IV Scientific-Technological Symposium
CATALYTIC HYDROPROCESSING IN OIL REFINING
(STS HydroCat)

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Symposium Organizers

- *Boreskov Institute of Catalysis SB RAS (Novosibirsk, Russia)*
- *Chemical Process and Energy Resources Institute – CPERI (Thessaloniki, Greece)*
- *PJSC Gazprom Neft (St. Petersburg, Russia)*

LIST OF ACCEPTED PRESENTATIONS

Plenary Lectures

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Prof. Guido Busca
CATALYTIC MATERIALS BASED ON SILICA AND ALUMINA
The University of Genova, Italy

PL-2
Prof. Wilhelm Schwieger
HIERARCHICAL ZEOLITES IN PROCESSING OF HYDROCARBONS
Friedrich–Alexander University Erlangen–Nürnberg, Germany

PL-3

PL-4
Prof. Angeliki Lemonidou
INTENSIFICATION OF STEAM REFORMING FOR HYDROGEN PRODUCTION
Aristotle University of Thessaloniki, Greece

PL-5
Dr. Mohan S. Rana
RECENT ADVANCES IN RESIDUE HYDROPROCESSING
Kuwait Institute for Scientific Research, Safat, Kuwait

Keynote Lectures

KL-1
Dr. Stella Bezergianni
CATALYTIC HYDROPROCESSING: AN EFFECTIVE MODE FOR DIRECT FUELS DECARBONIZATION
Centre for Research & Technology Hellas / CERTH
Chemical Process & Energy Resources Institute / CPERI, Greece

KL-2
Prof. Maria Filipa Ribeiro
FROM POWDER Pt CATALYSTS TO SHAPED NiMo CATALYSTS: A TALE ABOUT HYDROCRACKING COMPLEXITY
Instituto Superior Técnico, Lisbon, Portugal

KL-3
Prof. Joris Thybaut
SIMULATING COMPLEX MIXTURES CONVERSION FROM FIRST PRINCIPLES
Ghent University, Ghent, Belgium

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KL-4
Dr. Vladimir Danilevich
ALUMINUM OXIDES AS SUPPORTS FOR HYDROTREATING CATALYSTS
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

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Nadeina K.A.[1], Danilevich V.V.[1], Kazakov M.O.[1], Romanova T.S.[1], Gabrienko A.A.[1], Pakharukova V.A.[1], Danilova I.G.[1], Nikolaeva O.A.[1], Gerasimov E.Yu.[1], Kondrashev D.O.[2], Kleimenov A.V.[2], Klimov O.V.[1], Noskov A.S.[1]

INFLUENCE OF Si DOPING TO HYDROTREATING CATALYSTS OF FCC FEED PRETREATMENT

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[2]PJSC Gazprom neft, Saint Petersburg, Russia

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Escobar J.[1], Gutiérrez A.[1], Ramírez J.[2], Cuevas R.[2], Ángeles C.[1], Barrera M.C.[3]

THIOPHENE HDS ON La-MODIFIED CoMo/AL_2O_3 SULFIDED CATALYSTS. EFFECT OF RARE-EARTH CONTENT

[1]Instituto Mexicano del Petróleo, México City, México
[2]UNICAT, México City, México
[3]F.C.Q.-CIRES, Univ. Veracruzana, Coatzacoalcos, México

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Shkurenok V.A.[1], Yablokova S.S.[1], Smolikov M.D.[1], Kir'yanov D.I.[1], Belyi A.S.[1], Kondrashev D.O.[2], Kleimenov A.V.[2]

NEW DIRECTION IN THE HYDROPROCESSING OF GASOLINE FRACTIONS: INTEGRATION OF C_5-C_6 AND C_7-PARAFFIN HYDROCARBONS ISOMERIZATION PROCESSES

[1]Center of New Chemical Technologies BIC, Omsk, Russia
[2]PJSC Gazprom neft, Saint Petersburg, Russia

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MESOPOROUS ALUMINOSILICATES BASED ON NATURAL CLAY NANOTUBES FOR HYDROPROCESSING: SYNTHESIS, PROPERTIES, APPLICATION

[1]Gubkin University, Moscow, Russia
[2]Institute for Micromanufacturing, Louisiana Tech University, Ruston, USA

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Glišić S.B.[1], Prokić-Vidojević D.[2], Orlović A.M.[1]

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[1]University of Belgrade, Belgrade, Serbia
[2]Military Technical Institute (VTI), Belgrade, Serbia

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Yashnik S.A.[1], Ismailov E.G.[2], Ismagilov Z.R.[1]

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[1]Boreskov Institute of Catalysis, Novosibirsk, Russia
[2]Institute of Petrochemical Processes of ANAS, Baku, Azerbaijan

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[1]Université de Poitiers, Poitiers, France
[2]IFP Energies nouvelles, Solaize, France
[3]Université Libanaise, Beirut, Liban

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Boreskov Institute of Catalysis, Novosibirsk, Russia

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[1]IFP Energies nouvelles, Solaize, France
[2]Synchrotron SOLEIL L'orme des Merisiers, Gif-sur-Yvette Cedex, France

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[2]PJSC Gazprom neft, St Petersburg, Russia

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[1]Boreskov Institute of Catalysis, Novosibirsk, Russia
[2]Novosibirsk State University, Novosibirsk, Russia
[3]PJSC «Gazprom neft», Saint Petersburg, Russia

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Vela Diaz F., Trueba D., Palos R., Arandes J.M., Gutiérrez A.

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[2]Center for New Chemical Technologies BIC, Omsk, Russia
[3]PJSC Gazprom neft, Saint Petersburg, Russia

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Natural Resources Canada, CanmetENERGY Devon, Canada

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Boreskov Institute of Catalysis, Novosibirsk, Russia

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Ai X.[1], Chi X.[1], Wang D.[1], Tian Z.[1], Shi Q.[2], Wang J.[2]

DETERMINATION OF VARIOUS CHEMICAL STRUCTURES IN BASE OIL USING MULTIDIMENSIONAL NMR SPECTROSCOPY

[1]Dalian National Laboratory for Clean Energy, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China
[2]School of Biological Engineering, Dalian Polytechnic University, Dalian, China

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Saiko A.V.[1], Potapenko O.V.[2], Nadeina K.A.[1], Porotikova O.V.[2], Sorokina T.P.[2], Doronin V.P.[2], Kazakov M.O.[1], Klimov O.V.[1], Kondrashev D.O.[3], Kleimenov A.V.[3], Noskov A.S.[1]

INFLUENCE OF NITROGEN CONTAINING COMPOUNDS OF DIFFERENT NATURE IN HYDROTREATED VGO ON PRODUCT COMPOSITION OF FCC PROCESS FOR LIGHT OLEFINS PRODUCTION

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[3]PJSC Gazprom neft, Saint Petersburg, Russia

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Pimerzin Al.A.[1,2], Glotov A.P.[2], Savinov A.A.[1]

LINEAR ALKANES HYDROISOMERIZATION OVER COMOS CATALYSTS SUPPORTED ON MODIFIED ALUMINOSILICATES

[1]Samara State Technical University, Samara, Russia
[2]Gubkin Russian State University of Oil and Gas, Moscow, Russia

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[2]School of Science & Technology, International Hellenic University (IHU), Thessaloniki, Greece

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Boreskov Institute of Catalysis, Novosibirsk, Russia

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[2]Univ. Lille, CNRS, Centrale Lille, ENSCL, Univ. Artois, UMR 8181 – UCCS – Unité de Catalyse et Chimie du Solide, F-59000 Lille, France
[3]Univ. Lille, CNRS, INRA, Centrale Lille, ENSCL, Univ. Artois, FR 2638 - IMEC - Institut Michel-Eugène Chevreul, F-59000 Lille, France
[4]All-Russia Research Institute of Oil Refining, Moscow, Russia
[5]Gubkin Russian State University of Oil and Gas, Moscow, Russia

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[1]J. Heyrovský Institute of Physical Chemistry, Academy of Sciences of the Czech Republic, Prague, Czech Republic
[2]Euro Support Manufacturing Czechia, Litvínov, Czech Republic

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Tregubenko V.Yu.[1], Vinichenko N.V.[1], Vagapova M.N.[2], Veretelnikov K.V.[3], Belyi A.S.[1,2]

NEW NAPHTHA-REFORMING Pt/Al_2O_3 CATALYSTS WITH Mo OR In

[1]Center of New Chemical Technologies BIC, Omsk, Russia
[2]Omsk State Technical University, Omsk, Russia
[3]Boreskov Institute of Catalysis, Novosibirsk, Russia

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[2]Departamento de Ingenieria Quimica Petrolera, Escuela Superior de Ingenieria Quimica e Industrias

Extractivas (ESIQIE), Instituto Politecnico Nacional, Zacatenco, Mexico City, Mexico

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Belopukhov E.A.[1], Smolikov M.D.[1], Kir'yanov D.I.[1], Shkurenok V.A.[1], Belyi A.S.[1], Kondrashev D.O.[2], Kleimenov A.V.[2]

REFORMING CATALYST FOR PRODUCING OF A LOW AROMATICS GASOLINE COMPONENT

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Ntagkonikou V.[1,2], Bezergianni S.[1], Karonis D.[2]

AN ALTERNATIVE APPROACH FOR LCO UPGRADING

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[2]National Technical University of Athens, Zografou Campus, Athens, Greece

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Cherednichenko A.G., Markova E.B., Akhmedova L.S., Kovtun S.O., Serov Ju.M.

INVESTIGATION OF CATALYTIC CRACKING PROCESSES OF PROPANE AND POLYPROPYLENE USING GADOLINIUM MOLYBDATES AND TUNGSTATES $Gd_2(MO_4)_3$ (M=Mo, W)

RUDN University (Peoples' Friendship University of Russia), Moscow, Russia

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Potapenko O.V.[1], Doronin V.P.[1], Sorokina T.P.[1], Iurtaeva A.S.[1], Plekhova K.S.[1], Lipin P.V.[1], Dmitriev K.I.[1], Porotikova O.V.[1], , Kondrashev D.O.[2], Kleimenov A.V.[2]

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[2]PJSC Gazprom neft, Saint Petersburg, Russia

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A.V. Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences, Moscow, Russia

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HIGHLY DISPERSED CATALYSTS FOR OIL HYDROPROCESSING IN SUPERCRITICAL CONDITIONS

[1]Tver State Technical University, Tver, Russia

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[3]*Omsk State Technical University, Omsk, Russia*
[4]*Boreskov Institute of Catalysis, Novosibirsk, Russia*

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[1]*Tomsk Polytechnic University, Tomsk, Russia*
[2]*LLP Pavlodar Petrochemical Plant, Pavlodar, Kazakhstan*
[3]*S. Toraighyrov Pavlodar State University, Pavlodar, Kazakhstan*

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THE DEVELOPMENT OF NICKEL MEMBRANES FOR HYDROGEN PURIFICATION
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STRUCTURED CATALYSTS FOR HYDROCARBONS AND OXYGENATES MIXTURES CONVERSION TO HYDROGEN-RICH GAS

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Dimitriadis A.[1], Bezergianni S.[1], Meletidis G.[1], Kokkalis A.[2], Doufas L.[2]

ANIMAL FATS: A PROSPEROUS FEED FOR 2ND GEN BIOFUELS PRODUCTION

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[2]Green Innovative Company (GRINCO), Larisa, Greece

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Boreskov Institute of Catalysis, Novosibirsk, Russia

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Center of New Chemical Technologies BIC, Omsk, Russia

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Manaenkov O.V., Kislitsa O.V., Ratkevich E.A., **Matveeva V.G.,** Sulman M.G., Sulman E.M.

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Tver Technical University, Tver, Russia

Poster Presentations

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Petroleum Research Center, Kuwait Institute for Scientific Research, Safat, Kuwait

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National Research Tomsk Polytechnic University, Tomsk, Russia

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HYDRODESULFURIZATION OF SULFUR-CONTAINING AROMATIC COMPOUNDS VIA WGSR OVER DISPERSED Ni–Mo SULFIDE CATALYSTS

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PP-4

Belinskaya N.S., Ivashkina E.N., Afanasyeva D.A., Krivtsova N.I., Vymyatnin E.K., Arkenova S.B., Kaliev T.A.

DEVELOPMENT OF THE FORMALIZED SCHEME OF CHEMICAL CONVERSIONS IN THE PROCESS OF VACUUM GAS OIL HYDROTREATING FOR THE PROCESS MODELLING

[1]National Research Tomsk Polytechnic University, Tomsk, Russia

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Ivanchina E., Ivashkina E., Lutsenko A., Nazarova G., Vymyatnin E., **Belinskaya N.S.**

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Tomsk Polytechnic University, Tomsk, Russia

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National Research Tomsk Polytechnic University, Tomsk, Russia

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National Research Tomsk Polytechnic University, Tomsk, Russia

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VACUUM GAS OIL HYDROTREATMENT USING NiMo(W)S AND Ni2P CATALYSTS SUPPORTED ON MESOPOROUS POLYMERIC NANOSPHERES

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Demikhova N., Artemova M., Glotov A., Tsaplin D., Ivanov E., Vinokurov V.

MICRO-MESOPOROUS Pt-CONTAINING CATALYSTS FOR XYLENES HYDROISOMERIZATION

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[2]Lomonosov Moscow State University, Chemistry Department, Moscow, Russia

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National Research Tomsk Polytechnic University, Tomsk, Russia

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SIMULATION THE CATALYTIC PROCESS OF ISOMERIZATION REACTION OF PENTANE-HEXANE FRACTION TO MAXIMIZE THE OCTANE NUMBER OF REACTION PRODUCTS

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[3]Institute of Petrochemistry and Catalysis of RAS, Ufa, Russia

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Enikeeva L.V., Potemkin D.I., Uskov S.I., Snytnikov P.V., Enikeev M.R., Gubaydullin I.M.

GRAVITY SEARCH ALGORITHM FOR DETERMINING THE OPTIMAL KINETIC PARAMETERS OF LOW-TEMPERATURE STEAM CONVERSION OF C2 + HYDROCARBONS

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Glazov N.A., Zagoruiko A.N., Dik P.P.

CONNECTION BETWEEN STRUCTURE ATTRIBUTES AND ANALYTICAL METHODS USED FOR STOCHASTIC RECONSTRUCTION OF VACUUM GASOIL

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Ziyadullaev O.E., Abdurakhmanova S.S., Samatov S.B., Otamukhamedova G.Q., Tirkasheva S.I., Ikramov A.

SYNTHESIS OF ACETYLENE ALCOHOLS BY CATALYSTS $ZNET_2/TI(O^IPR)_4$/PHME AND $SN(OTF)_2/NET_3$/MECN

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Gubaydullin I.M., Koledina K.F., Zaynullin R.Z., Koledin S.N.

MATHEMATICAL MODELING OF KINETICS OF GASOLINE CATALYTIC REFORMING

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Ignatyeva V.I., Caplin D.E., Maximov A.L., Karakhanov E.A.

MODIFIED ZEOLITE MESOPOROUS CATALYST SYSTEMS OF TYPE ZSM-12 FOR ONE-STEP CONVERSION OF CYCLOHEXANE TO ε-CAPROLACTONE

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Isaeva V.I., Chernyshev V.V., Tarasov A.L., Kustov L.M.

CONVERSION OF CARBON DIOXIDE INTO PROPIONIC ALDEHYDE ON Co (Rh) NANOPARTICLES ENCAPSULATED IN THE METAL-ORGANIC MATRIX MIL-53 (Al)

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Kazakova M.A., Vatutina Y.V., Kazakov M.O., Klimov O.V., Noskov A.S.

NOVEL COMPOSITE SUPPORT FOR CoMoS HYDROTREATING CATALYST BASED ON MWCNTs GROWN ON γ-AL_2O_3 BY CVD

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MULTI-CRITERIAL OPTIMIZATION OF A HETEROGENEOUS CATALYTIC REACTION

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Kondrasheva N.K., Konoplin R.R., Kondrashev D.O., Parfenova L.V., Shaidulina A.A.

PUT INTO INDUSTRIAL PRODUCTION DIFFICULTIES OF NOVEL EFFECTIVE HYDRODESULFURIZATION-CATALYSTS IN RUSSIAN FEDERATION

Saint-Petersburg Mining University, Saint Petersburg, Russia

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Kovalev I.V., Popov M.P., Bychkov S.F., Malbakhova I.A., Nemudry A.P.

CATALYTIC CONVERSION OF HYDROCARBONS USING OXYGEN-SELECTIVE MICROTUBULAR MEMBRANES FOR HYDROGEN PRODUCTION

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Krivonos O.I., Terekhova E.N., **Belskaya O.B.**

CATALYTIC HYDROPROCESSING OF ORGANIC MATTER OF SAPROPELS IN VALUABLE CHEMICAL PRODUCTS

Center of New Chemical Technologies BIC, Omsk, Russia

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Krivtsova N.I., Kotkova E.P.

JOINT HYDROTREATING OF DIESEL FRACTION WITH GASOLINE

National Research Tomsk Polytechnic University, Tomsk, Russia

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Najafova M.A., Salmanova C.G.

INITIATED PHOTOCATALYTIC PROCESSES OF HYDROTREATMENT OF HEAVY OIL RESIDUES

Institute of Petrochemical Processes named after Yu.G. Mamedaliyev ANAS, Baku, Azerbaijan

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Nazarova G.Yu., Ivanchina E.D., Chernyakova E.S., Pchelintseva I.V., Poluboyartsev D.S.

OPTIMIZATION OF A SEMIREGENERATIVE CATALYTIC REFORMING OF NAPHTHA WITH THE MATEMATICAL MODELLING METHOD USING

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Nikoshvili L., Grigorev M., Abusuek D., Mikhailov S., **Matveeva V.**, Sulman E.

MONO- AND BIMETALLIC CATALYSTS BASED ON HYPER-CROSSLINKED POLYSTYRENE FOR HYDROGENATION OF BIOMASS-DERIVED LEVULINIC ACID

Tver State Technical University, Tver, Russia

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Salnikova K.E., Sulman M.G., Mikhailov S.P., Bykov A.V., **Matveeva V.G.**

FURFURYL ALCOHOL AS ONE OF THE PRODUCTS OF LIGNOCELLULOSIC BIOMASS HYDROTREATMENT

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Orlova A.M., **Kirgina M.V.**, Bogdanov I.A.

INVESTIGATION THE INFLUENCE OF ADDITION THE HEAVY N-PARAFFINS ON THE EFFECTIVENESS OF DEPRESSANT ADDITIVE ACTION

National Research Tomsk Polytechnic University, Tomsk, Russia

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Podryga V., Polyakov S., Trapeznikova M., Churbanova N.

DEVELOPING OF MULTISCALE APPROACH TO HPC-SIMULATION OF MULTIPHASE FLUID FLOWS

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Popov M.V., **Zagoruiko A.N.**, Brester A.E., Lopatin S.A.

DECOMPOSITION OF LIGHT HYDROCARBON TO HYDROGEN ON A FIBERGLASS CATALYST

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Zazhigalov S., Popov M., Belotserkovskiy V., Nemudry A., Zagoruiko A.

MATHEMATICAL MODELING AND EXPERIMENTAL STUDIES OF HYDROGEN COMBUSTION IN MICROTUBULAR SOLID OXIDE FUEL CELLS

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MODELING OF HYDROGEN PRODUCTION BY DIESEL REFORMING AT Rh/$Ce_{0.75}Zr_{0.25}O_{2-\delta}$-η-$Al_2O_3$/FeCrAl WIRE MESH HONEYCOMB CATALYTIC MODULE

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Potemkin D.I., Uskov S.I., Gorlova A.M., Zagoruiko A.N., Fedorova Z.A., Snytnikov P.V., Kirillov V.A., Sobyanin V.A.

HYTHANE PRODUCTION VIA LOW-TEMPERATURE STEAM REFORMING OF NATURAL GAS

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Roldugina E.A., Shayakhmetov N.N., Maximov A.L., Karakhanov E.A.

HYDROTREATMENT OF FURFURAL AS BIO-OIL MODEL COMPOUND OVER Ru-CATALYSTS SUPPORTED ON MESOPOROUS MATERIALS

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Salnikov V.A., Borutskii P.N., Dorofeeva E.A., Sorokin I.I., Pakhomov N.A.

DEVELOPMENT OF NiMoP CATALYST FOR HYDROTREATING OF DIESEL FUEL UNDER HIGH PRESSURE

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Semikin K.V., Sladkovskiy D.A., Sladkovskaya E.V., Kuzichkin N.V.

PROPANOL PRODUCTION FROM PROPYL PROPIONATE

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Sineva L.V., Gorokhova E.O., Gryaznov K.O., Mordkovich V.Z.

ZEOLITES AS A TOOL FOR INTENSIFICATION OF MASS TRANSFER ON THE SURFACE OF A COBALT FISCHER–TROPSCH SYNTHESIS CATALYST

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Stepacheva A.A., Bykov A., Demidenko G., Nikoshvili L., Bakhvalova E., Dobryanskaya A., Matveeva V., Sulman M.

NOBLE METAL-CONTAINING NANOPARTICLES STABILIZED IN HYPERCROSSLINKED POLYSTYRENE AS EFFECTIVE CATALYSTS OF AROMATIC RING HYDROGENATION

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Stepacheva A.A., Shimanskaya E., Molchanov V., Sulman A., Sulman E., Sulman M.

LIGNIN AND MODEL SUBSTANCE CATALYTIC HYDROGENOLYSIS

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Tirado A., Trejo F., Ancheyta J.

MODELLING OF A BENCH-SCALE FIXED-BED REACTOR FOR CATALYTIC HYDROTREATING OF VEGETABLE OIL

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Vutolkina A.V., Pimerzin Al.A., Glotov A.P.

MESOPOROUS HALLOYSITE AND HIERARCHICAL MCM-41/HALLOYSITE ALUMINOSILICATES SUPPORTED CoMoS HDS CATALYSTS

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Yunusov M.P., **Nasullaev Kh.A.**, Djalalova Sh.B., Gulomov Sh.T., Sultanov A.P.

STUDY OF ZEOLITE SORBENTS SYNTHESIZED BASED ON LOCAL KAOLIN

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Yunusov M.P., **Nasullaev Kh.A.**, Gulomov Sh.T., Turdieva D.P., Abduraxmanova I.S., Rahimjanov B.B.

OPTIMIZATION OF THE SYNTHESIS TECHNOLOGY OF HIGHLY DISPERSED ALUMINUM HYDROXIDE USING VARIOUS REAGENTS

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