

**List of reports
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Kovtunov Kirill	Robust in situ investigation of heterogeneous hydrogenation mechanisms with parahydrogen	Kovtunov K.	International Tomography Center SB RAS	invited oral
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3. Kinetics and mechanisms of catalyzed processes

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Troitskii Sergei Yu.	Low-temperature sintering of the active components of Pd/C catalysts.	Troitskii S.Yu., Zavarukhin S.G.	Boreskov Institute of Catalysis SB RAS	Poster
Yushchenko Dmitriy Yu.	Oxidation of N-(phosphonomethyl)iminodiacetic acid with hydrogen peroxide in phase-transfer conditions	Yushchenko D.Yu., Pai Z.P., Khlebnikova T.B.	Boreskov Institute of Catalysis SB RAS	Poster
Gorokhova Ekaterina	Catalytic transformations of 1-heptene and n-heptane over selected zeolites at 170–260°C	Gorokhova E., Kulchakovskaya E., Asalieva E., Sineva L., Mordkovich V.	Technological institute for superhard and novel carbon materials	Poster
Nedorezova Polina Mikhailovna	Polymerization of propylene on metal-complex catalysts in the presence of carbon nanoparticles	Palaznik O.M., Nedorezova P.M., Polshikov S.V., Klyamkina A.N.	Semenov Institute of Chemical Physics RAS	Poster
Shorayeva Kamshat Abitkhanovna	Polyoxide catalysts based on pillared clays for the oxidative dehydrogenation of ethane to ethylene	Shorayeva K.A., Massalimova B.K., Sadykov V.A., Nauryzkulova S.M., Altynbekova D.T., Jetpisbayeva G.D.	Taraz state university named after M.Kh.Dulaty	Poster
Vasileva Elina	Features of the oxidation of light saturated hydrocarbons under heterogeneous catalysis	Vasileva E., Mukhamedzyanov R., Sitmuratov T., Petukhov A.A., Akhmedyanova R.	Kazan National Research Technological University	Poster
Vovdenko Mikhail Konstantinovich	Isopropylbenzene oxidation kinetic model	Vovdenko M.K., Vovdenko A., Koledina K.F., Gubaydullin I.M.	Institute of Petrochemistry and Catalysis RAS	Poster
Zakharenko Valery	PHOTOCATALYSIS OF OXIDATION REACTIONS AS NATURAL PHENOMENON	Zakharenko V., Daibova E.	Boreskov Institute of Catalysis SB RAS	Poster
Mukhamed'yarova Aliya	Influence of a hydrothermal treatment of the amorphous aluminum compounds on the properties of the obtained aluminum hydroxides	Mukhamed'yarova A., Boretskaya A.V., Egorova S., Lamberov A., Ermolaev A.A.	Kazan Federal University	Poster
Badyrova Nataliia	Hydrogenation of dimethyl itaconate over rhodium nanoparticles, modified by optically active quarternary ammonium salts	Badyrova N., Nindakova L.O.	Irkutsk National Research Technical University	Virtual
Bykov Mikhail Valerievich	On the role of nanoscale particles formed on the basis of nickel (II) complexes and aluminum alkyl halides in catalysis of propene oligomerization	Bykov M.V., Suslov D.S., Pakhomova M.V., Tkach V.S., Schmidt A.F.	Irkutsk State University	Virtual

Bykova Liubov	Study of the properties of bimetallic polymer catalysts	Bykova L., Vitkovskaya R.F., Rumynskaya I.G., Novoselov N.P.	St. Petersburg State of Industrial Technology and Design	Virtual
Cherepanov Igor	Pyrrole ring formation mechanisms in carbohydrate – aryl amine condensations	Cherepanov I.	Udmurt State University	Virtual
Chernyshev Denis	The dehydration mechanism of methyl lactate over phosphates	Chernyshev D., Dubrovsky V., Varlamova E., Suchkov Y., Kozlovskiy R.	D. Mendeleev University of Chemical Technology of Russia	Virtual
Grishin Maksim Vyacheslavovich	Interaction of hydrogen, carbon monoxide and oxygen with films consisting of gold and copper nanoparticles	Grishin M.V., Gatin A.K., Dohlikova N.V., Kulak A.I., Sarvadii S.Y., Shub B.R.	Semenov Institute of Chemical Physics RAS	Virtual
Islamova Gulshat Ильнуровна	Kinetic model of sonochemiluminescence process of aqueous solution of ruthenium tris-bipyridyl chloride (II)	Islamova G.И., Koledina K.F., Gubaydullin I.M.	Institute of Petrochemistry and Catalysis RAS	Virtual
Islamova Gulshat Ильнуровна	Models of the reaction unit of catalytic cracking	Islamova G.И., Губайдуллин И.М.	Institute of Petrochemistry and Catalysis RAS	Virtual
Strakhov Vasilii Olegovich	Catalytic transfer hydrogenation of acetophenone over rhodium nanoparticles	Goryunova V.D., Strakhov V.O., Nindakova L.O.	Irkutsk National Research Technical University	Virtual
Vyatkin Yuris Леонидович	Mechanizm of chemical evaporation of a platinum catalyst in an ammonia oxidation reaction	Vyatkin Y.Л., Balaev A.V., Savenkov A.S., Vanchurin V.I.	D. Mendeleev University of Chemical Technology of Russia	Virtual
Zabalov Maxim Vyacheslavovich	Kinetics and Quantum Chemical Study of Mechanism of TBD Catalyzed Aminolysis of Cyclocarbonates in DMSO	Zabalov M.V., Levina M.A., Tiger R.P.	Semenov Institute of Chemical Physics RAS	Virtual

4. Advanced catalyst systems addressing current challenges: energy, materials, sustainability

Skorb Ekaterina		Skorb E.	ITMO University	invited oral
Badmaev Sukhe	Catalytic chemistry of dimethoxymethane: carbonylation, steam reforming and partial oxidation	Badmaev S., Pechenkin A., Paukshtis E., Belyaev V., Sobyenin V.	Boreskov Institute of Catalysis SB RAS	Oral presentation
Demidova Yulia Sergeevna	Hydrogenation of monoterpenoids catalyzed by gold and platinum catalysts	Demidova Y.S., Suslov E.V., Mozhajcev E.S., Simakova O.A., Volcho K.P., Salakhutdinov N.F., Simakova I., Murzin D.Y.	Boreskov Institute of Catalysis SB RAS	Oral presentation
Gongxuan Lu	The inhibition of hydrogen and oxygen recombination by halogen atoms and its effect on over-all water splitting over Pt-TiO ₂	Gongxuan L.	Lanzhou Institute of Chemical Physics	Oral presentation
Kozlova Ekaterina	Photocatalytic CO ₂ reduction over Cd _{1-x} Zn _x S-based photocatalysts: effect of the phase composition on the reaction rate and product distribution	Kozlova E., Lyulyukin M., Markovskaya D., Kozlov D.V.	Boreskov Institute of Catalysis SB RAS	Oral presentation
Lokteva Ekaterina S.	The effect of template nature and the composition of double and triple oxide catalysts based on CeO ₂ in CO oxidation	Lokteva E.S., Kaplin I.Y., Golubina E., Maslakov K.I., Zhilyaev K., Shishova V.V., Tikhonov A.V.	Lomonosov Moscow State University	Oral presentation
Maniecki Tomasz Przemyslaw	Photocatalytic Reduction of CO ₂ over Me (Pt, Ru, Pd, Au)/TiO ₂ catalysts	Maniecki T.P., Shtyka O., Ciesielski R., Kedziora A., Maniukiewicz W., Zakrzewski M., Dubkov S., Gromov D.	Technical University of Lodz	Oral presentation
Pérez-Hernández Raúl	CARBON DIOXIDE METHANATION OVER Ni CATALYSTS SUPPORTED ON TiO ₂ NANOTUBES	Pérez-Hernández R.	Instituto Nacional de Investigaciones Nucleares	Oral presentation
Pimerzin Aleksey A.	The features of the decalin dehydrogenation over platinum catalysts supported over various silica-alumina carriers	Pimerzin A.A., Martynenko E.A., Savinov A.A., Verevkin S.P., Pimerzin A.A.	Samara State Technical University	Oral presentation

Rempel Andrey	Organic molecules oxidation on hybrid titania – cadmium sulfide photocatalyst active under visible light	Rempel A., Valeeva A., Kozlova E., Selishchev D.S., Weinstein I.A., Dorosheva I.B., Kusnetsova Y.V.	Institute of metallurgy UrB RAS	Oral presentation
Vovk Evgeny Ivanovich	Why Ni/silicalite-1 catalyst shows high stability and reactivity in dry reforming of methane?	Vovk E.I., Zhou X., Liu Z., Guan C., Yang Y., Kong W., Si R.	ShanghaiTech University	Oral presentation
Ciesielski Radoslaw	Mechanistic studies of methanol synthesis reaction over Cu and Pd-Cu catalysts	Ciesielski R., Zakrzewski M., Kubicki J., Maniukiewicz W., Kedziora A., Maniecki T.	Technical University of Lodz	Oral presentation
Okhlopkova Lyudmila Borisovna	Titania-zirconia coatings of a capillary microreactor for the selective hydrogenation of 2-methyl-3-butyn-2-ol using a PdZn/TixZr1-xO2 catalyst: Stability, effect of the catalyst's activation conditions and a kinetic study	Okhlopkova L.B., Kerzhentsev M.A., Ismagilov Z.R.	Boreskov Institute of Catalysis SB RAS	Oral presentation
Kharlamova Tamara Sergeevna	The role of structural, redox and acid-base properties of monolayer MgVOx/Al2O3 catalysts in oxidative dehydrogenation of propane	Kharlamova T.S., Timofeev K., Vodyankina O.	Tomsk State University	Oral presentation
Taran Oxana Pavlovna	Formic acid production via methane peroxide oxidation over oxalic acid activated Fe-MFI catalysts. Mechanistic insights	Taran O.P., Yashnik S.A., Boltenkov V., Parkhomchuk E.V., Sashkina K.A., Babushkin D.E., Parmon V.N.	Institute of Chemistry and Chemical Technology of SB RAS, FRS KSC SB RAS	Oral presentation
Koskin Anton P.	Novel lanthanide-grafted catalytic systems for alcohols acylation and carboxylic esters hydrolysis	Koskin A.P., Vedyagin A.A.	Boreskov Institute of Catalysis SB RAS	Poster
Kozhevnikova Natalia	Mechanisms of Catalytic Degradation of Chloroaromatic Compounds in Presence of CdS/TiO2 Composite		Institute of Solid State Chemistry of UrB RAS	Poster
Kuriganova Alexandra	New Electrochemical Approach to Synthesis of Pd/C Catalysts and Its Electrochemical Performance	Kuriganova A., Faddeev N., Leontyev I., Smirnova N.	Platov South-Russian State Polytechnic University (NPI)	Poster
Morozova Olga	Mechanochemical synthesis – alternative effective technique for the composite catalysts preparation	Morozova O., Firsova A., Tyulenin Y., Vorobieva G., Leonov A.	Semenov Institute of Chemical Physics RAS	Poster
Mukhin Igor	Catalytic materials based on hydrotalcite-like hydroxides of Al, Mg, Ni, Co for partial oxidation and dry reforming of methane to synthesis gas.	Dedov A., Mukhin I., Loktev A., Danilov V., Krasnobaeva O., Nosova T., Baranchikov A., Moiseev I.	Gubkin Russian State University of oil and gas	Poster
Shefer Kristina Ivanovna	Pt and Rh catalysts supported on alumina and structured supports for the reaction of partial oxidation of hydrocarbons	Shefer K.I., Kovtunova L., Rogozhnikov V., Chetyrin I., Suprun E.A., Stonkus O.A., Larina T.V.	Boreskov Institute of Catalysis SB RAS	Poster
Sulman Esther	Ru-Fe3O4-SiO2 catalyst for polysaccharide conversion	Sulman E., Manaenkov O., Kislitsa O., Ratkevich E., Matveeva V., Sulman M.	Tver State Technical University	Poster

Kuznetsov Boris Nikolaevitch	Influence of Borate-Containing Alumina Catalysts on the Conversion of Ethanol-Lignin from Pine Wood in a Supercritical Ethanol	Beregovtsova N.G.1, Baryshnikov S.V.1, Miroshnikova A.V.1, Sharypov V.I.1, Lavrenov A.V.2, Kuznetsov B.N.1	Institute of Chemistry and Chemical Technology of SB RAS, FRS KSC SB RAS	Poster
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Dolganov Alexandr	2,4,6-triphenylpyridine as "metal-free" electrocatalyst of hydrogen evolution reaction (HER)	Dolganov A., Tanaseychuk B.S., Chernyaeva O.Y., Selivanova Y.M., Yudina A.Y., Grigorian K.A., Yurova V.Y.	National Research Ogarev Mordovia State University	Poster
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Gogin Leonid	One-pot processes of quinones syntheses in the presence of heteropoly acid solutions as bifunctional catalysts	Gogin L., Zhizhina E.	Boreskov Institute of Catalysis SB RAS	Poster
Il'in Alexander Alexandrovich	Synthesis and regeneration of an iron-molybdenum catalyst for partial oxidation of methanol to formaldehyde	Il'in A.A., Rumyantsev R.N., Il'in A.P.	Ivanovo State University of Chemistry and Technology	Poster
Ivanova Yulia	Oxidative coupling of methane over different Sr ₂ TiO ₄ catalysts	Ivanova Y., Sutormina E., Nartova A., Isupova L.	Boreskov Institute of Catalysis SB RAS	Poster
Ivanova Yulia	The effect of Sr substitution in bulk and supported La _{1-x} Sr _x FeO ₃ perovskites on the catalytic activity in NH ₃ oxidation and N ₂ O decomposition reactions.	Sutormina E., Isupova L., Rogov V., Ivanova Y., Vovk E.I.	Boreskov Institute of Catalysis SB RAS	Poster
Jiratova Kveta	Precipitated K-promoted Co-Mn-Al mixed oxides for direct NO decomposition: preparation and properties	Jiratova K., Pacultová K., Balabánová J., Karásková K., Klegová A., Bílková T., Jandová V., Koštejn M., Obalová L.	Institute of Chemical Process Fundamentals of CAS	Poster

Kabachkov Evgeny	Synthesis and properties of catalyst based on titanium dioxide modified by nanomaterials and catalytic metals (Pt, Pd) used in air purifiers	Kabachkov E., balikhin i., vershinin n., efimov o., kurkin e.	Institute of Problems of Chemical Physics RAS	Poster
Kaplin Igor Yurievich	Effect of the nature of manganese species in Mn-Ce-Zr mixed oxide systems on catalytic properties in CO oxidation	Kaplin I.Y., Lokteva E.S., Golubina E.V., Maslakov K.I., Shishova V.V., Fionov A.V.	Lomonosov Moscow State University	Poster
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Koklyuhin Aleksandr Sergeevich	The influence of the nature of the support on the inhibitory effect of oxygen-containing compounds in the process of co-hydrotreatment of model compounds of petroleum and renewable raw materials	Koklyuhin A.C., Ishutenko D., Mozhaev A., Pimerzin A., Nikulshin P.	Samara State Technical University	Poster
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Matus Ekaterina	Effect of composition of Ce _{1-x} Ni _x O _y catalysts on their activity and stability in steam/CO ₂ reforming of methane	Matus E., Shlyakhtina A., Sukhova O., Ismagilov I., Kerzhentsev M.A., Ismagilov Z.R.	Boreskov Institute of Catalysis SB RAS	Poster
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Nazarkina Yulia Valeryevna	Effect of anodization and annealing regimes on the photocatalytic properties of nanostructured tungsten oxide layers	Nazarkina Y.V., Rusakov V.A., Dronov A.	National Research University of Electronic Technology	Poster
Pacultová Kateřina	Effect of Cs content in Co ₃ O ₄ deposited on the ceramic foam support catalyst for N ₂ O decomposition	Klegová A., Kiška T., Pacultová K., Karásková K., Obalová L.	VSB - Technical University of Ostrava	Poster

Rostovshchikova Tatiana Nikolaevna	Low percent size-selected Pd and Pt catalysts prepared by laser electrodispersion in the CO oxidation	Golubina E., Shilina M., Lokteva E.S., Maslakov K.I., Gurevich S.A., Kozhevnikov V.M., Yavsin D.A., Rostovshchikova T.N.	Lomonosov Moscow State University	Poster
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Shesterkina Anastasiya	Novel Fe-containing catalysts for the selective hydrogenation of aldehydes and nitro-compounds	Shesterkina A., Strekalova A., Kirichenko O., Redina E.A., Kustov L.M.	N.D. Zelinsky Institute of Organic Chemistry RAS	Poster
Shikina Nadezhda Vasilevna	Formation mechanism of active phases based on Mn, Mn-La, Mn-Ce oxides under solution combustion synthesis	Shikina N.V., Gavrilova A.A., Yashnik S., Litvak G.S., Khairulin S.R., Ismagilov Z.R.	Boreskov Institute of Catalysis SB RAS	Poster
Shulyaka Svetlana E.	Prospective ferrite catalysts for flue gases cleaning from carbon monoxide	Shulyaka S.E., Sinitsin S., Petrov A.	D. Mendeleev University of Chemical Technology of Russia	Poster
Sinitsin Sergei Aleksandrovich	Energy-effective Fe-Mo catalyst for the process of oxidative dehydrogenation of methanol to formaldehyde	Sinitsin S.A., Polovinkin M., Gavrilov Y., Danilov E., Kostiuhenko V., Vodoleev V.	D. Mendeleev University of Chemical Technology of Russia	Poster
Smirnova Ekaterina Maksimovna	Benzene hydrogenation over ruthenium catalysts supported on aluminosilicate nanotubes	Smirnova E.M., Glotov A.P., Vinokurov V.A., Shukralieva A.S., Zasyalov G.O.	Gubkin Russian State University of oil and gas	Poster
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Stolyarova Elena Aleksandrovna	Influence of the silica sol addition to the catalytic activity of CoMoP hydrotreating catalysts	Stolyarova E.A., Klimov O.V., Saiko A.V., Gerasimov E.Y., Chetyrin I.A., Noskov A.S.	Boreskov Institute of Catalysis SB RAS	Poster
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Kost Veronika	SrO integration effect on structure and activity of perovskite-type oxides GdFeO ₃ for DRM and FTS	Sheshko T., Sharaeva A., Kost V., Kryuchkova T.A., Chislova I.V., Zvereva I., Yafarova L.	Peoples' Friendship University of Russia (RUDN University)	Poster

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Ergazieva Gaukhar	Oxide catalysts for production of synthesis gas and its conversion to liquid hydrocarbons	Dossumov K., Ergazieva G., Mironenko A.V., Ermagambet B.T., Telbayeva M.M., Myltykbayeva L.K., Kassenova Z.M.	Institute of Combustion Problems	Virtual
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Skripov Nikita Igorevich	The reasons for promoting action of phosphorus on the selectivity of palladium catalysts for the synthesis of hydrogen peroxide by the anthraquinone method	Sterenjuk T., Belykh L., Skripov N.I., Sanzhieva S., Gvozdovskaia K., Schmidt F.	Irkutsk State University	Virtual
Suslov Dmitry Sergeevich	Cationic Acetylacetonate Palladium Complexes/Boron Trifluoride Etherate Catalyst Systems for Polymerization of Norbornene Derivatives and Phenylacetylene	Suslov D.S., Bykov M.V., Pakhomova M.V., Ushakov I.A., Tkach V.S.	Irkutsk State University	Virtual
Vanchourin Victor I.	Characterization of Copper-Containing Catalysts in Dehydrogenation of Cyclohexanol into Cyclohexanone	Vanchourin V.I., Karachenko O.I., Petrov A.Yu., Vyatkin Y.L.	D. Mendeleev University of Chemical Technology of Russia	Virtual
Bulanova Andzhela Vladimirovna	Hydrogenation of aromatic hydrocarbons on mesoporous silica doped with Dy and modified with Ni and Cu	Bulanova A.V., Shafigulin R.V., Filippova E.O., Shmelev A.A., Tokranov A.A.	Samara University	Virtual

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Dmitrieva Maria	Kinetic features of mediator bioelectrocatalytic oxidation of glucose by «crude» bacterial extracts	Dmitrieva M., Zolotukhina E., Gerasimova E., Dobrovolskiy Y.	Institute of Problems of Chemical Physics RAS	Oral presentation
Kovalevskiy Nikita Sergeevich	Synergetic effect of polychromatic irradiation in the reactions of photocatalytic oxidation on the surface of N-doped titanium dioxide	Kovalevskiy N.S., Selishchev D.S., Svintitskiy D.A., Selishcheva S.A., Kozlov D.V.	Boreskov Institute of Catalysis SB RAS	Oral presentation
Selivanova Aleksandra	In situ study of methanol adsorption on Pt(111) and Pd(111) at low temperature by polarization modulation infrared reflection absorption spectroscopy	Selivanova A., Tsapina A., Medvedeva Y., Saraev A.A., Kaichev V., Bukhtiyarov V.I.	Boreskov Institute of Catalysis SB RAS	Oral presentation
Skorynina Alina	Theoretical investigation of active metal sites in Pt- and Pd-functionalized metal-organic frameworks	Skorynina A., Olsbye U., Lillerud K.P., Lamberti C., Soldatov A., Bugaev A.	Southern Federal University	Oral presentation
Stolyarova Elena Aleksandrovna	NiMoP catalyst in the hydroprocessing of mixture of straight-run diesel fuel and secondary light fractions obtained by catalytic steam cracking of vacuum residue	Stolyarova E.A., Saiko A.V., Zaikina O.O., Sosnin G.A., Yeletsky P.M., Klimov O.V., Yakovlev V.A., Noskov A.S.	Boreskov Institute of Catalysis SB RAS	Oral presentation
Tsapina Anna	In situ NAP-XPS study of Cu-Fe-Al-based nanocomposite catalysts of CO oxidation	Tsapina A., Selivanova A., Saraev A.A., Fedorov A., Vorokhta M., Smid B., Kaichev V.	Boreskov Institute of Catalysis SB RAS	Oral presentation
Zakrzewski Mateusz Łukasz	Determination of the type and reactivity of carbon deposits in the mixed reforming of methane	Zakrzewski M.Ł., Shtyka O., Ciesielski R., Kędziora A., Maniecki T.	Technical University of Lodz	Oral presentation
Salaev Mikhail A.	A theoretical study of the effects of promoters of silver catalysts for ethylene epoxidation	Salaev M.A., Salaeva A.A., Vodyankina O.	Tomsk State University	Oral presentation
Nuguid Rob Jeremiah Gotengco	Mechanistic Insights into the Selective Catalytic Reduction of NO Revealed by Modulated-Excitation Raman Spectroscopy	Nuguid R.G., Nachtegaal M., Ferri D., Kröcher O.	École polytechnique fédérale de Lausanne	Oral presentation
Zubkevich Sergey Vadimovich	The formation of precatalysts for selective ethylene dimerization in system NiBr ₂ [bis(3,5-dimethylpyrazol-1-yl)methane]/PPh ₃	Zubkevich S.V., Tuskaev V.A., Gagieva S.C., Pavlov A.A., Bulychev B.M.	Lomonosov Moscow State University	Oral presentation
Kurenkova Anna Yurevna	Photocatalytic hydrogen evolution from glucose aqueous solutions under visible light irradiation	Kurenkova A.Y., Markovskaya D., Kozlova E.	Boreskov Institute of Catalysis SB RAS	Oral presentation
Ayala Ayala Maria Teresa	Structural, microstructural and optical characterization of Bi ₂ O ₃ -Cu ₂ O heterojunctions for photocatalytic applications	Ayala Ayala M.T., Bahnemann D., Munoz Saldana J.	Cinvestav	Oral presentation
Nikitina Nadezhda Anatol'evna	DFT simulation of the molecular structure of VO _x /TiO ₂ catalysts	Nikitina N.A., Pichugina D.A., Kuzmenko N.E.	Lomonosov Moscow State University	Oral presentation
Glyzdova Daria Vldimirovna	Study of the zinc addition influence on the Pd/Sibunit catalyst of selective acetylene hydrogenation	Glyzdova D.V., Afonassenko T.N., Domanina T.P., Leont'eva N.N., Prosvirin I.P., Bukhtiyarov A.V., Shlyapin D.A.	Center of New Chemical Technologies BIC	Oral presentation
Chetyrin Igor Anatolievich	In situ XPS and MS study of methane oxidation over bimetallic Pt-Pd/Al ₂ O ₃ catalysts.	Chetyrin I.A., Bukhtiyarov A.V., Просвирин И.П., Бухтияров В.И.	Boreskov Institute of Catalysis SB RAS	Oral presentation