

MINISTRY OF EDUCATION AND SCIENCE OF THE REPUBLIC OF KAZAKHSTAN
AL-FARABI KAZAKH NATIONAL UNIVERSITY
FACULTY OF CHEMISTRY AND CHEMICAL TECHNOLOGY
DEPARTMENT OF PHYSICAL CHEMISTRY, CATALYSIS AND PETROCHEMICALS

VIII INTERNATIONAL RUSSIAN-KAZAKH SCIENTIFIC
AND PRACTICAL CONFERENCE

"CHEMICAL TECHNOLOGIES OF FUNCTIONAL
MATERIALS"

CONFERENCE PROGRAM

Almaty, Kazakhstan
April 28 - 29, 2022

ALMATY, 2022

ORGANIZING COMMITTEE

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Nemudry A.P. - member - correspondent of the Russian Academy of Sciences, director of Institute of Solid State Chemistry and Mechanochemistry SB of RAS, Novosibirsk, Russia

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Zagoruiko A.N. - Doctor of Technical Sciences, Leading Researcher, Institute of Catalysis SB of RAS, Novosibirsk, Russia

Aparnev A.I. - Candidate of Chemical Sciences, Docent, Head of Department of Chemistry and Chemical Technology, NSTU, Novosibirsk, Russia

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Bakirova B.S. - PhD, Al-Farabi Kazakh National University, Almaty, Kazakhstan

Local Committee

Bakirova B.S. - Executive Secretary of the Conference, Deputy Head of the Department of Scientific and Innovation Work and International Relations

Zhaksylykova G.Zh. - Candidate of Chemical Sciences, Docent, Department of Physical Chemistry, Catalysis and Petrochemistry

Orynassar R.O. - Candidate of Chemical Sciences, Docent, Department of Physical Chemistry, Catalysis and Petrochemistry

Zhumasheva N.Zh. - Leading Employee of the Department of Physical Chemistry, Catalysis, and Petrochemistry

CONFERENCE SECTIONS

1. Scientific basis for predicting the processes of synthesis, modification, and manufacture of functional materials. Investigation of characteristics of new functional materials. Environmental aspects of the production of functional materials (**hereinafter referred to as "Materials"**).

2. Processes and apparatuses of chemical technologies. Physical and chemical studies of catalytic processes and catalysts of petrochemicals and oil refining (**hereinafter referred to as "Catalysis and Environmental Processes"**).

Speaking Procedure:

at the plenary session - up to 20 minutes;

at sectional meetings - 5 minutes;

talk discussion (Q&A) - 5 minutes

Thursday, April 28, 2022

Conference Opening 10:00 a.m.

Welcome Address

- ✚ Tassibekov Kh.S. – Candidate of Chemical Sciences, Associate Professor, Vice-Rector of Scientific and Innovative Activities of Al-Farabi Kazakh National University, Kazakhstan
- ✚ Bataev A.A. - Doctor of Technical Sciences, Professor, Rector of Novosibirsk State Technical University, Russia
- ✚ Uvarov N.F.- Doctor of Chemical Sciences, Professor, Department of Chemistry and Chemical Technology, Novosibirsk State Technical University, Novosibirsk, Russia
- ✚ Aubakirov Ye.A. - Doctor of Chemical Sciences, Professor, Head of Department of Physical Chemistry, Catalysis and Petrochemistry, Al-Farabi Kazakh National University, Almaty, Kazakhstan

SECTION 1. MATERIALS

Chairman of section - Doctor of Chemical Sciences, Professor N.F. Uvarov

10:20	Nemudry A.P., Materials for fuel cells – the basis of energy of the future <i>Institute of Solid State Chemistry and Mechanochemistry SB of RAS, Novosibirsk, Russia</i>
10:40	Zhasnakunov Zh.K. ¹ , Satyvaldiev A.S. ¹ , Omurzak Emil ² Biological activity of nanocomposites based on silver ¹ I. Arabaeva Kyrgyz State University, Bishkek, Kyrgyzstan ² “Manas” Kyrgyz-Turkish University, Bishkek, Kyrgyzstan
11:00	<u>Alexandrova N.S.</u> , Emurlaeva Y.Y. Study of annealed composite materials based on Al and Zr obtained by explosion welding <i>Novosibirsk State Technical University, Novosibirsk, Russia</i>
11:10	<i>Tarassova A.K.</i> , Zima T.M. Investigation of the process of formation of titanium polyniobates during hydro- and solvothermal treatment of reagents <i>Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia</i> <i>Novosibirsk State Technical University, Novosibirsk, Russia</i>

11:20	<p><u>Simonenko E.V.</u>, Zima T.M. Morphology and microstructure of Li_{β4}Ti₅O₁₂ / -Li₂TiO₃ composites formed during hydrothermal treatment of one-dimensional layered Na₂Ti₃O₇ nanostructures <i>Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia</i> <i>Novosibirsk State Technical University, Novosibirsk, Russia</i></p>
11:30	<p><u>Shvydko A.V.</u>^{1,2}, Lukoyanov I.A.^{1,2}, Kalashnikova G.O.³, Shefer K.I.², Panchenko V.N.^{1,2}, Gerasimov E.Yu.², Melgunov M.S.², Timofeeva M.N.^{1,2} Synthesis of composites based on am-4 and zif-8 layered titanosilicate to obtain glycerol carbonate ¹ <i>Novosibirsk State Technical University, Novosibirsk, Russia</i> ² <i>Institute of Catalysis G.K. Boreskov SB RAS, Novosibirsk, Russia</i> ³ <i>Center for Nanomaterials Science KSC RAS, Russia</i></p>
11:40	<p><u>Krinityna A.A.</u>^{1,2}, Slobodyuk A.B.³, Kirsanova M.A.⁴, Kosova N.V.¹ Synthesis and electrochemical properties of lithium oxyfluorides and d-metals with a disordered structure of rock salt ¹ <i>Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia</i> ² <i>Novosibirsk State University, Novosibirsk, Russia</i> ³ <i>Institute of Chemistry FEB RAS, Vladivostok, Russia</i></p>
11:50	<p><u>Udalova T.A.</u>^{1,2}, Grigorieva T.F.¹, Vosmerikov S.V.¹, Gerasimov K.B.¹, Devyatkina E.T.¹, Lyakhov N.Z.^{1,3} Highly Filled Polymer Mechanocomposites - Radiation -Protective Materials ¹ <i>Institute of Solid State Chemistry and Mechanochemistry, Siberian Branch of the Russian Academy of Sciences, ul. Kutateladze, 18, Russia</i> ² <i>Novosibirsk State Technical University, 630073 Novosibirsk, K. Marx Ave., 20, Russia</i> ³ <i>Novosibirsk State University, 630090, Novosibirsk, st. Pirogova, 2, Russia</i></p>
12:00	<p>Grigorieva T.F.¹, Kiseleva T. Yu.², Vosmerikov S. V.¹, Petrova S. A.³, Talako T. L.⁴, Devyatkina E. T.¹, <u>Udalova T. A.</u>^{1,5}*, Lyakhov N. Z.¹ Mechanochemical Formation of Composites of Iron Aluminides with α-Al₂O₃ ¹ <i>Institute of Solid State Chemistry and Mechanochemistry, Siberian Branch of the Russian Academy of Sciences, ul. Kutateladze, 18, Russia</i> ² <i>Lomonosov Moscow State University M.V. Lomonosov, 119991 Moscow, Leninskiye Gory, 1, Russia</i> ³ <i>Institute of Metallurgy, Ural Branch of the Russian Academy of Sciences, 620016 Ekaterinburg, st. Amundsen, 101, Russia</i> ⁴ <i>National Academy of Sciences of Belarus, Department of Physical and Technical Sciences, 220072 Minsk, Independence Ave., 66, Republic of Belarus</i> ⁵ <i>Novosibirsk State Technical University, 630073 Novosibirsk, K. Marx Ave., 20, Russia</i></p>
12:10	<p>Ovchinnikova S.N.¹, Alexandrova T.P.^{1,2} Desorption behavior of nanofilms self-assembled on gold electrode alkanethiols in various electrolytes ¹ <i>Institute of Solid State Chemistry and Mechanochemistry, Siberian Branch of the Russian Academy of Sciences, Michurina, 15, Novosibirsk 630091, Russia,</i> ² <i>Novosibirsk State Technical University, K. Marx Ave., 20, Novosibirsk 630073, Russia</i></p>
12:20	<p>Isaev D. D.^{1,2,3}, Kriventsov V. V.⁴, Bulina N. V.^{1,2} Study of the structure of hydroxyapatite doped with iron ions ¹ <i>Institute of Solid State Chemistry and Mechanochemistry, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia</i></p>

	<p>² <i>Institute of Mathematical Problems of Biology, Russian Academy of Sciences, Pushchino, Russia</i></p> <p>³ <i>Novosibirsk National Research State University, Novosibirsk, Russia</i></p> <p>⁴ <i>Boreskov Institute of Catalysis, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia</i></p>
12:30	<p>Borisenko T.A.¹, Titkov A.I.¹, Logutenko O.A.¹. Obtaining Silver Nanoparticles of Different Morphology by Reducing Its Salts in Ethylene Glycol in the Presence of Ethoxy-Substituted Carboxylic Acid</p> <p>¹ <i>Institute of Solid State Chemistry and Mechanochemistry, SB RAS, 630090, st. Kutateladze, 18, Novosibirsk, Russia</i></p>
12:40	<p>Dekteryuk YA, Chuvashova EO, Pavlenko VV, Serikbayeva AS Electrochemical investigation of obtained carbon materials for hybrid supercapacitors</p> <p><i>Al - Farabi Kazakh National University, Almaty, Kazakhstan</i></p>
12:50	<p>Osmanzhan G. O., Seylkhanova G.A., Rakhym A. B. Study of the sorption properties of chamotte clay concerning analgin metabolite</p> <p><i>Kazakh National University named after. Al-Farabi, Almaty, Kazakhstan</i></p>

12:50-14:00 Break

14:00	<p>Kungurtsev Yu.E.^{1,2}, Bagryantseva I.N.¹, Ponomareva V.G.^{one} Investigation of proton-conducting membranes based on cesium dihydrophosphate and copolymer of tetrafluoroethylene with vinyl difluoride</p> <p>¹ <i>630090 Novosibirsk region, Novosibirsk, Novosibirsk State University, Russia</i></p> <p>² <i>630090 Novosibirsk region, Novosibirsk, Institute of Solid State Chemistry and Mechanochemistry, Siberian Branch of the Russian Academy of Sciences, Russia</i></p>
14:10	<p>Uvarov N.F.^{1,2}, Ulikhin A.S.¹, Mateyshina Yu.G.¹² Influence of the Structure of the Cation on the Transport Properties of Substituted Ammonium Salts</p> <p>¹ <i>Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia</i></p> <p>² <i>Novosibirsk State Technical University, Novosibirsk, Russia</i></p>
14:20	<p>Shindrov A.A., Mishchenko K.V., Semykina D.O., Podgornova O.A., Kosova N.V. Conductive and electrochemical properties of solid electrolyte Na_{3.2}Zr₂Si_{2.2}P_{0.8}O₁₂ obtained using mechanically stimulated solid-phase synthesis</p> <p><i>Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia</i></p>
14 : 30	<p>Seidulayeva A.A., Ospanova A.K., Rakhmatullayeva D.T. Study of the antibacterial properties of modified surgical sutures</p> <p><i>Al-Farabi Kazakh National University, Almaty, Kazakhstan</i></p>
14 : 40	<p>Alekseev D. V., Mateyshina Yu. G. Effect of nanodiamond additive on ionic conductivity of organic salt (C₂H₅)₃CH₃NBF₄</p> <p>Novosibirsk National Research State University Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk Novosibirsk State Technical University, Novosibirsk, Russia</p>
14 : 50	<p>Bronsky M. G., Zaitseva N.A., Kostyukov A.I., Snytnikov V.N. Laser synthesis and properties of catalytically active CrOx/Al₂O₃ nanoparticles for dehydrogenation of light alkanes</p> <p>G.K. Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia</p>

15 : 00	Lazarenko N.S., Golovin V.V., Bannov A.G. Synthesis of carbonized materials from crushed corn rods, with a view to their further application in supercapacitors Novosibirsk State Technical University, Novosibirsk, Russia
15 : 10	Petrova Yu. Yu., Bulatova E.V., Mateishina Yu.G. Quercetin-imprinted phenyl-amino-formaldehyde resins ¹ Surgut State University, Surgut, Russia ² Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia, ³ Novosibirsk State Technical University, Novosibirsk, Russia.
15 : 20	Nashivochnikov A.A. ^{1,2} , Kostyukov A.I. ^{1,2} , Albrecht Ya.N. ¹ , Snytnikov V.N. ² Synthesis of ZrO₂:Eu³⁺ nanoparticles by laser evaporation and investigation of their luminescent properties ¹ Novosibirsk State University, Novosibirsk, Russia ² Boreskov Institute of Catalysis of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia
15 : 30	Mikhailenko M.A. ¹ , Antonov I.M. ¹ , Shakhtschneider T.P. ¹ , Bryazgin A.A. ² , Yeltsov I.V. ³ Radiation-chemical method for obtaining pH-sensitive material based on chitosan ¹ Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia ² Budker Institute of Nuclear Physics SB RAS, Novosibirsk, Russia ³ Novosibirsk National Research State University, Novosibirsk, Russia
15 : 40	Petrova Yu. Yu., Bulatova E.V., Zelentsov D.O., Mateishina Yu.G. Molecular imprinting of perilendiimide dyes on the surface of titanium dioxide nanoparticles ¹ Surgut State University, Surgut, Russia ² Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia, ³ Novosibirsk State Technical University, Novosibirsk, Russia.
15 : 50	Yukhin Yu. M., Koledova E.S., Timakova E.V., Mishchenko K.V. Preparation of bismuth oxide for functional materials Institute of Solid State Chemistry and Mechanochemistry of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia
16 : 00	Semykina D.O., Shindrov A.A., Kosova N.V. Solid-phase synthesis of phosphate cathode materials for solid-state lithium- and sodium-ion batteries Institute of Solid State Chemistry and Mechanochemistry of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia
16 : 10	Mishchenko K.V. ¹ , Krinitsyna A.A. ^{1,2} , Podgornova O.A. ¹ , Semykina D.O. ¹ , Shindrov A.A. ¹ , Kosova N.V. ¹ Comparison of electrochemical properties of oxides and oxyfluoride with disordered rock salt structure ¹ Institute of Solid State Chemistry and Mechanochemistry of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia ² Novosibirsk State University, Novosibirsk, Russia
16 : 20	Kostyukov A.I. ^{1,2} , Nashivochnikov A.A. ^{1,2} , Panchenko V.N. ² Laser synthesis of Eu-containing nanopowders based on the monoclinic phase Y₂O₃ with improved luminescent characteristics ¹ Federal State Autonomous Educational Institution of Higher Education "Novosibirsk National Research State University", Novosibirsk, Russia ² Federal Research Center "G.K. Boreskov Institute of Catalysis of the

	Siberian Branch of the Russian Academy of Sciences", Novosibirsk, Russia
16 : 30	Koreneva O.A., Zima T.M. Solvothermal synthesis and crystallization of LiFePO₄ nanoparticles Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia Novosibirsk State Technical University, Novosibirsk, Russia
16 : 40	Ventlyand E.P., Gorbunov F.K., Fadina A.A., Mikhailenko M.A. Investigation of the effect of ionizing and ultraviolet radiation on the properties of polymer composites based on injection-molded polyurethane Novosibirsk State Technical University, Institute of Solid State Chemistry and Mechanochemistry of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia
16 : 50	Reich E. A., Makarov A. Yu. Synthesis of 4,5,6,7-TETRAFLUORO-2,1,3-benzothiadiazole derivatives by substitution of fluorine with c-nucleophiles 1. Novosibirsk State Technical University, 630073, Novosibirsk, Russia. 2. Novosibirsk Institute of Organic Chemistry named after N.N. Vorozhtsov SB RAS, Novosibirsk, Russia
17 : 00	Makarova S.V., Shatskaya S.S., Golubeva Yu.A., Klyushova L.S., Bulina N.V. Investigation of the properties of mechanochemically synthesized hydroxyapatite with the simultaneous substitution for zinc and silicon ions ¹ Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia. ² A.V. Nikolaev Institute of Inorganic Chemistry SB RAS, Novosibirsk, Russia. ³ Novosibirsk State University, Novosibirsk, Russia. ⁴ Scientific Research Institute of Molecular Biology and Biophysics of FITZ FTM SB RAS, Novosibirsk, Russia.
17 : 10	Shevchenko N. S., Gusev A. A. Synthesis of Pb₃Fe₂WO₉ using high-energy mechanochemical activation Institute of Solid State Chemistry and Mechanochemistry of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia
17 : 20	Podgornova O.A., Mishchenko K.V., Semykina D.O., Shindrov A.A., Kosova N.V. Interrelation of composition, structure and electrochemical properties of cathode materials based on Li_{1,2+y}Nb_{3y}Ti_{0,4-4y}Mn_{0,4}O₂. Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia.
17 : 30	Tregubova K.V. ¹ , Gurkovsky V.V. ¹ , Mishchenko T.I. ² , Gromov N.V. ^{1,2} Synthesis of a nanocomposite material (catalyst) based on cellulose and oxides for the disposal of ecotoxicants in wastewater ¹ Novosibirsk State Technical University, Novosibirsk, Russia ² Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

SECTION 2. Catalysis and Environmental Processes

Chairman of section - Doctor of Chemical Sciences, Professor Aubakirov Ye.A.

10 : 30	Telkhozhayeva M., Konar R., Nessim G.D. Phase-dependent photocatalytic activity of bulk and exfoliated defect-controlled flakes of layered copper sulfides under simulated solar light <i>The Department of Chemistry, Bar-Ilan University, Ramat Gan 52900, Israel. Bar-Ilan Institute of Nanotechnology & Advanced Materials, Bar-Ilan University, Ramat Gan 52900, Israel.</i>
11 : 00	Zagoruiko A.N. ^{1,2} , Lopatin S.A. ^{1,2} Microfibre catalysts: history and prospects ¹ Institute of Catalysis SB RAS, Novosibirsk, Russia ² Tyumen State University, Russia
11 : 30	<u>Sailau A.G.</u> , Rakhmatullayeva D.T., Ospanova A.K. Obtaining antibacterial coatings on textile products for the medical purpose by the method of multilayer assembly <i>Al-Farabi Kazakh National University, Almaty, Kazakhstan</i>
11 : 50	Ermekbaeva G.T., Akan A. Smagulova N.T. Obtaining coke from the fraction of hydrotreated coke chemical resin <i>Al-Farabi Kazakh National University, Almaty, Kazakhstan</i>
12 : 10	Tsymbalova E.A., Bogomolova T.S., Smirnova M.Yu., Klimov O.V., Noskov A.S. Hydroisomerization catalysts based on zeolite ZSM-23 and transition metal sulfides 1 Novosibirsk State Technical University, Novosibirsk, Russian Federation 2 Borekov Institute of Catalysis SB RAS, Novosibirsk, Russian Federation
12 : 30	Belobaba A.G. Analysis of possible methods of copper extraction from waste solutions of Printed circuit board Production <i>Institute of Solid State Chemistry and Mechanochemistry of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia</i>
12 : 50	Golyashova K. E., Zagoruiko A.N. Activity of fiberglass catalysts in CO, C₃H₈ oxidation and NO reduction reactions <i>Borekov Institute of Catalysis SB RAS, Novosibirsk, Russia</i>

12:50-14:00 Break

14 : 10	Zazhigalov S.V., Zagoruiko A. N. Mathematical modeling of the oxidation of volatile organic compounds in a reactor with a side feed of the mixture in the reverse process <i>Borekov Institute of Catalysis SB RAS, Novosibirsk, Russia</i>
14 : 30	Lopatin S.A., Baranov D. V., Zagoruiko A.N. Fiberglass catalysts in safe heating processors with the function of air purification from harmful impurities 1 Borekov Institute of Catalysis, Novosibirsk, Russia 2 Novosibirsk National Research State University, Novosibirsk, Russia
14 : 50	Baranov D. V., Lopatin S.A., Zagoruiko A.N. Deep oxidation of toluene in catalytic cartridges on fiberglass catalysts with different geometry and structure of the carrier

	1 Boreskov Institute of Catalysis, Novosibirsk, Russia 2 Novosibirsk National Research State University, Novosibirsk, Russia
15 : 20	Zhanbyrbaeva L.D., Akan A., Smagulova N.T. Chemical composition of distillate fractions of coke chemical resin of Shubarkol coal Al-Farabi Kazakh National University, Almaty, Kazakhstan
15 : 50	Shevtsov D.M., Ilyina E.V., Koskin A.P., Bedilo A.F. Synthesis of aerogel catalysts Pd/MgO-Al₂O₃ for the dehydrogenation reaction of perhydrophenazine 1. Novosibirsk State Technical University, Novosibirsk, Russia 2. Institute of Catalysis of the Siberian Branch of the Russian Academy of Sciences named after Georgy Konstantinovich Boreskov, Novosibirsk, Russia
16 : 20	Talabayeva N.S., Baizhumanova T.S. Partial oxidation of methane into synthesis gas on manganese catalysts 1 D.V. Sokolsky Institute of Fuel, Catalysis and Electrochemistry, Almaty, Kazakhstan 2 Al-Farabi Kazakh National University, Almaty, Kazakhstan
16 : 50	Skripkina T. S. Energy efficiency of mechanochemical processes of processing natural polyphenols Institute of Solid State Chemistry and Mechanochemistry of the Siberian Branch, Novosibirsk, Russia
17 : 00	Akhmetova F.Zh., Aubakirov Y.A., Tashmukhambetova Zh.Kh., Iskakova R.A., Narenova S.M., ¹ Satayeva S. Study of modified natural zeolite catalysts for the chemical processing of polymer wastes. Al-Farabi Kazakh National University, Almaty, Kazakhstan ¹ Zhangirkhan West-Kazakhstan agrarian technical university, Uralsk, Kazakhstan

Friday, April 29, 2022

SECTION 1. MATERIALS

Chairman of section - Doctor of Chemical Sciences, Professor N.F. Uvarov

10 : 00	Larina T.V. Fundamentals of the UV-View spectrophotometry method for the analysis of the electronic state of cobalt in various functional materials Institute of Catalysis SB RAS, Novosibirsk, Russia
10 : 20	Kutlimuratova N.H., Tursunkulov Zh.B., Rakhimov S.B., Akhmedova U.R., Kolyadin V.G. Extraction-spectrophotometric determination of zirconium with a solution of 1-(2-hydroxy-1-naphthoyazo)-2-naphthol-4-sulfonic acids Mirzo Ulugbek National University of Uzbekistan, Uzbekistan
10 : 40	Tsydypyllov D.Z. ^{1,2} , Kosova N.V. ¹ Optimization of electrochemical properties of TiNb₂O₇ - a new generation anode material for lithium-ion batteries 1 Institute of Solid State Chemistry and Mechanochemistry of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia 2 Novosibirsk State University, Novosibirsk, Russia
10 : 50	Shulev V.V. ¹ , Gurin N.A. ² , Turlo E.M. ¹ Research of optical adhesives for dual-use products 1 Novosibirsk State Technical University, Novosibirsk, Russia 2actionary Company "Novosibirsk instrument-making Plant", Novosibirsk,

	Russia
11 : 00	Kuchumova I. D. ^{1,2} , Kвашnin V.I. ^{1,2} , Ukhina A.V. ³ , Batraev I.S. ² The effect of heat treatment on the hardness and wear resistance of coatings made of multicomponent iron-based alloy 1 Novosibirsk State Technical University, Novosibirsk, Russia Lavrentiev Institute of Hydrodynamics SB RAS, Novosibirsk, Russia 3 Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia
11 : 10	Safarova D. E., Ivanov I.V. Influence of annealing parameters on the structure and properties of the high-entropy alloy Al_{0.3}CoCrFeNi Novosibirsk State Technical University, Novosibirsk, Russia
11 : 30	Khudainazarova F.S. ¹ , Nurmanov S.E. ¹ , Fayzullayeva M.F. ² , Kaledin V.G. ¹ . Analysis of acetylene soot by optical emission spectrometry 1 National University of Uzbekistan, Uzbekistan 2 Korkyt Ata Kyzylorda University, Kyzylorda, Kazakhstan
11 : 40	Lavrentiev D.D., Novgorodtseva O.N. The influence of various factors on the quality of the coating obtained by chemical nickel plating of steel 1 Novosibirsk State Technical University, Novosibirsk, Russia 2 Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia
12 : 00	Bushueva E.G., Tarlo E.M., Klavdieva E.V. Multifunctional layers obtained by high-energy processing Novosibirsk State Technical University, Novosibirsk, Russia
12 : 10	Zhumadilova Y.S., Alimbek A.E., Ospanova A.A., Bekisanova Zh.B. Study of the conditions for obtaining a composite material based on the kaolin compound of the Alekseevsk deposit <i>Kazakh National University named al-Farabi, Almaty, Kazakhstan</i>
12 : 20	Ponomareva V.G., Bagryantseva I.N. Electric transport and morphological features of nanocomposite systems CsH₂PO₄-nanodiamonds Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia
12 : 30	Shutilov A.A., Zenkovets G.A. Physico-chemical aspects of the introduction of iron oxide into the composition of Pt/TiO₂ and its effect on the catalytic properties of the resulting functional material in the oxidation reaction with CO Boreskov Institute of Catalysis of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia
12 : 40	Tuletbekov E.D., Daurenbek M.A. About new materials based on complex sulfides and their application NAO "M.H. Dulati Taraz Regional University", Taraz, Kazakhstan
12 : 50	<u>Maksotova K.S., Kalikh D.T., Omirzakova A.T., Bakirova B.S., Akbayeva D.N.</u> Investigation of thermodynamic and catalytic properties of polymermetallic complex based on copper (II) acetate and polyvinyl alcohol <i>Al-Farabi Kazakh national university, Almaty, Kazakhstan</i>

12:50-14:00 Break

14 : 00	Glazov N.A., Dick P.P., Zagoruiko A.N. Improved molecular reconstruction algorithm for heavy oil fractions Boreskov Institute of Catalysis, Novosibirsk, Russia
14 : 10	Yangieva S.B. ¹ , Smanova Z.A. ² Investigation of complexes of some

	<p>derivatives of gossypol with divalent metal ions 1 Mirzo Ulugbek National University of Uzbekistan 2 National University of Uzbekistan, Tashkent</p>
14 : 30	<p>Nepochatov Yu.K.¹, Pletnev P.M.², Gudyma T.S.³, Krutskaya T.M.⁴ Development of technology for metallization of ceramics from aluminum nitride 1HK PJSC "NEVZ-Soyuz", Novosibirsk, Russia 2 Siberian State University of Railway Transport, Novosibirsk, Russia 3 Novosibirsk State Technical University, Novosibirsk, Russia 4 Novosibirsk State University of Architecture and Civil Engineering, Novosibirsk, Russia</p>
14 : 40	<p>Pukhova E. A., Bushueva E.G., Plotnikova N.V. Assessment of the level of heat resistance of steel 12X18N9T modified by the method of vacuum electron beam treatment Novosibirsk State Technical University, Novosibirsk, Russia</p>
14 : 50	<p>Nepochatov Yu.K., Pletnev P.M., Kosarev V.F., Gudyma T.S. Development of technology for applying thick layers of copper on ceramic substrates for power electronics 1HK PJSC "NEVZ-Soyuz", Novosibirsk, Russia 2 Siberian State University of Railway Transport, Novosibirsk, Russia 3 Institute of Theoretical and Applied Mechanics SB RAS, Novosibirsk, Russia 4 Novosibirsk State Technical University, Novosibirsk, Russia</p>
15 : 00	<p>Zhdanov A.A.¹, Korotaeva Z.A.¹, Berdnikova L.K.¹, Samuel D.S.^{2*}, Bulgakov V.V.¹ Production of high-strength ceramics based on barium aluminate 1 Institute of Solid State Chemistry and Mechanochemistry of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia 2 Novosibirsk State Technical University, Novosibirsk, Russia</p>
15 : 10	<p>Anufrieva T.V., Lapkin N.I., Bannov A.G. Solvent effect on sensory properties of multi-walled carbon nanotubes Novosibirsk State Technical University, Novosibirsk, Russia</p>
15 : 20	<p>Koledova E.S., Yukhin Y.M. Obtaining bismuth citrate Institute of Solid State Chemistry and Mechanochemistry of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia</p>
15 : 30	<p>Shakirzyanova G.S.¹, Izotova L.Yu.¹, Babaev B.N.^{1,2} Synthesis of condensed derivatives of 5-mercapto-3-phenyl-1,3,4-thiadiazol-2-thione 1 Institute of Bioorganic Chemistry Uzbek Academy of Sciences The National University of Uzbekistan named after Mirzo Ulugbek, Tashkent, Uzbekistan</p>
15 : 40	<p>Gudyma T.S., Krutsky Y.L., Podzorova V.P., Cherkasova N.Yu. Synthesis and consolidation of composite materials B₄C–ZrB₂ Novosibirsk State Technical University, Novosibirsk, Russia</p>
15 : 50	<p>Belousova V.D., Zima T.M. Hydrothermal synthesis of nanostructured composites based on lithium-titanium spinel Institute of Solid State Chemistry and Mechanochemistry SB RAS , Novosibirsk, Russia Novosibirsk State Technical University, Novosibirsk, Russia</p>
16 : 00	<p>Nizovsky A.I., Shmakov A.N., Kulikov A.V., Bukhtiyarov V.I. Material for hydrogen cartridges based on aluminum G.K. Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia</p>

SECTION 2. Catalysis and Environmental Processes

Chair of section - Doctor of Chemical Sciences, Associated Professor Akbayeva D.N.

10 : 00	Toshtay K. Selective hydrogenation of vegetable oils on platinum supported catalysts <i>Al-Farabi Kazakh National University, Almaty, Kazakhstan</i>
10 : 20	Abdollah Esmaeili, Aubakirov Ye., Kanapiyeva F. M. Production Optimization of an Oil Reservoir <i>al-Farabi Kazakh National University, Almaty, Kazakhstan</i>
10 : 40	<u>Ussenov N.K.</u> , Smagulova N.T. Catalytic processing of distillate fractions of resin of semi-coking coal of the Shubarkul deposit <i>Al-Farabi Kazakh National University, Almaty, Kazakhstan</i>
11 : 00	<u>Maksotova K.S.</u> , Bakirova B.S., Smagulova I.A., Tatykhanova G., Shakhvorostov A., Akbayeva D.N., Kudaibergenov S.E. Study of alcohols oxidation by catalase encapsulated within macroporous polyampholyte cryogel matrix <i>Al-Farabi Kazakh national university, Almaty, Kazakhstan</i>
11 : 20	<u>Nurtazina N.D.</u> ^{1*} , Azhigulova R.N. ¹ , Uvarov N.F. ² Amino acid leaching of chalcopyrite in the presence of hydrogen peroxide in an alkaline medium ¹ <i>Al-Farabi Kazakh National University, Almaty, Kazakhstan</i> ² <i>Institute of Solid State Chemistry and Mechanochemistry of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia</i>
11 : 40	Marchuk A. S., Zenkovec G.A., Shutilov A.A., Bondareva V.M., Sobolev V.I.1, Tsybulya S.V., Prosvirin I.P. Properties of the multicomponent oxide catalyst MoVNbSbCeOx/SiO2 in the oxidative dehydrogenation of ethane ¹ <i>Institute of Catalysis, Russian Academy of Sciences, G.K. Boreskov, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia</i> ² <i>Novosibirsk State University, Novosibirsk, Russia</i>
12 : 00	Tryakhov D.E., Politov A. A. Obtaining 3D structures of nanostarch by methods of chemo-mechanical processing <i>Novosibirsk State University, Novosibirsk, Russia</i> <i>Institute of Solid State Chemistry and Mechanochemistry of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia</i>
12 : 20	Kadirova H.B. ¹ , Abdurikhimov A.A. ² , Salikhanova D.C. ³ Efficient use of secondary resources in the oil industry ¹ <i>Ferghana polytechnic institute, Uzbekistan</i> ² <i>“O’zyog’moy sanoati, Uzbekistan</i> ³ <i>Academy of Sciences of Uzbekistan, Institute of General and Inorganic Chemistry</i>
12 : 40	Abdollah Esmaeili, Aubakirov Ye., Kanapiyeva F. M. Treating Produced Water from an Oil Reservoir for Re-Injection and Enhanced Oil Recovery <i>al-Farabi Kazakh National University, Almaty, Kazakhstan</i>

13 : 00 -14 : 00 Break

14 : 10	<u>Litvinova Y.D.</u> , Skurikhina K.A., Bezrukov A.N., Galyametdinov Y.G. Polymer Fractionation by Microfluidic H-sensor Serpentine Chips <i>Kazan National Research Technological University, Kazan, Tatarstan, Russian</i>
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14 : 30	Tashmukhambetova Zh.Kh., <u>Kalamgali T.O.</u> , Aubakirov Ye.A., Sassykova L.R., Akhmetova F.Zh., Alpysbay A. Investigation of the activity of catalysts for thermocatalytic hydrogenation processing of polymer waste <i>Al-Farabi Kazakh National University, Almaty, Kazakhstan.</i>
14 : 50	Abdollah Esmaeili, Aubakirov Ye. A, Kanapiyeva F. M. Proposing new technological solutions for produced water management in an oil field <i>al-Farabi Kazakh National University. Almaty, Kazakhstan</i>
15 : 10	Parmanov A. ¹ , Nurmonov S. ¹ , Ziyadullaev O. ² , Fayzullaeva M. ³ , Tursunov Sh ¹ . Synthesis of vinyl esters of some aromatic carboxylic acids <i>Chemistry of Department of General and Petrochemical Chemistry, Faculty of Chemistry, National University of Uzbekistan, Uzbekistan</i> <i>State Pedagogical Institute, Uzbekistan</i> <i>Kyzylorda University named after Korkyt Ata, Kazakhstan</i>
15 : 30	Zhamantay N., Toshtay K., Aubakirov Ye. A. Influence of magnetic field on the processes of structure formation in oil dispersion systems <i>Al-Farabi Kazakh National University, Almaty, Kazakhstan</i>
15 : 50	Manabayeva A. ^{1,2} , Kaumenova G.N. ² , Murzin D.Yu ⁴ , Tungatarova S.A. ^{2,3} , Zhumabek M. ² , Talasbayeva N.S. ³ Dry reforming of methane on Ni-Al and Ni-Fe-Al catalysts <i>¹Kazakh-British Technical University, Almaty, Kazakhstan</i> <i>²D.V. Sokolsky Institute of Fuel, Catalysis and Electrochemistry, Almaty, Kazakhstan</i> <i>³al-Farabi Kazakh National University, Almaty, Kazakhstan</i> <i>⁴Abo Akademi University, Process Chemistry Centre, Turku, Finland</i>
16 : 10	Massalimova B.K. ¹ , Darhanbek A. ¹ , Kalmakhanova M.S. ^{1*} Application of natural and pillared clays in water treatment by adsorption and catalytic wet peroxide oxidation <i>M.KH. Dulaty Taraz regional University, Taraz. Department of Chemistry and Chemical Engineering, Tole bi 63, Taraz, Kazakhstan</i>
16 : 30	Shalmagambetov K.M., Vavasori A., Zhaksylykova G.Zh., Kanapiyeva F.M., Kudaibergenov N.Zh., Bulybayev M.Y., Almatkyzy P. Hydroalcooxycarbonylation of linear olefins in the presence of various alcohols and PdCl₂(PPh₃)₂-PPh₃-AlCl₃ system <i>¹Center of Physical-Chemical Methods of Research and Analysis, Al-Farabi Kazakh National University, Almaty, Kazakhstan</i> <i>²Department of Molecular Science and Nanosystems, Ca' Foscari University Venice, Scientific Campus, Venezia, Italy</i>
16 : 50	Abdollah Esmaeili, Aubakirov Ye. A., Kanapiyeva F. M. Minimum Miscibility Pressure Prediction for an Oil Reservoir <i>al-Farabi Kazakh National University, Almaty, Kazakhstan</i>
17 : 00	A.K.Zhumabekova*, L.K.Tastanova, R.O.Orynassar, E.A. Aubakirov. Conversion of model C6-C9 alkanes and straight-run gasoline over Pt(0.1%)-Fe(5%)/Al₂O₃ catalysts promoted with various additives <i>Al-Farabi Kazakh National University, Almaty, Kazakhstan</i>

17:00 General meeting, discussion, summarizing the conference

Poster presentations

Section 1. Materials

1	Stebnickiy I.A. ^{1,2} , Mateishina Yu.G. ^{1,2,3} Transport properties of solid electrolytes
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	<p>(1-x)Bu₄NBF₄-xBu₃MeNBF₄ ¹ <i>Institute of Solid State Chemistry and Mechanochemistry SB of RAS, Novosibirsk, Russia</i> ² <i>Novosibirsk National Research State University, Novosibirsk, Russia</i> ³ <i>Novosibirsk State Technical University, Novosibirsk, Russia</i></p>
2	<p>Brester A.Y.¹, Shvecov D.A.², Pavlenko A.N.² Flicker noise during explosive boiling of a liquid under reduced pressure conditions ¹ <i>Novosibirsk State Technical University, Novosibirsk, Russia</i> ² <i>S.S. Kutateladze Institute of Thermal Physics, SB RAS, Novosibirsk, Russia.</i></p>
3	<p>Korotayeva Z.A.¹, Bulgakov V.V.¹, Berdnikova L.K.¹, Zhdanok A.A.¹, Samuel D.S.² Corundum ceramics based on a binder obtained by a mechanochemical method <i>Institute of Solid State Chemistry and Mechanochemistry SB of RAS, Novosibirsk, Russia</i> ² <i>Novosibirsk State Technical University, Novosibirsk, Russia</i></p>
4	<p>Tolochko B.P.¹, Zhdanok A.A.¹, Kuznecov V.A.¹, Korotayeva Z.A.¹, Berdnikova L.K.¹, Mihailenko M.A.¹, Stepanova N.V.² Influence of carbon nanotubes on the properties of cast copper samples 1. <i>Institute of Solid State Chemistry and Mechanochemistry SB of RAS, Novosibirsk, Russia</i> 2. <i>Novosibirsk State Technical University, Novosibirsk, Russia</i></p>
5	<p>Bulina N.V., Vinokurova O.B., Yeremina N.V., Chaikina M.V. Mechanochemical synthesis and study of the thermal stability of hydroxyapatite doped with copper ions <i>Institute of Solid State Chemistry and Mechanochemistry SB of RAS, Novosibirsk, Russia</i></p>
6	<p><u>Rybkina A.S.</u>, Vorobyeva A. Ye., Golovakhin V.V., Brester A.Ye. Study of the process of electrochemical modification of multilayer carbon nanotubes <i>Novosibirsk State Technical University, Novosibirsk, Russia</i></p>
7	<p><u>Rybkina A.S.</u>, Vorobyeva A. Ye., Golovakhin V.V., Brester A.Ye. Study of the process of electrochemical processing of nanofibrous carbon <i>Novosibirsk State Technical University, Novosibirsk, Russia</i></p>
8	<p>Ponimareva V.G.¹, Bagryanceva I.N.¹, Uvarov N.F.^{1,2} Electrotransport and thermal properties of tetrabutylammonium hydrosulfate ¹ <i>Institute of Solid State Chemistry and Mechanochemistry SB of RAS, Novosibirsk, Russia</i> ² <i>Novosibirsk State Technical University, Novosibirsk, Russia</i></p>
9	<p>Ponimareva V.G.¹, Bagryanceva I.N.¹, Uvarov N.F.^{1,2} Proton conductivity, thermodynamic and structural properties of tetraethylammonium hydrosulfate and composites based on it ¹ <i>Institute of Solid State Chemistry and Mechanochemistry SB of RAS, Novosibirsk, Russia</i> ² <i>Novosibirsk State Technical University, Novosibirsk, Russia</i></p>

Section 2. Catalysis and processes

1	<p>Myz S.A.¹, Politov A.A.¹, Kuznecova S.A.², Shakhtshneider T.P.¹ Morphological control of the synthesis of mixed crystals of betulin with dicarboxylic acids during heating 1 <i>Institute of Solid State Chemistry and Mechanochemistry SB of RAS, Novosibirsk, Russia</i></p>
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	<i>2 Institute of Chemistry and Chemical Technology SB of RAS, Krasnoyarsk, Russia</i>
2	Kairbekov Zh.K., Zheldybayeva I.M.*, Kairbekov A.Zh., Suimbayeva S.M., Moldabayev A. The use of preliminary ozonolysis and γ-radiation to increase the reactivity of coal from the TALDYKOL deposit during hydrogenation <i>al-Farabi Kazakh National University, Almaty, Kazakhstan</i>
3	Kairbekov Zh.K., Zheldybayeva I.M.*, Kairbekov A.Zh., Suimbayeva S.M. Selective hydrogenation of isoprene and piperylene on multicomponent skeletal catalysts <i>al-Farabi Kazakh National University, Almaty, Kazakhstan</i>
4	Altundag, Busem; Erarslan, Ziya Gunduzalp; Kılıc, Ebru; Tansu, Sercan ; Tufekci, Sevgi; Dogan, Mert Yekta; Akansu, Hale; Arbag, Huseyin Investigation of resistances of nickel-cobalt catalysts to sulfur in the dry reforming reaction of methane <i>Department of Chemical Engineering, Gazi University, Ankara, Turkey</i>
5	Barshabayeva A. Study of the effectiveness of alternative methods of influence as a direction for the intensification of processing processes <i>al-Farabi Kazakh National University, Almaty, Kazakhstan</i>

Absentee participation

Section 1. Materials

1	Rodrigues L.A., Shircov D.M., Mateshina Yu.G. Transport properties of solid composite electrolytes (1-x) NaNO₂-xAl₂O₃ <i>1. Institute of Solid State Chemistry and Mechanochemistry SB of RAS, Novosibirsk, Russia</i> <i>2. Novosibirsk State Technical University, Novosibirsk, Russia</i> <i>3. Institute of Catalysis SB of RAS, Novosibirsk, Russia</i>
2	Sapaev F.A. ¹ , Islomov A.Kh., Kholikov T.S., Tadzhimukhamedov Kh.S. Synthesis of benzoic acid esters <i>Mirzo Ulugbek National University of Uzbekistan, Tashkent, Republic of Uzbekistan</i>
3	Kutlimurotova R.Kh., Pulatova L.T., Shakirova D.N. Investigation of components of plant extracts from asarum europaeum L <i>1. Mirzo Ulugbek National University of Uzbekistan, Tashkent, Republic of Uzbekistan</i> <i>2. Customs Institute of the Republic of Uzbekistan, Uzbekistan</i> <i>3. Tashkent Pharmaceutical Institute, Tashkent, Uzbekistan</i>
4	Ukhina A.V. ¹ , Dudina D.V. ^{1, 2} , Bokhonov B.B. ¹ , Samoshkin D.A. ³ , Stankus S.V. ³ , Savinceva D.V. ⁴ Influence of Synthetic Diamond Surface Modification on Thermal Conductivity of “Copper+Diamond” Composites <i>¹ Institute of Solid State Chemistry and Mechanochemistry SB of RAS, Novosibirsk, Russia</i> <i>² M. A. Lavrentiev Institute of Hydrodynamics, SB of RAS, Novosibirsk, Russia</i> <i>³ S.S. Kutateladze Institute of Thermal Physics, SB of RAS, Novosibirsk, Russia</i> <i>⁴ Novosibirsk State Technical University, Novosibirsk, Russia</i>
5	Timakova E.V. ^{1,2} , Timakova T.E. ¹ , Afonina L.I. ^{1,2} , Gerasimov K.B. ² Thermal transformations of some bismuth(III) tartrates <i>¹ Novosibirsk State Technical University, Novosibirsk, Russia</i> <i>² Institute of Solid State Chemistry and Mechanochemistry SB of RAS, Novosibirsk, Russia</i>

6	<p>Grigoryeva T. F.^{1*}, Vosmerikov S.V.¹, Dudina D.V.^{1,2,3} Kovaleva S.A.⁴, Devyatkina E.T.¹, Lyakhov N.Z.^{1,5}</p> <p>Mechanochemical synthesis and consolidation by electro spark sintering of composites Al/Cu₉Al₄</p> <p>1. <i>Institute of Solid State Chemistry and Mechanochemistry SB of RAS, Novosibirsk, Russia</i></p> <p>2. <i>M. A. Lavrentiev Institute of Hydrodynamics, SB of RAS, Novosibirsk, Russia</i></p> <p>3. <i>Novosibirsk State Technical University, Novosibirsk, Russia</i></p> <p>4. <i>Joint Institute of Mechanical Engineering of the National Academy of Sciences of Belarus, Republic of Belarus</i></p> <p>5. <i>Novosibirsk State University, Novosibirsk, Russia</i></p>
7	<p>Koreshkova D. A., Simakova I.L. Study of hydrogenation reaction of citral to menthol in the presence of nickel catalysts</p> <p>1. <i>Novosibirsk State Technical University, Novosibirsk, Russia</i></p> <p>2. <i>G.K. Boreskov Institute of Catalysis, SB of RAS, Novosibirsk, Russia</i></p>
8	<p>Zhorzholiani N. B., Shalvashvili N. I., Lomtadze O. G N. Environmentally Friendly and Low - Hazardous Plant Protection Means</p> <p><i>Petre Melikishvili Institute of Physical and Organic Chemistry of Ivane Javakhishvili Tbilisi State University, Tbilisi, Georgia</i></p>
9	<p>Podolyako I.A.¹, Ilyin I.Yu.² Study of the effect of fluorinated substituents in beta-diketone ligands on the thermal properties and binding energy of their ligand in complexes [IrCodL]</p> <p>¹ <i>Novosibirsk State University, Novosibirsk, Russia</i></p> <p>² <i>A.V. Nikolaev Institute of Inorganic Chemistry, SB of RAS, Novosibirsk, Russia</i></p>
10	<p>Yangiyeva Sohiba Baxtiyorovna. Investigation of complexes of some derivatives of gossypol with divalent metal ions</p>
11	<p>Dik D.V., Gudyma T.S., Krutskiy Yu.L. Study of Synthesis Processes of B4C-CRB2 Composite Powder Materials Using Nanofibrous Carbon</p> <p><i>Novosibirsk State Technical University, Novosibirsk, Russia</i></p>
12	<p>Duzelbayeva S.D.¹, Akhatova Z.S.², Kasenova B.A.², Konyspaev S.R.¹</p> <p>The composition of products of alkaline hydrolysis of wool fat and their application in the national economy</p> <p>¹ <i>al-Farabi Kazakh National University, Almaty, Kazakhstan</i></p> <p>² <i>Kazakh National Agrarian Research University, Almaty, Kazakhstan</i></p>
13	<p>Golovakhin V.V., Novgorodceva O.N., Bannov A.G. Influence of chemical treatment on the specific electrical capacitance of multi-walled carbon nanotubes for supercapacitors</p> <p><i>Novosibirsk State Technical University, Novosibirsk, Russia</i></p>
14	<p>Sartbayeva K. M. Study of the process of silanization of bentonite clay of the Taganskoye deposit</p>
15	<p>Parmanov A. B. Synthesis of vinyl esters of some aromatic carboxylic acids</p> <p><i>National University of Uzbekistan, Uzbekistan</i></p> <p><i>Chirchik work State Pedagogical Institute, Uzbekistan</i></p> <p><i>Kyzylorda University named after Korkyt Ata, Kazakhstan</i></p>
16	<p>Umrikhin M.V., Yatygin V.A., Aparnev A.I., Loginov A.V. Preparation of nanocomposites based on zinc stannates</p> <p>1 <i>Новосибирский государственный технический университет; Новосибирск, Россия</i></p> <p>2 <i>Институт химии твердого тела и механохимии СО РАН, г. Новосибирск, Россия,</i></p>
17	<p>Kolbin V.A., Novgorodtseva O.N. Chemical nickel plating of aluminum plates with the use of electrical surface</p> <p>¹ <i>Novosibirsk State Technical University, Novosibirsk, Russia</i></p> <p>² <i>Institute of Solid State Chemistry and Mechanochemistry SB of RAS, Novosibirsk,</i></p>

	<i>Russia</i>
18	Kovalev Ye.P., Shalygin A.S., Martyanov O.N. Ethylene Sorption by Modified [C6Mim][Hal] Ionic Liquids Studied by In Situ ATR-IR Spectroscopy <i>Federal State Budgetary Institution of Science "Federal Research Center" Institute of Catalysis. G.K. Boreskov of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia</i>
19	Timakova Ye.V. ^{1,2} , Timakova T.Ye. ¹ , Afonina L.I. ^{1,2} Fine-crystalline powders of bismuth (III) oxalates as precursors for obtaining β-Bi₂O₃ ¹ <i>Novosibirsk State Technical University, Novosibirsk, Russia</i> ² <i>Institute of Solid State Chemistry and Mechanochemistry SB of RAS, Novosibirsk, Russia</i>

Section 2. Catalysis and processes

1	Kurmashov P.B. ¹ , Bannov A.G. ¹ , Golovakhin V.V. ¹ , Gudyma T.S. ¹ , Popov M.V. ^{1,2,3} Hexamethylenetetramine and glycine in the technology of catalyst preparation by solution combustion ¹ <i>Novosibirsk State Technical University, Novosibirsk, Russia</i> ² <i>N.D. Zelensky Institute of Organic Chemistry, Moscow, Russia</i> ³ <i>D.I. Mendeleev Russian University of Chemical Technology, Moscow, Russia</i>
2	Ordabayeva A.T., Muldakhmetov Z.M., Gazaliev A.M., Meiramov M.G., Shaikenova Zh.S. Catalytic pyrolysis of coal tar LLP "Sary-Arka Speckoks" <i>LLP "Institute of Organic Synthesis and Coal Chemistry of the Republic of Kazakhstan", Karaganda, Kazakhstan</i>
3	Auezkhan S.A., Smagulova N.T. Optimization of the coal tar hydrogenation process <i>al-Farabi Kazakh National University, Almaty, Kazakhstan</i>
4	Rudenko P.V. ¹ , Popov A.A. ² , Bauman Yu.I. ^{3,4} , Mishakov I.V. ^{3,4} , Turlo Ye.M. ¹ , Shubin Yu.V. ^{2,3} Vedyagin A.A. ³ Mechanochemical synthesis of cobalt-copper oxide catalysts for the decomposition of hydrocarbons ¹ <i>Novosibirsk State Technical University, Novosibirsk, Russia</i> ² <i>A.V. Nikolaev Institute of Inorganic Chemistry, SB of RAS, Novosibirsk, Russia</i> ³ <i>G.K. Boreskova Institute of Catalysis SB of RAS, Novosibirsk, Russia</i> ⁴ <i>NTI Center "Hydrogen as the basis of a low-carbon economy", G.K. Boreskova Institute of Catalysis, SB of RAS</i>
5	Shestakov A.A., Lazarenko N.S., Lapekin N.I. Microhardness of polyester compositions filled with multi-walled carbon nanotubes <i>Novosibirsk State Technical University, Novosibirsk, Russia</i>
6	Shakiyeva T.V. ¹ , Sassykova L.R. ¹ , Khamlenko A.A. ¹ , Dzhatkambayeva U.N. ¹ , Sassykova A.R. ² , Batyrbayeva A.A. ¹ , Zhaxibayeva Zh.M. ³ , Ismailova A.G. ¹ , Sendilvelan S. ⁴ Influence of process parameters on the patterns of catalytic cracking of fuel oil M-100. <i>1Al-Farabi Kazakh National University, 2Almaty College of Economics and Law, 3Abai Kazakh National Pedagogical University, 4Department of Mechanical Engineering, Dr.M.G.R. Educational and Research Institute, University, Chennai-600095, Tamilnadu, India.</i>
7	Bessonova H. V., Reshetnikov S.I. Modeling of diesel fuel hydrodesulfurization process taking into account catalyst deactivation <i>G.K. Boreskova Institute of Catalysis, SB of RAS, Novosibirsk, Russia</i>
8	Khamidov B.N., Ismoilov M.Yu., Abduzhalilov A.S. Obtaining light naphthenic acids from diesel alkaline waste

	<i>Fergana State University, Fergana, Republic of Uzbekistan</i>
9	Khamidov B.N., Ismoilov M.Yu., Sobirov D. A. Analysis of the chemical composition and structure of naphthenic acids in the oils of Uzbekistan <i>Fergana State University, Fergana, Republic of Uzbekistan</i>
10	Khamidov B.N., Ismoilov M.Yu., Aliyev B.M. Adsorbents for resins and petroleum acids <i>Fergana State University, Fergana, Republic of Uzbekistan</i>
11	Kairbekov Zh.K, Zheldybayeva I.M., Kairbekov A.Zh., Abilmazhinova D.Z., Suimbayeva S.M. Study of the antioxidant properties of humic acids of therapeutic mud (peloids) by the amperometric method <i>1 al-Farabi Kazakh National University, Almaty, Kazakhstan</i> <i>2 Kazakh National Female Pedagogical University, Almaty, Kazakhstan</i>
12	Abzhamalova Zh.A. Effect of gas dissolved in oil on viscoelastic properties
13	Tyanakh S., Musina G., Bulash Zh, Abdrakhmanov N.N., Seitzhan R.S. Kinetics of thermal degradation of a low-temperature resin by a catalytic additive with deposited metals <i>¹ E.A. Buketov Karaganda University, Karaganda, Republic of Kazakhstan</i> <i>² Karaganda Polytechnic University, Karaganda, Republic of Kazakhstan</i>
14	Nurlan A.¹, Konuspaev S.R¹., Shaimardan M²., Abildin T.S¹. Hydrogenation of benzene in gasoline on rh/siral-40 catalyst <i>¹ al-Farabi Kazakh National University, Almaty</i> <i>² L. N. Gumilyov Eurasian National University, Nur-Sultan</i>
15	Baizhunussov K. M., Makhambetov A. Y., Akmetkaliev R.B. Use of oil-in-water emulsions of reservoir oils to isolate water inflow to production wells <i>Al-Farabi Kazakh National University, Almaty, Kazakhstan</i>
16	Kairbekov Zh., Kishibayev K.O., Yermoldina E.T., Zheldybayeva I.M., Suimbayeva S.M. Supported Palladium Catalysts for the Hydrogenation of Nitro- and Acetylene Compounds Modified with Potassium Humate <i>1 al-Farabi Kazakh National University, Almaty</i> <i>2 Kazakh National Female Pedagogical University, Almaty, Kazakhstan</i>
17	Zhylkybek M., Baizhumanova T.S. Production of hydrogen by catalytic conversion of formic acid <i>1 D.V. Sokolsky Institute of Fuel, Catalysis and Electrochemistry, Almaty, Kazakhstan</i> <i>2 al-Farabi Kazakh National University, Almaty</i>
18	Shynkenov A. Zh., Azilkhanov N. D., Igembayev I. B. Investigation of methods for improving enhanced oil recovery with the use of surfactants in the development of oil fields <i>Al-Farabi Kazakh National University, Almaty, Kazakhstan</i>