b>Shima Asadi<sup>1</sup>, Roya Sedghi<sup>2</sup>, Majid M. Heravi</b>  <i>Department of Chemistry, Alzahra University, Tehran (Iran), <sup>2</sup>Faculty of Chemistry and Petroleum Sciences, Department of Polymer &amp; Materials Chemistry, Shahid Beheshti University, G.C., 1983969411, Tehran (Iran)</i></p>	47
7	<p>EPOXY-OLIGOMERIC MIXTURES WITH CARBOXY DERIVATIVE OF EPOXY RESIN  <b>O. T. Astakhova, O. V. Shyshchak, M. M. Bratychak, O. I. Iatsyshyn</b>  <i>Lviv Polytechnic National University, S.Bandery St., 12, 79013 Lviv, Ukraine</i></p>	48
8	<p>CONDENSED PHOSPHATES: SOME INNOVATIVE RESULTS-ORIENTED SCIENTIFIC RESEARCHES WHICH LEAD TO THE DEVELOPMENT IN THE FIELD OF INORGANIC POLYMER'S SCIENCE  <b>M.A. Avaliani</b>  <i>Iv. Javakhishvili Tbilisi State University R. Agladze Institute of Inorganic Chemistry and Electrochemistry ; 0186 Mindeli str.11 Tbilisi, Georgia. \</i></p>	49
9	<p>CONDENSED PHOSPHATES AS INORGANIC POLYMERS AND VARIOUS DOMAINS OF THEIR APPLICATIONS  <b>M. Avaliani<sup>1</sup>, N. Barnovi<sup>1</sup>, N. Esakia<sup>2</sup>, M. Gvelesiani<sup>1</sup>, Sh. Makhatadze<sup>1</sup></b>  <sup>1</sup> <i>Iv. Javakhishvili Tbilisi State University, R. Agladze Institute of Inorganic Chemistry and Electrochemistry, 0186 Mindeli str., 11, Tbilisi, Georgia.</i>  <sup>2</sup> <i>Iv. Javakhishvili Tbilisi State University, Faculty of Exact and Natural Sciences;</i>  <i>Department of Chemistry, 0179 Chavchavadze ave. 3, Tbilisi, Georgia</i></p>	50
10	<p>PREPARATION OF CONJUGATION OF PACLITAXOL TO FULLY GLUTATHIONE DEGRADABLE WATERBORNE POLYURETHANE NANOCARRIERS  <b>Nilofar Babanejad, Mohammad Reza Nabid</b>  <i>Department of Polymer and Material Chemistry, Faculty of Chemistry and Petroleum Sciences, Shahid Beheshti University</i></p>	51
11	<p>MODIFICATION OF PHYSICO-CHEMICAL CHARACTERISTICS OF CMC FILM BY INCORPORATION OF MONTMORILLONITE AND TiO<sub>2</sub> NANOPARTICLES  <b>Bahram Fathi-Achachlouei, Younes Zahedi</b>  <i>Department of Food Science and Technology, Faculty of Agriculture and Natural resources, University of Mohaghegh Ardabili, Ardabil, Iran.</i></p>	52

12	<p>CREATION AND RESEARCH OF CELLULOSE ACETATE MEMBRANE</p> <p><b>G. Bibileishvili, N. Gogesashvili</b>  <i>Engineering Institute of Membrane Technology, Georgian Technical University, Godziashvili second-side street 19., Tbilisi 0159, Georgia</i></p>	53
13	<p>POLYANILINE CRYOGELS SUPPORTED WITH POLY(VINYL ALCOHOL)</p> <p><b>P. Bober, J. Stejskal</b>  <i>Institute of Macromolecular Chemistry Academy of Sciences of the Czech Republic, 162 06 Prague 6, Czech Republic</i></p>	54
14	<p>TREHALOSE DERIVATIVES AS KEY BUILDING BLOCKS OF HYDROGEL NETWORKS</p> <p><b>M. Burek<sup>1</sup>, K. Kubic<sup>1</sup>, I. Nabiałczyk<sup>1</sup>, S. Waskiewicz<sup>2</sup>, I. Wandzik<sup>1</sup></b>  <sup>1</sup> <i>Department of Organic Chemistry, Bioorganic Chemistry and Biotechnology, Faculty of Chemistry, Silesian University of Technology, 4 B. Krzywoustego Street, 44 100 Gliwice, Poland;</i>  <sup>2</sup> <i>Department of Physical Chemistry and Technology of Polymers, Faculty of Chemistry, Silesian University of Technology, 9 M. Strzody Street, 44 100 Gliwice, Poland</i></p>	55
15	<p>NOVEL ALIPHATIC POLYESTER BASED MACROMONOMERS</p> <p><b>E. Çatiker<sup>1</sup>, Mehmet Atakay<sup>2</sup>, Bekir Salih<sup>2</sup>, Olgun Güven<sup>2</sup></b>  <sup>1</sup> <i>Faculty of Art&amp;Science, Department of Chemistry, Ordu University, 52200, Ordu, Turkey</i>  <sup>2</sup> <i>Faculty of Science, Department of Chemistry, Hacettepe University, 06800 Ankara, Turkey</i></p>	56
16	<p>ANTIBACTERIAL ACTIVITY OF HYPERBRANCHED POLY(ACRYLIC ACID-CO-3-HYDROXYPROPIONATE) HYDROGELS</p> <p><b>E. Çatiker<sup>1</sup>, T. Filik<sup>1</sup>, E. Çil<sup>2</sup></b>  <sup>1</sup> <i>Faculty of Art&amp;Science, Department of Chemistry, Ordu University, 52200, Ordu, Turkey</i>  <sup>2</sup> <i>Faculty of Education, Department of Math and Science, Ordu University, 52200, Ordu, Turkey</i></p>	57
17	<p>HYDROLITIC AND ENZYMATIC DEGRADATION OF RASEMIC POLY(<math>\alpha</math>-METHYL-<math>\beta</math>-PROPIOLACTON) (PMPL)</p> <p><b>E. Çatiker, A. Uzunlar</b>  <i>Faculty of Art&amp;Science, Department of Chemistry, Ordu University, 52200, Ordu, Turkey</i></p>	58
18	<p>OBTAINING OF NANOSTRUCTURAL CERAMIC POWDER COMPOSITES USING ORGANIC PRECURSORS OF B<sub>4</sub>C-TiB<sub>2</sub></p> <p><b>A. Mikeladze<sup>1</sup>, O. Tsagareishvili<sup>1</sup>, L. Chkhartishvili<sup>1</sup>, M. Darchiashvili<sup>1</sup>, K. Saradjishvili<sup>2</sup>, R. Chedia<sup>2</sup></b>  <sup>1</sup> <i>LEPL Ferdinand Tavadze Institute of Metallurgy and Materials Science, 10, Mindeli St., 0186, Tbilisi, Georgia</i>  <sup>2</sup> <i>Iv. Javakhishvili Tbilisi State University, PetreMelikishvili Institute of Physical and Organic Chemistry, 31 Politkovskaya St., 0186, Tbilisi, Georgia</i></p>	59

19	<p>NANOSTRUCTURAL IRON AND MAGNETITE POWDERS OBTAINED FROM IMPREGNATED IRON(0) PENTACARBONYL  <b>Q. Sarajishvili<sup>1</sup>, N. Jalabadze,<sup>2</sup> T. Korkia<sup>1</sup>, V. Gabunia<sup>1</sup>, R. Chedia<sup>1</sup></b>  <sup>1</sup><i>Iv. Javakhishvili Tbilisi State University, Petre Melikishvili Institute of Physical and Organic Chemistry, 31 Politkovskaya St., 0186, Tbilisi, Georgia</i>  <sup>2</sup><i>Georgian Technical University, Republic Center for Structure Researches, 77 Kostava St., 0186, Tbilisi, Georgia</i></p>	60
20	<p>UNSATURATED BOND-CONTAINING HETEROCHAIN POLYMERS FOR BIOMEDICAL USE  <b>E.T. Chkhaidze<sup>1</sup>, D.P. Kharadze<sup>2</sup></b>  <sup>1</sup><i>Department of Chemical and Biological, Georgian Technical University, 69 M. Kostava Ave., Tbilisi, 0175 Tbilisi, Georgia, E-mail: <a href="mailto:ekachkhaidze@yahoo.com">ekachkhaidze@yahoo.com</a></i>  <sup>2</sup><i>Ivane Beritashvili Center of Experimental Biomedicine, 14, Gotua st. Tbilisi 0160, Georgia</i></p>	61
21	<p>ELECTRODEPOSITION OF Zn-Mn ALLOYS FROM SULFATE SOLUTION CONTAINING COMPLEXING ADDITIVES  <b>D. G. Gogoli, L. D. Beriashvili</b>  <i>Department of Electrochemistry and Electrometallurgy, R. Agladze Institute of Inorganic Chemistry and Electrochemistry of Ivane Javakhishvili Tbilisi State University, 11 Mindeli st., 0186, Tbilisi, Georgia</i></p>	62
22	<p>COMB-TYPE METHYLSILOXANE POLYMERS WITH FLUORINE CONTAINING SIDE GROUPS  <b>M. Barnabishvili<sup>1</sup>, E. Markarashvili<sup>1,2</sup>, T. Tatrishvili<sup>1,2</sup>, M. E. Plonska-Brzezinska<sup>3</sup>, N. Lekishvili<sup>1</sup>, J. Aneli<sup>1,2</sup>, O. Mukbaniani<sup>1,2</sup></b>  <sup>1</sup><i>Iv. Javakhishvili Tbilisi State University, I. Chavchavadze Ave., 1, Tbilisi 0179, Georgia</i>  <sup>2</sup><i>Institute of Macromolecular Chemistry and Polymeric Materials, Iv. Javakhishvili Tbilisi State University, I. Chavchavadze Ave., 13, Tbilisi 0179, Georgia</i>  <sup>3</sup><i>Faculty of Biology and Chemistry, University of Bialystok, Ciolkowskiego 1K, 15-245 Bialystok, Poland</i></p>	63
23	<p>REWRITABLE IMAGE RECORDING ON THE SPIROPYRAN DOPED NEMATIC AND CHOLESTERIC LIQUID CRYSTAL POLYMER FILMS  <b>G. Petriashvili, L. Devadze, Ts. Zurabishvili, N. Sepashvili</b>  <i>Institute of Cybernetics of the Georgian Technical University, S. Euli 5, 0179, Tbilisi, Georgia</i></p>	64
24	<p>THE WOOD COMPOSITIONS, HAVING DIFFERENT TECHNICAL FEATURES AND THEIR INFLUENCE ON THE BIOLOGICAL SYSTEMS  <b>M. Goliadze<sup>1</sup>, M. Berulava<sup>2</sup>, M. Razmazashvili<sup>3</sup>, D. Dzidziguri<sup>1</sup></b>  <sup>1</sup><i>Iv. Javakhishvili Tbilisi State University, Department of Mofology, Tbilisi 0179, Georgi</i>  <sup>2</sup><i>Sukhumi State University, Polytkovskaia str. 9, 0186, Tbilisi, Georgia</i>  <sup>3</sup><i>Iv. Javakhishvili Tbilisi State University, Department of Macromolecular Chemistry, I. Chavchavadze Ave., 1, Tbilisi 0179, Georgia</i></p>	65
24	<p>AN ANALYTICAL METHOD FOR DETERMINATION OF ISOSORBIDE DINITRATE BY USING GRAPHENE QUANTUM DOTS</p>	66



	<b>H. Eskandari<sup>1</sup>, S. Baghi Sefidan<sup>1</sup></b> <i><sup>1</sup>Department of Chemistry, Faculty of Basic Sciences, University of Mohaghegh Ardabili, 56199-11367, Ardabil, Iran</i>	
25	NITRATE AND AMMONIUM DETERMINATION: GRAPHENE QUANTUM DOTS FOR QUALITY CONTROL OF CHEESE, MINERAL WATER AND FERTILIZERS <b>H. Eskandari<sup>1</sup>, S. Baghi Sefidan<sup>1</sup></b> <i><sup>1</sup>Department of Chemistry, Faculty of Basic Sciences, University of Mohaghegh Ardabili, 56199-11367, Ardabil, Iran</i>	67
26	POLYMER COMPOSITION MATERIALS ON THE BASIS OF POLYETHYLENE AND MODIFYING ADDITIONS <b>G.Sh. Gasimova, N.T. Kakhrmanov, D.R. Nurullayeva, F.A. Agayeva</b> <i>Institute of Polymer Materials of Azerbaijan National Academy of Sciences, S. Vurgun Str.,124, Az5004, Sumgait, Azerbaija</i>	68
27	MAGNETIC NANOPARTICLE IMMOBILIZED N-PROPYLSULFAMIC ACID: THE EFFICIENT, GREEN AND REUSABLE NANOCATALYST FOR THE SYNTHESIS OF COUMARIN DERIVATIVES UNDER SOLVENT FREE CONDITIONS <b>Hassan Ghasemnejad-Bosra</b> <i><sup>1</sup>Department of Chemistry, Babol Branch, Islamic Azad University, Babol, Iran</i>	69
28	SYNTHESIS AND STUDY OF MIXED-LIGAND HIGH-MOLECULAR CHELATES <b>I.A. Beshkenadze, M.A. Gogaladze, N.A. Klarjeishvili, O.G. Lomtadze, Z.F. Molodinashvili, N.R. Khurtsilava</b> <i>Ivane Javakhishvili Tbilisi State University, Petre Melikishvili Institute of Physical and Organic Chemistry,31, A. Politkovskaia str., 0186, Tbilisi, Georgia</i>	70
29	CLARIFICATION AND STERILIZATION OF PHARMACOLOGICAL SOLUTIONS WITH USE OF FLUOROPLASTIC MEMBRANE <b>R. Gotsiridze, N. Mkheidze, S. Mkheidze, N. Megrelidze</b> <i>Agrarian and Membrane Technologies Scientific Research Institute under Shota Rustaveli State University, Grishashvili street 5, 60100, Batumi, Georgia.</i>	71
30	MECHANICAL PROPERTIES OF 3D BIOPOLYMER MATERIALS WITH ADDITION OF MAGNETIC NANOPARTICLES <b>S. Grabska, A. Sionkowska</b> <i><sup>1</sup>Nicolaus Copernicus University in Toruń, Faculty of Chemistry, Department of Chemistry of Biomaterials and Cosmetics, Gagarin 7, 87-100 Toruń, Poland</i>	72
31	OBTAINING LINEAR BIO-DEGRADABLE POLYMERS OF ON THE BAZE OF AMIDO-ALDEHYDE CO-POLYMERS. <b>M. Gurgenishvili, I. Chitrekashvili, G. Papava, E.Gugava R. Liparteliani, N. Khotenashvili, K. Papava, Z. Chubinishvili</b> <i>P. Melikishvili Institute of Physical and Organic Chemistry of Iv. Javakhishvili Tbilisi State University, 5 A.Politikovskaia str., 0186, Tbilisi, Georgia</i>	73
32	SYNTHESIS OF CARD TYPE POLYARILATES <b>G.Sh. Papava, M. B. Gurgenishvili, N.S. Dokhturishvili, N.S. Gelashvili, I.A. Chitrekashvili, Z.Sh.Tabukashvili, Sh.R. Papava, L.G. Shamanauri</b>	74

	<i>P. Melikishvili Institute of Physical and Organic Chemistry of Iv. Javakhishvili Tbilisi State University, 5 A. Politkovskaia str., 0186, Tbilisi, Georgia,</i>	
33	<p>THE TRIBOLOGICAL PROPERTIES OF POLYTETRAFLUORETHYLENE MODIFIED WITH Fe-DOPED CARBON NANOPARTICLES</p> <p><b>D. Gventsadze<sup>1</sup>, E. Kutelia<sup>2</sup>, O. Tsurtsunia<sup>2</sup>, L. Gventsadze<sup>2</sup>, L. Rukhadze<sup>2</sup>, N. Jalabadze<sup>2</sup></b></p> <p><sup>1</sup><i>R. Dvali Institute of Machine Mechanics, 10 Mindeli St. Tbilisi 0186, Georgia,</i>  <sup>2</sup><i>Republic Center for Structure Research of Georgian Technical University, 77 M. Kostava St. Tbilisi 0175, Georgia</i></p>	75
34	<p>OLIGOMERS ON THE BASIS OF DGEBA WITH EPOXY AND HYDROXY GROUPS</p> <p><b>O. P. Ivashkiv, M. M. Bratychak, K. O. Hrynyshyn, O. V. Shyshchak</b></p> <p><i>Lviv Polytechnic National University, S.Bandery St., 12, 79013 Lviv, Ukraine</i></p>	76
35	<p>EPOXY RESINS MODIFIED BY DIOLS</p> <p><b>O. P. Ivashkiv, M. M. Bratychak, O. T. Astakhova, O. V. Shyshchak</b></p> <p><i>Lviv Polytechnic National University, S.Bandery St., 12, 79013 Lviv, Ukraine</i></p>	77
36	<p>SOLID POLYMER ELECTROLYTES ON THE BASIS OF SILOXANES</p> <p><b>N. Jalagonia<sup>1,2</sup>, T. Tatrishvili<sup>1,2</sup>, E. Markarashvili<sup>1,2</sup>, J. Aneli<sup>2</sup>, O. Mukbaniani<sup>1,2</sup></b></p> <p><sup>1</sup><i>Institute of Macromolecular Chemistry and Polymeric Materials, Iv. Javakhishvili Tbilisi State University, I. Chavchavadze Ave., 13, Tbilisi 0179, Georgia</i>  <sup>2</sup><i>Iv. Javakhishvili Tbilisi State University, Tbilisi 0179, Georgia, I. Chavchavadze Ave., 1, Tbilisi 0179, Georgia</i></p>	78
37	<p>FABRICATION OF SCAFFOLDS FROM UNCATALYZED POLYURETHANES BY SC/PL</p> <p><b>Kucińska-Lipka, I. Przybytek, Gubańska, A. H. Janik, J.</b></p> <p><i>Gdańsk University of Technology, Chemical Faculty, Polymer Technological Department.</i>  <i>11/12 Narutowicza Street, 80-232 Gdansk. PL</i></p>	79
38	<p>MATERIAL MODEL OF POLYESTER COMPOSITES WITH GLASS-REINFORCED POLYESTER RECYCLATE AND NANOFILLER</p> <p><b>M. Jastrzębska, M. Rutkowska</b></p> <p><i>Department of Industrial Commodity Science &amp; Chemistry, Faculty of Entrepreneurship and Quality Science, Gdynia Maritime University, 83 Morska Str., 81-225 Gdynia, Poland</i></p>	80
39	<p>PROMISING CATHODE MATERIALS FOR LITHIUM ION BATTERIES</p> <p><b>E. Kachibaia, R. Imnadze, T. Paikidze, D. Dzanashvili, T. Machaladze, E. Tskhakaia</b></p> <p><i>R. Agladze Institute of Inorganic Chemistry and Electrochemistry of Ivane Javakhishvili Tbilisi State University, Mindeli st.11, 0186, Tbilisi, Georgia</i></p>	81
40	<p>THE CHARACTERIZATION OF CHITOSAN/GELATIN SCAFFOLDS CROSS-LINKED BY STRACH DIALDEHYDE ADDITION</p> <p><b>B. Kaczmarek<sup>1</sup>, A. Sionkowska<sup>1</sup>, E. Markiewicz<sup>1</sup>, F. Monteiro<sup>2</sup>, A. Carvalho<sup>2</sup>, K. Łukowicz<sup>3</sup>, A. M. Osyczka<sup>3</sup></b></p> <p><sup>1</sup><i>Department of Chemistry of Biomaterials and Cosmetics, Faculty of Chemistry,</i></p>	82

	<p><i>Nicolaus Copernicus University, Toruń, Poland</i></p> <p><sup>2</sup> <i>I3S-Institute for Research and Innovation in Health Sciences, University of Porto, Portugal</i></p> <p><sup>3</sup> <i>Department of Biology and Cell Imaging, Faculty of Biology and Earth Sciences, Jagiellonian University in Kraków, Poland</i></p>	
41	<p>STRUCTURE AND PROPERTIES OF POLYMER COMPOSITES BASED ON RANDOM POLYPROPYLENE AND MINERAL FILLERS</p> <p><b><u>N.T. Kahramanov</u><sup>1</sup>, N.B. Arzumanova<sup>1</sup>, I.V. Bayramova<sup>1</sup>, J.N. Gahramanly<sup>2</sup></b></p> <p><sup>1</sup><i>Institute of Polymer Materials of Azerbaijan National Academy Sciences</i></p> <p><sup>2</sup><i>Azerbaijan State University of Oil and Industry</i></p>	83
42	<p>HETEROCHIAIN POLYMERS <i>via</i> TRICOMPONENT CLICK STEP-GROWTH POLYMERIZATION: OPTIMIZATION OF THE REACTION</p> <p><b><u>Teng. Kantaria</u>, Tem. Kantaria, G. Otinashvili, N. Kupatadze, N. Zavrashvili, D. Tugushi, R. Katsarava</b></p> <p><i>Institute of Chemistry and Molecular Engineering, Agricultural University of Georgia, #240 David Aghmashenebeli Alley, 0159 Tbilisi, Georgia</i></p>	84
43	<p>HYDRO INSULATION MATERIALS WITH ORGANIC AND INORGANIC ADDITIVES AND RESIDUES</p> <p><b><u>G. Khitiri</u><sup>1</sup>, I. Chikvaidze<sup>2</sup>, R. Kokilashvili<sup>3</sup></b></p> <p><sup>1</sup><i>P. Melikishvili Institute of physical &amp; Organic Chemistry, I.Javakhishvili Tbilisi State University Tbilisi, Georgia</i></p> <p><sup>2</sup><i>I.Javakhishvili Tbilisi state University Tbilisi, Georgia, I. Chavchavadze Ave., 1, Tbilisi 0179, Georgia</i></p> <p><sup>3</sup><i>Georgian Technical University Tbilisi, Georgia</i></p>	85

## POSTER SESSIONS II

Poster #	Poster title and authors	Page
44	<p>ZEOLITES AS MICRO-PORE SYSTEM AND THEIR USAGE PROSPECTS</p> <p><b><u>N. kiknadze</u><sup>1</sup>, N. Megrelidze<sup>2</sup></b></p> <p><sup>1</sup><i>Chemistry Department, Batumi Shota Rustaveli State University</i></p> <p><sup>2</sup><i>BSU Agrarian and Membrane Technologies Institute Ninoshvili/Rustaveli str. 35/32, 6010 Batumi, Georgia</i></p>	86
45	<p>GLYCEROL ETHOXYLATE BASED CROSSLINKED POLYMERS AND THEIR USE AS OIL SORBENTS</p> <p><b><u>S. Kizil</u><sup>1</sup>, H.B. Sonmez<sup>1</sup></b></p> <p><sup>1</sup><i>Department of Chemistry, Gebze Technical University, Gebze/KOCAELI TURKEY</i></p>	87
46	<p>PREPARATION OF NEW MATERIALS BASED ON THE INCORPORATION OF MICROPARTICLES INTO COLLAGEN MATRICES</p> <p><b><u>J. Kozłowska</u>, A. Kaczmarkiewicz, N. Stachowiak, A. Sionkowska</b></p> <p><i>Faculty of Chemistry, Department of Chemistry of Biomaterials and Cosmetics, Nicolaus Copernicus University in Torun, ul. Gagarina 7, 87-100 Torun, Poland</i></p>	88
47	<p>HETEROCYCLIC AZO-CONTAINING MATERIAL SYSTEMS</p>	89

	<p><b>O. Krupka<sup>1</sup>, V. Smokal<sup>1</sup>, B. Derkowska-Zielinska<sup>2</sup>, A. Kysil<sup>1</sup>, A. Biitseva<sup>1</sup></b>  <sup>1</sup>Taras Shevchenko National University of Kyiv – 60 Volodymyrska – 01033 Kyiv Ukraine  <sup>2</sup>Institute of Physics, Faculty of Physics, Astronomy and Informatics, Nicolaus Copernicus University, Grudziadzka 5, 87-100 Torun, Poland</p>	
48	<p>PITCH-THERMOPLASTIC AS A COMPATIBILIZER FOR POLYMER-POLYMERIC COMPOSITIONS  <b>I. Krutko, V. Kaulin, K. Yavir, I. Danylo<sup>1</sup></b>  <sup>1</sup>Department of Chemical Technologies, Donetsk National Technical University, Shybankova Sq.,2, 85300, Pokrovsk, Donetsk region, Ukraine</p>	90
49	<p>PREPARATION OF COPPER-CONTAINING NANOPARTICLES IN POLYETHYLENE MATRIX WITHOUT USE OF SOLVENTS  <b>N.I. Kurbanova, A.M. Kuliyeu, N.A. Alimirzoeva, E.Z. Alinagiev, N.Ya. Ishenko, E.G. Iskenderova</b>  Institute of Polymer Materials of Azerbaijan National Academy of Sciences, S. Vurgun Str., 124, Az5004, Sumgait, Azerbaijan</p>	91
50	<p>STAR-LIKE POLY(N-ISOPROPYLACRYLAMIDE): SYNTHESIS, CHARACTERIZATION AND PROSPECT FOR BIOMEDICAL APPLICATION  <b>N.V. Kutsevol<sup>1</sup>, V.A. Chumachenko<sup>1</sup>, Yu.I. Harahuts<sup>1</sup>, M.Rawiso<sup>2</sup>, A.P. Naumenko<sup>1</sup>, A.I.Marinin<sup>3</sup></b>  <sup>1</sup> Taras Shevchenko National University of Kyiv, Volodymyrska, 60, Kyiv 01601, Ukraine  <sup>2</sup>Charles Sadron (CNRS-UdS), Strasbourg 67034, France  <sup>3</sup>National University of Food Technology, Volodymyrska str. 68 , 01601 Kyiv, Ukraine</p>	92
51	<p>ANTIBIOCORROSIVE COVERS BASED ON MODIFIED INDUSTRIAL ORGANIC POLYMERS AND VARIOUS BIOACTIVE COMPOUNDS  <b>Kh. Barbakadze<sup>1</sup>, N. Lekishvili<sup>1</sup>, M. Tatarishvili<sup>1</sup>, W. Brostow<sup>2</sup></b>  <sup>1</sup>Inorganic-Organic Hybrid Compounds and Non traditional materials, Faculty of exact and natural sciences of Javakhishvili Tbilisi State University, 3, I. Chavchavadze Ave. 0179, Tbilisi, Georgia  <sup>2</sup>Laboratory of Advanced Polymers &amp; Optimized Materials (LAPOM), Department of Materials Science and Engineering and Department of Physics, University of North Texas 3940 North Elm Street, Denton TX 76207, USA</p>	93
52	<p>TECHNOLOGICAL PECULIARITIES OF THE OBTAINING THE EPOXY-AMINE COMPOSITES WITH SUPPRESSED COMBUSTIBILITY  <b>V.P. Parhomenko, H. Lavrenyuk, B. Mykhalichko</b>  Department of burning processes and general chemistry, L'viv State University of Life Safety, L'viv, UA-79007 Ukraine</p>	94
53	<p>THE INFLUENCE OF THE CONCENTRATION OF MOLIBDATE IONS DURING THEIR ELECTROREDUCTION FROM THE TARTARIC ACID ELECTROLYTES  <b>V. A. Majidzade<sup>1</sup>, A. Sh. Aliyev<sup>1</sup>, S. F. Cafarova<sup>2</sup></b>  <sup>1</sup>Institute of Catalysis and Inorganic Chemistry named after acad. M.Nagiyev of</p>	95

	ANAS <sup>2</sup> <a href="#"><i>Institute of Physics</i></a> named after acad. H.M.Abdullayev of ANAS	
54	INVESTIGATION OF COMPLEX FORMATION PROCESS OF CADMIUM WITH MACROMOLECULAR SUBSTANCES, ISOLATED FROM NATURAL WATERS <b>T.G. Makharadze, G.D. Supatashvili, G.A. Makharadze</b> <i>Department of Chemistry, Ivane Javakhishvili Tbilisi State University, I. Chavchavadze Ave., I, 0179 Tbilisi, Georgia</i>	96
55	MAGNETIC POLYETHERIMIDE NANOCOMPOSITES FOR CO(II) REMOVAL <b>Y. Mansoori<sup>1</sup>, S. Fekri<sup>1</sup>, A. Khodayari<sup>1</sup></b> <sup>1</sup> <i>Department of Applied Chemistry, Faculty of Science, University of Mohaghegh Ardabili, Ardabil, Iran, 56199-11367</i>	97
56	POLYMER COMPOSITES ON THE BASIS OF EPOXY RESIN AND MODIFIED MINERALS <b>E. Markarashvili<sup>1</sup>, J. Aneli<sup>2</sup>, L. Shamanauri<sup>2</sup></b> <sup>1</sup> <i>I. Javakhishvili Tbilisi State University, 3, I. Chavchavadze Ave., 0179 Tbilisi, Republic of Georgia</i> <sup>2</sup> <i>R. Dvali Institute of Machine mechanics; 10, Mindeli St., 0186 Tbilisi, Republic of Georgia,</i>	98
57	THE SELF CONDENSATION REACTION OF N,N' -BIS(4'-AMINOPHENYL)-1,4-BENZOQUINONE DIIMINE AND INVESTIGATION OF STRUCTURE AND ELECTRIC PROPERTIES OF SYNTHESIZED AND DOPED WITH IODINE COMPOUND <b>N.Sh. Martikyan, N. A. Durgaryan, A. A. Durgaryan</b> <i>Yerevan State University Armenia, 375025, Yerevan, A. Manoogian 1,</i>	99
58	ORGANOSILICONE BLOCK-COPOLYMERS WITH RIGID AND FLEXIBLE FRAGMENTS <b>M. G. Matsaberidze, L. Kemkhadze, V. Tskhovrebashvili</b> <i>Institute of Macromolecular Chemistry and Polymeric Materials, Iv. Javakhishvili Tbilisi State University, I. Chavchavadze Ave., 13, 0179 Tbilisi, Georgia</i>	100
59	SOL-GEL PROCESSING OF PRECURSOR FOR SYNTHESIS OF MERCURY-BASED SUPERCONDUCTORS <b>I.R. Metskhvarishvili<sup>1</sup>, T.E. Lobzhanidze<sup>2</sup>, G.N. Dgebuadze<sup>1</sup>, B.G. Bendeliani<sup>1</sup>, M.R. Metskhvarishvili<sup>3</sup>, V.M. Gabunia<sup>1,4</sup>, L.T. Gugulashvili<sup>1</sup></b> <sup>1</sup> <i>Department of Cryogenic Technique and Technologies, Ilia Vekua Sukhumi Institute of Physics and Technology 0186 Tbilisi, Georgia</i> <sup>2</sup> <i>Department of Chemistry, Faculty of Exact and Natural Sciences, Ivane Javakhishvili Tbilisi State University, 0179 Tbilisi, Georgia</i> <sup>3</sup> <i>Department of Engineering Physics, Georgian Technical University, 0175 Tbilisi, Georgia</i> <sup>4</sup> <i>Petre Melikishvili Institute of Physical and Organic Chemistry of the Iv. Javakhishvili Tbilisi State University, Jikia str 5, 0186, Tbilisi, Georgia</i>	101
60	INVESTIGATION OF THE REACTION OF POLY(1.4-BENZOQUINONEDIIMINE-N,N'-DIYL-1,4-PHENYLENE) WITH	102

	<p>HYDRAZINE  <b>N.A. Miraqyan, N.A. Durgaryan, A.H. Durgaryan</b>  <i>Yerevan State University Armenia, 375025, Yerevan, A. Manoogian 1</i></p>	
61	<p>NEW TECHNICAL ACCESS FOR CREATION OF GRADUALLY ORIENTED POLYMERS  <b>L. I. Nadareishvili, R. Sh. Bakuradze, M. G. Areshidze, I. I. Pavlenishvili, L. K. Sharashidze</b>  <i>Georgian Technical University, Institute of Cybernetics, S, Euli, 5, 0186 Tbilisi, Georgia</i></p>	103
62	<p>CHITOSAN-COATED TiO<sub>2</sub> LAYERS FOR BIOMEDICAL APPLICATIONS  <b>A. Pawlik<sup>1</sup>, G. D. Sulka<sup>1</sup></b>  <sup>1</sup><i>Department of Physical Chemistry &amp; Electrochemistry, Faculty of Chemistry, Jagiellonian University in Krakow, Ingardena 3, 30060 Krakow, Poland</i></p>	104
63	<p>NEW FUNCTIONALIZED POLYESTERS FOR COATING MAGNETIC NANOPARTICLES  <b>A. Petran, Ioana Feher, A. Nan</b>  <i>Department of Physics of Nanostructured Systems, National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donat, 400293 Cluj-Napoca, Romania</i></p>	105
64	<p>THE POLYMERS CREEPING DEPENDENCE FROM THE ENVIRONMENT  <b>A.D. Porchkhidze, L.G. Khipiani</b>  <i>Akaki Tsereteli State University. 59 Tamar Mepe str. Kutaisi, 4600, Georgia</i></p>	106
65	<p>THE POLYMERS CREEPING INTO THEM DURING THE WATER DIFFUSION  <b>A.D. Porchkhidze, L.G. Khipiani</b>  <i>Akaki Tsereteli State University. 59 Tamar Mepe str. Kutaisi, 4600, Georgia</i></p>	107
66	<p>OBTAINING AND INVESTIGATION OF COMPOSITES BASED ON SOME ORGANIC/ INORGANIC BINDERS AND SAWDUST  <b>M. Razmazashvili<sup>1,2</sup>, I. Esartia, D. Otiashvili, E. Markkarashvili<sup>1,2</sup>, T. Tatrishvili<sup>1,2</sup>, J. Aneli<sup>2</sup>, O. Mukbaniani<sup>1,2</sup></b>  <sup>1</sup><i>Department of Macromolecular Chemistry, Iv. Javakhishvili' Tbilisi State University, I. Chavchavadze Blvd., 1, Tbilisi 0179, Georgia</i>  <sup>2</sup><i>Institute of Macromolecular Chemistry and Polymeric Materials, , Iv. Javakhishvili' Tbilisi State University, I. Chavchavadze Blvd., 13, Tbilisi 0179, Georgia</i></p>	108
67	<p>SILICA - POLYMER SORBENTS FOR HPLC  <b>S. S. Hayrapetyan, L.G. Mangasaryan, L.S. Banyan</b>  <i>Yerevan State University, Armenia, 375025, Yerevan, A. Manoogian 1</i></p>	109
68	<p>THE CHARACTER OF THE ANTIBACTERIAL SPECTRUM OF TRICYALIC, NON-SELECTIVE AND SELECTIVE, ANTIDEPRESSANTS OF DIFFERENT CHEMICAL COMPOSITION  <b>N. Rogava<sup>1,2</sup>, Z. Lomtadze<sup>1</sup>, N. Nachkebia<sup>2</sup></b>  <sup>1</sup><i>Department of Microbiology, Sokhumi State University, Ana Politkovskaia str. 61 0186 Tbilisi, Georgia</i>  <sup>2</sup><i>Lab Neurobiology of sleep-wakefulness cycle, I. Beritashvili Center of Experimental Biomedicine, Gotua str.14, 0160 Tbilisi, Georgia</i></p>	110

69	BRANCHED POLYURETHANES BASED ON SYNTHETIC POLYHYDROXYBUTYRATE <b>M. Rutkowska<sup>1</sup>, J. Brzeska<sup>1</sup>, M. Morawska<sup>1</sup>, W. Sikorska<sup>2</sup>, M. Kowalczyk<sup>2,3</sup></b> <sup>1</sup> <i>Department of Commodity Industrial Science and Chemistry, Gdynia Maritime University, 83Morska Street, 81-225 Gdynia, Poland</i> <sup>2</sup> <i>Centre of Polymer and Carbon Materials, Polish Academy of Sciences, 34 Sklodowska-Curie Street, 41-819 Zabrze, Poland</i> <sup>3</sup> <i>School of Biology, Chemistry and Forensic Science, Faculty of Science and Engineering, University of Wolverhampton, Wolverhampton WV1 1SB, UK</i>	111
70	REMOVAL OF A TEXTILE DYE FROM AQUATIC ENVIRONMENT USING CHITOSAN/Fe <sub>3</sub> O <sub>4</sub> /BONE CHAR NANOCOMPOSITE AS NATURAL POLYMERIC ADSORBENT <b>M. Safari<sup>1,2</sup>, R. Darvishi Cheshmeh Soltani<sup>3</sup>, A. Maleki<sup>1,2</sup>, R. Rezaee<sup>1,2</sup>, Seyed Enayat Hashemi<sup>4</sup></b> <sup>1</sup> <i>Environmental Health Research Center, Kurdistan University of Medical Sciences, Sanandaj, Iran</i> <sup>2</sup> <i>Department of Environmental Health Engineering, School of Health, Kurdistan University of Medical Sciences, Sanandaj, Iran</i> <sup>3</sup> <i>Department of Environmental Health Engineering, School of Health, Arak University of Medical Sciences, Arak, Iran</i> <sup>4</sup> <i>Department of Environmental Health Engineering, School of Health, Bushehr University of Medical Sciences, Bushehr, Iran</i>	112
71	ETHYLENE VINYL ACETATE COPOLYMER / GRAPHENE OXIDE NANOCOMPOSITE PREPARED VIA SOLUTION CASTING METHOD AND DETERMINATION OF THE MECHANICAL PROPERTIES <b>S. Sedaghat</b> <i>Department of chemistry, colleague of science Shahr-e- Qods Branch, Islamic Azad University, Tehran, Ira</i>	113
72	SUSTAINED RELEASE OF CURCUMIN FROM THERMO-RESPONSIVE MOLECULARLY IMPRINTED POLYMER <b>Roya Sedghi, Mehrasa Yassari, Bahareh Heidari</b> <sup>1</sup> <i>Department of polymer &amp; materials chemistry, Faculty of Chemistry and petroleum sciences, Shahid Beheshti University, G.C, 1983969411, Tehran, Iran,</i>	114
73	PREPARATION OF NEW COAXIAL BIOCOMPATIBLE NANOFIBERS FOR BONE TISSUE ENGINEERING <b>R. Sedghi, A. Shaabani, N. Sayyari</b> <i>Department of polymer &amp; materials chemistry, Faculty of Chemistry and petroleum sciences, Shahid Beheshti University, G.C, 1983969411, Tehran, Iran,</i>	115
74	CORROSION PROTECTION OF AM60B MAGNESIUM ALLOY BY SOL-GEL NANOCOMPOSITE <b>D. Seifzadeh, S. Nezamdoust</b> <i>Applied Chemistry Department, University of Mohaghegh Ardabili, University Blv., 5619911367, Ardabil, Iran</i>	116
75	PHOTOSENSITIVE COPOLYMERS ON THE BASIS OF GEM-DISUBSTITUTED VINYLOXYCYCLOPROPANES <b>R.Z. Shahnazarli, A.M. Guliyev</b>	117

	<i>Institute of Polymer Materials of Azerbaijan National Academy of Sciences, S. Vurgun Str., 124, AZ5004, Sumgait, Azerbaijn</i>	
76	<p>SYNERGISTIC EFFECTS IN THE SILICON RUBBER ELECTRICAL CONDUCTING AND MECHANICAL PROPETIES</p> <p><b>L. Shamanauri<sup>1</sup>, E. Markarashvili<sup>2</sup>, T. Tatrshvili<sup>2</sup>, N. Koiava<sup>3</sup>, J. Aneli<sup>2</sup>, O. Mukbaniani<sup>2</sup></b></p> <p><sup>1</sup><i>R. Dvali Institute of Machine Mechanics, Mindeli Str.10, Tbilisi 0186 Republic of Georgia</i></p> <p><sup>2</sup><i>Iv. Javakhishvili Tbilisi State University, Chemical Department of the Faculty of Exact and Natural Sciences I. Chavchavadze Ave.1, Tbilisi, 0176, Georgia</i></p> <p><sup>3</sup><i>Tbilisi State Medical University, Vazha Pshavela Ave., 33, Tbilisi 0183, Georgia</i></p>	118
77	<p>OLIGOMERIC AND POLYMERIC INORGANIC MATERIALS FOR APPLICATION IN VARIOUS TECHNOLOGICAL DOMAINS AND EVERYDAY LIFE</p> <p><b>E.V. Shapakidze<sup>1</sup>, N.A. Esakia<sup>2</sup></b></p> <p><sup>1</sup><i>Iv. Javakhishvili Tbilisi State University Aleksandre Tvalmchrelidze Caucasian Institute of Mineral Resources, 0186, Mindeli str.11, Tbilisi, Georgia</i></p> <p><sup>2</sup><i>Iv. Javakhishvili Tbilisi State University, Faculty of Exact and Natural Sciences; Department of Chemistry, 0179 Chavchavadze ave. 3, Tbilisi, Georgia</i></p>	119
78	<p>HYDROSILYLATION REACTION OF ALLYL-2,3;5,6-DI-O-ISOPROPYLIDENE-D-MANNOFURANOSE WITH METHYL- AND PHENYLCYCLODISILAZANES</p> <p><b>N.N. Sidamonidze, R.O. Vardiashvili and M.O. Nutsbidze</b></p> <p><i>Iv. Javakhishvili State University, Department of Chemistry I. Chavchavadze Ave., 1, 0179, Tbilisi, Georgia</i></p>	120
79	<p>GLYCEROL ETHOXYLATE BASED CROSSLINKED POLYMERS AND THEIR SWELLING PROPERTIES</p> <p><b>S. Kizil, H.B. Sonmez</b></p> <p><i>Department of Chemistry, Gebze Technical University, Gebze/KOCAELI TURKEY</i></p>	121
80	<p>THE NEED TO USE POLYMERIC MATERIALS IN THE DESIGN OF OZOGENERATORS</p> <p><b>L.V. Tabatadze<sup>1,3</sup>, V.V. Shvelidze<sup>2</sup>, M. Elizbarashvili<sup>2</sup>, T.V. Kuchukhidze<sup>3</sup>, R.A. Gakhokidze<sup>2</sup></b></p> <p><sup>1</sup><i>Department of food industry, Georgian Technical University, kostava str, 77, 0175, Tbilisi, Georgia</i></p> <p><sup>2</sup><i>Y. Javakhishvili Tbilisi State University, Chavchavadze Ave, 0179, Tbilisi, Georgia</i></p> <p><sup>3</sup><i>Sukhumi State University, Polytkovskaia str. 9, 0186, Tbilisi, Georgia</i></p>	122
81	<p>ORGANOSILICON POLYMERS WITH PHOTO SWITCHABLE FRAGMENT IN THE SIDE CHAIN</p> <p><b>T. Tatrishvili<sup>1,2</sup>, K. Koynov<sup>3</sup>, M. Barnabishvili<sup>1</sup></b></p> <p><sup>1</sup><i>Ivane Javakhishvili Tbilisi State University, Department of Macromolecular Chemistry; I. Chavchavadze Ave.,1, 0179 Tbilisi, Georgia</i></p> <p><sup>2</sup><i>Institute of Macromolecular Chemistry and Polymeric Materials, Ivane Javakhishvili Tbilisi State University, I. Chavchavadze Ave.,1, 0179 Tbilisi,</i></p>	123



	<p><i>Georgia</i>  <sup>3</sup><i>Max-Planck Institute for Polymer Research, Ackermannweg 10, 55128 Mainz, Germany</i></p>	
82	<p><b>THE MATHEMATICAL DESCRIPTION FOR THEACRINE ELECTROCHEMICAL DETECTION OVER A CONDUCTING POLYMER, BASED ON QUINONIC COMPOUNDS</b>  <b><u>Volodymyr V. Tkach</u><sup>1,2</sup>, Yana G. Ivanushko<sup>1</sup>, Iryna L. Kukovs'ka<sup>1</sup>, Svitlana M. Lukanova<sup>1</sup>, Sílvio C. de Oliveira<sup>2</sup>, Reza Ojani<sup>3</sup>, Petró I. Yagodynets<sup>1</sup></b>  <sup>1</sup><i>Chernivtsi National University, Ukraine</i>  <sup>2</sup><i>Universidade Federal de Mato Grosso do Sul, Brazil</i>  <sup>3</sup><i>University of Mazandaran, Islamic Republic of Iran</i></p>	124
83	<p><b>THE MATHEMATICAL DESCRIPTION FOR DOPAMINE ELECTROCHEMICAL OXIDATION, ACCOMPANIED BY ITS CHEMICAL AND ELECTROCHEMICAL POLYMERIZATION</b>  <b><u>Volodymyr V. Tkach</u><sup>1,2</sup>, Yana G. Ivanushko<sup>1</sup>, Lyudmyla V. Romaniv<sup>1</sup>, Svitlana M. Lukanova<sup>1</sup>, Sílvio C. de Oliveira<sup>2</sup>, Reza Ojani<sup>3</sup>, Petró I. Yagodynets<sup>1</sup></b>  <sup>1</sup><i>Chernivtsi National University, Ukraine</i>  <sup>2</sup><i>Universidade Federal de Mato Grosso do Sul, Brazil</i>  <sup>3</sup><i>University of Mazandaran, Islamic Republic of Iran</i></p>	125
84	<p><b>NANOSILVER CONTAINING BIOCOMPOSITIONS AS ANTIMICROBIAL COATINGS</b>  <b><u>Sh. Tskhadadze</u><sup>1</sup>, N. Kupatadze<sup>2</sup>, M. Gurielidze<sup>2</sup>, M. Gverdtsiteli<sup>2</sup>, D. Tugushi<sup>2</sup>, R. Katsarava<sup>2</sup></b>  <sup>1</sup><i>Research Centre of Medical Biotechnology and Bioengineering, Georgian Technical University, 69, Kostava str. 0175, Tbilisi, Georgia</i>  <sup>2</sup><i>Institute of Chemistry and Molecular Engineering, Agricultural University of Georgia, Kakha Bendukidze University Campus, # 240 David Aghmashenebeli Alley, Tbilisi 0159, Georgia</i></p>	126
85	<p><b>ENCAPSULATION OF HYDROPHOBIC DRUGS INSIDE PEG-PLGA MEMBRANE - A POSSIBLE DRUG-CARRIER SYSTEM</b>  <b><u>Natalia Wilkosz</u><sup>1</sup>, Patrycja Gargas<sup>1</sup>, Lubomir Kovacik<sup>2</sup>, Pawel Wydro<sup>1</sup>, Mariusz Kępczyński<sup>1</sup>, Maria Nowakowska<sup>1</sup></b>  <sup>1</sup><i>Jagiellonian University, Faculty of Chemistry, Ingardena 3, 30-060 Kraków, Poland</i>  <sup>2</sup><i>Charles University in Prague, First Faculty of Medicine, Institute of Cellular Biology and Pathology, Czech Republic, Albertov 4, 128 01 Prague 2, Czech Republic</i></p>	127
86	<p><b>NANOSTRUCTURED HYPERBRANCHED POLYESTER BASED ON GLYCEROL-SUCCINIC ANHYDRIDE: SYNTHESIS, CHARACTERIZATION AND INVESTIGATION</b>  <b><u>M. R. Zamanloo</u>, M. Saleh Shahneshin and Y. Mansoori</b>  <i>Department of Applied Chemistry, Faculty of Basic Science, University of Mohaghegh Ardabili, Ardabil, Iran</i></p>	128
87	<p><b>THE MODERNIZATION OF THE IMMOBILIZED OF THE AZO DYES ON</b></p>	129

	<p>THE SILICA SURFACE BY THE SILICIUM NIRTIDE  <b>T. G. Karkusashvili, Kh. V. Gogaladze, G. G. Kutateladze</b>  <i>Georgian Technical University</i></p>	
88	<p>HYDROGEN INTERACTION WITH MATERIALS-AN OVERVIEW  <b>D. Eliezer</b>  <i>Department of Materials Engineering, Ben-Gurion University, I. Pob 653, Beer-Sheva, Israel</i></p>	130
89	<p>DEGRADATION PROFILE OF ALIPHATIC POLYURETHANES (PURS) MODIFIED WITH L-ASCORBIC ACID (AA) STUDIED IN DIFFERENT ENVIRONMENTS  <b>I. Gubanska, H. Janik, K. Błażek, J. Kucinska-Lipka</b>  <i>Gdańsk University of Technology, Chemical Faculty, Polymer Technological Department. 11/12 Narutowicza Street, 80-232 Gdansk. PL</i></p>	131