Eduard A Karakhanov

List of Publications by Year in Descending Order

186 papers	1,625 citations	20 h-index	31 g-index
199 ext. papers	1,972 ext. citations	2 avg, IF	4.97 L-index

#	Paper	IF	Citations
186	Transformations of Carbon Dioxide under Homogeneous Catalysis Conditions (A Review). *Petroleum Chemistry*, **2022**, 62, 1	1.1	1
185	New Type of Catalyst for Efficient Aerobic Oxidative Desulfurization Based On Tungsten Carbide Synthesized by the Microwave Method.. *ACS Omega*, **2022**, 7, 11788-11798	3.9	1
184	Comparison of Physicochemical Properties and Catalytic Activity in the m-Xylene Isomerization of Catalysts Based on ZSM-12 Zeolites Prepared at Hydrothermal Conditions and under the Action of Microwave Radiation. *Russian Journal of Applied Chemistry*, **2021**, 94, 1292-1301	0.8	
183	Biphenyl Hydrogenation with Syngas for Hydrogen Purification and Transportation: Performance of Dispersed Catalytic Systems Based on Transition Metal Sulfides. *Petroleum Chemistry*, **2021**, 61, 1131-1137	1.1	0
182	Selective Hydrogenation of Phenol Using a Ni2P Catalyst Supported on Mesoporous Polymeric Nanospheres. *Petroleum Chemistry*, **2021**, 61, 1111	1.1	
181	Functionalization strategy influences the porosity of amino-containing porous aromatic frameworks and the hydrogenation activity of palladium catalysts synthesized on their basis. *Molecular Catalysis*, **2021**, 112012	3.3	0
180	Non-phosphorus recyclable Rh/triethanolamine catalytic system for tandem hydroformylation/hydrogenation and hydroaminomethylation of olefins under biphasic conditions. *Molecular Catalysis*, **2021**, 516, 112010	3.3	1
179	Heterogeneous Catalyst Based on Phosphine-Containing Organic Polymer for Hydroformylation of Octene-1. *Petroleum Chemistry*, **2021**, 61, 688-696	1.1	1
178	Reactive Adsorption Desulfurization of Dibenzothiophene in Presence of Mesoporous Adsorbents. *Russian Journal of Applied Chemistry*, **2021**, 94, 586-594	0.8	1
177	Metal-Free Oxidative Desulfurization Catalysts Based on Porous Aromatic Frameworks. *Industrial & Engineering Chemistry Research*, **2021**, 60, 9049-9058	3.9	4
176	Polymeric Heterogeneous Catalysts in the Hydroformylation of Unsaturated Compounds. *Petroleum Chemistry*, **2021**, 61, 1-14	1.1	6
175	One-pot synthesis of short-chain cyclic acetals via tandem hydroformylation–acetalization under biphasic conditions. *Reaction Chemistry and Engineering*, **2021**, 6, 839-844	4.9	1
174	Crystallization of Zeolites in the Presence of Diquaternary Alkylammonium Salts Derived from Dimethylethanolamine. *Petroleum Chemistry*, **2021**, 61, 815-824	1.1	1
173	Pt and Ru Catalysts Based on Porous Aromatic Frameworks for Hydrogenation of Lignin Biofuel Components. *Petroleum Chemistry*, **2021**, 61, 711-720	1.1	1
172	Tandem hydroformylation/hydrogenation over novel immobilized Rh-containing catalysts based on tertiary amine-functionalized hybrid inorganic-organic materials. *Applied Catalysis A: General*, **2021**, 623, 118266	5.1	7
171	The Effect of Sulfonate Groups in the Structure of Porous Aromatic Frameworks on the Activity of Platinum Catalysts Towards Hydrodeoxygenation of Biofuel Components. *Petroleum Chemistry*, **2021**, 61, 1061-1070	1.1	0
170	Functional supramolecular systems: design and applications. *Russian Chemical Reviews*, **2021**, 90, 895-1078	6.8	15

169	Bizeolite Pt/ZSM-5:ZSM-12/Al2O3 catalyst for hydroisomerization of C-8 fraction with various ethylbenzene content. *Catalysis Today*, **2021**, 378, 83-95	5.3	6
168	Selective Hydrogenation of Phenylacetylene on a Pd-Containing Catalyst Based on a Polymer Layered Substrate. *Russian Journal of Applied Chemistry*, **2020**, 93, 258-267	0.8	
167	Ruthenium Catalysts Templated on Mesoporous MCM-41 Type Silica and Natural Clay Nanotubes for Hydrogenation of Benzene to Cyclohexane. *Catalysts*, **2020**, 10, 537	4	17
166	Methyl Formate: How It Can Be Used as Formyl Group Source for Synthesis of Aldehydes via Hydroformylation?. *ChemistrySelect*, **2020**, 5, 6407-6414	1.8	5
165	Ni-Based Nanoparticles on Mesoporous Silica Supports for Single-Stage Arsenic and Chlorine Removal during Diesel Fraction Hydrotreating. *ACS Omega*, **2020**, 5, 6611-6618	3.9	3
164	Hydroconversion of 2-methylnaphtalene and dibenzothiophene over sulfide catalysts in the presence of water under CO pressure. *Russian Chemical Bulletin*, **2020**, 69, 280-288	1.7	2
163	Alternative sources of syngas for hydroformylation of unsaturated compounds. *Russian Chemical Bulletin*, **2020**, 69, 625-634	1.7	7
162	Formation of ruthenium nanoparticles inside aluminosilicate nanotubes and their catalytic activity in aromatics hydrogenation: the impact of complexing agents and reduction procedure. *Pure and Applied Chemistry*, **2020**, 92, 909-918	2.1	6
161	NiMo sulfide nanosized catalysts from water-soluble precursors for hydrogenation of aromatics under water gas shift conditions. *Pure and Applied Chemistry*, **2020**, 92, 949-966	2.1	7
160	Evaluation of sulfide catalysts performance in hydrotreating of oil fractions using comprehensive gas chromatography time-of-flight mass spectrometry. *Pure and Applied Chemistry*, **2020**, 92, 941-948	2.1	2
159	Hydrogenation of Alkenes on Molybdenum and Tungsten Carbides. *Theoretical Foundations of Chemical Engineering*, **2020**, 54, 1045-1051	0.9	1
158	The 18th IUPAC International Symposium Macromolecular-Metal Complexes (10–13 June, 2019, Moscow – Tver – Myshkin – Uglich – Moscow). *Pure and Applied Chemistry*, **2020**, 92, 815-816	2.1	
157	Manganese and Cobalt Doped Hierarchical Mesoporous Halloysite-Based Catalysts for Selective Oxidation of p-Xylene to Terephthalic Acid. *Catalysts*, **2020**, 10, 7	4	10
156	Cyclohexene Epoxidation Catalysts Based on Porous Aromatic Frameworks. *Petroleum Chemistry*, **2020**, 60, 1087-1093	1.1	0
155	Palladium Catalysts Based on Porous Aromatic Frameworks, Modified with Ethanolamino-Groups, for Hydrogenation of Alkynes, Alkenes and Dienes. *Catalysts*, **2020**, 10, 1106	4	5
154	Carbon Dioxide Reforming of Methane. *Russian Journal of Applied Chemistry*, **2020**, 93, 765-787	0.8	5
153	Ruthenium- and Palladium-Containing Catalysts Based on Mesoporous Polymer Nanospheres in Guaiacol Hydrogenation. *Petroleum Chemistry*, **2020**, 60, 1136-1140	1.1	2
152	Catalysts Based on Acidic SBA-15 for Deep Oxidative Desulfurization of Model Fuels. *Energy & Fuels*, **2020**, 34, 14611-14619	4.1	15

151	Production of Aromatic Hydrocarbons from Syngas: Principles, Problems, and Prospects. *Russian Journal of Applied Chemistry*, **2020**, 93, 933-953	0.8	3
150	Selective hydrogenation of terminal alkynes over palladium nanoparticles within the pores of amino-modified porous aromatic frameworks. *Catalysis Today*, **2020**, 357, 176-184	5.3	11
149	Deep Purification of Vacuum Gas Oil by the Method of Oxidative Desulfurization. *Petroleum Chemistry*, **2019**, 59, 975-978	1.1	6
148	Ethylene Hydroformylation in the Presence of Rhodium Catalysts in Hydrocarbon-Rich Media: The Stage of Combined Conversion of Refinery Gases to Oxygenates. *Petroleum Chemistry*, **2019**, 59, 1009-1016	1.1	6
147	Nickel–Tungsten and Nickel–Molybdenum Sulfide Diesel Hydrocarbon Hydrogenation Catalysts Synthesized in Pores of Aromatic Polymer Materials. *Petroleum Chemistry*, **2019**, 59, 575-580	1.1	7
146	Prospective Approach to the Anaerobic Bioconversion of Benzo- and Dibenzothiophene Sulfones to Sulfide. *Molecules*, **2019**, 24,	4.8	11
145	Hydroprocessing of Vacuum Gas Oil on NiMo Sulfide Catalyst Supported on an Ordered Mesoporous Polymer. *Russian Journal of Applied Chemistry*, **2019**, 92, 300-303	0.8	
144	Alkali Earth Catalysts Based on Mesoporous MCM-41 and Al-SBA-15 for Sulfone Removal from Middle Distillates. *ACS Omega*, **2019**, 4, 12736-12744	3.9	7
143	Acid Catalysts Based on Mesoporous Aromatic Frameworks in Aldol Condensation of Furfural with Some Carbonyl Compounds. *Russian Journal of Applied Chemistry*, **2019**, 92, 857-864	0.8	2
142	Catalytic Decomposition of Methyl Formate in the Presence of Transition Metal Complexes, Phosphine Ligands and Water. *Petroleum Chemistry*, **2019**, 59, 412-419	1.1	2
141	Desulfurization of Light Distillates by Oxidation and Rectification of Gas Condensate. *Petroleum Chemistry*, **2019**, 59, 608-614	1.1	2
140	Catalysts Based on Porous Polyaromatic Frameworks for Deep Oxidative Desulfurization of Model Fuel in Biphasic Conditions. *Industrial & Engineering Chemistry Research*, **2019**, 58, 20562-20572	3.9	16
139	Effect of Oxidative Treatment on the Physicochemical Properties of Crude Oils. *Moscow University Chemistry Bulletin*, **2019**, 74, 198-203	0.5	
138	Ruthenium Catalysts on ZSM-5/MCM-41 Micro-Mesoporous Support for Hydrodeoxygenation of Guaiacol in the Presence of Water. *Russian Journal of Applied Chemistry*, **2019**, 92, 1170-1178	0.8	7
137	A Nanospherical Mesoporous Ruthenium-Containing Polymer as a Guaiacol Hydrogenation Catalyst. *Petroleum Chemistry*, **2019**, 59, 1300-1306	1.1	5
136	Effect of Template Structure on the Zeolite ZSM-12 Crystallization Process Characteristics. *Petroleum Chemistry*, **2019**, 59, S60-S65	1.1	3
135	Diesel Fraction Hydrotreating in the Presence of Nickel–Tungsten Sulfide Catalyst Particles In Situ Synthesized in Pores of Aromatic Polymers. *Petroleum Chemistry*, **2019**, 59, S66-S71	1.1	2
134	Hydro-Oxygenation of Furfural in the Presence of Ruthenium Catalysts Based on Al-HMS Mesoporous Support. *Russian Journal of Applied Chemistry*, **2019**, 92, 1306-1315	0.8	1

133	Mesoporous aromatic frameworks modified by metal chlorides in phenol alkylation with oct-1-ene. *Russian Chemical Bulletin*, **2019**, 68, 2083-2087	1.7	
132	Aluminosilicates supported La-containing sulfur reduction additives for FCC catalyst: Correlation between activity, support structure and acidity. *Catalysis Today*, **2019**, 329, 135-141	5.3	21
131	Mesoporous Metal Catalysts Templated on Clay Nanotubes. *Bulletin of the Chemical Society of Japan*, **2019**, 92, 61-69	5.1	82
130	Core-shell nanoarchitecture: Schiff-base assisted synthesis of ruthenium in clay nanotubes. *Pure and Applied Chemistry*, **2018**, 90, 825-832	2.1	21
129	Macro- and Supramolecular Architectures and Materials: Multifunctional Materials and Structures (MAM-17). *Pure and Applied Chemistry*, **2018**, 90, 809-809	2.1	
128	Hydroconversion of Naphthalene in the Presence of NiMoS/NiWS-AlCl3 Catalyst Systems Derived from Mesoporous Aromatic Frameworks. *Chemistry and Technology of Fuels and Oils*, **2018**, 53, 879-884	0.4	5
127	Study of the Oxidation Products of Light Oil Aromatic Compounds Using Ultrahigh Resolution Mass Spectrometry. *Chemistry and Technology of Fuels and Oils*, **2018**, 53, 891-896	0.4	1
126	Selective Levulinic Acid Hydrogenation in the Presence of Hybrid Dendrimer-Based Catalysts. Part I: Monometallic. *ChemCatChem*, **2018**, 10, 222-233	5.2	16
125	Hydrogenation of Aromatic Substrates over Dispersed NiMo Sulfide Catalysts in System H2O/CO. *Petroleum Chemistry*, **2018**, 58, 528-534	1.1	7
124	New Heterogeneous Rh-Containing Catalysts Immobilized on a Hybrid Organic-Inorganic Surface for Hydroformylation of Unsaturated Compounds. *ACS Applied Materials & Interfaces*, **2018**, 10, 26566-26573	8.5	19
123	Obtaining of highly-active catalysts of unsaturated compounds hydrogenation by using supercritical carbon dioxide. *Journal of Supercritical Fluids*, **2018**, 140, 387-393	4.2	6
122	Oxidation of p-Xylene. *Russian Journal of Applied Chemistry*, **2018**, 91, 707-727	0.8	7
121	Development of micro-mesoporous materials with lamellar structure as the support of NiW catalysts. *Microporous and Mesoporous Materials*, **2018**, 263, 150-157	5.3	26
120	Hydroconversion of Thiophene Derivatives over Dispersed NiMo Sulfide Catalysts. *Petroleum Chemistry*, **2018**, 58, 1227-1232	1.1	7
119	Peroxide-Assisted Oxidative Desulfurization of Nonhydrotreated Vacuum Gas Oil. *Theoretical Foundations of Chemical Engineering*, **2018**, 52, 894-897	0.9	1
118	Development of Protective-Layer Catalysts for Removal of Chlorine Compounds from Diesel Fractions. *Russian Journal of Applied Chemistry*, **2018**, 91, 2040-2045	0.8	2
117	Synthesis of ZSM-12 Zeolites with New Templates Based on Salts of Ethanolamines. *Russian Journal of Applied Chemistry*, **2018**, 91, 1957-1962	0.8	5
116	Hydrotreating of Light Cycle Oil over Supported on Porous Aromatic Framework Catalysts. *Catalysts*, **2018**, 8, 397	4	8

115	Development of NiMo Sorption-Catalytic Materials for Removing Arsenic Compounds from Middle Distillates. *Russian Journal of Applied Chemistry*, **2018**, 91, 1688-1693	0.8	1
114	Properties of Bioconjugates of Streptokinase with Anionic Polyamidoamine Dendrimers of Various Generations. *Russian Journal of Bioorganic Chemistry*, **2018**, 44, 528-537	1	1
113	Tandem HydroformylationAcetalization Using a Water-Soluble Catalytic System: a Promising Procedure for Preparing Valuable Oxygen-Containing Compounds from Olefins and Polyols. *Russian Journal of Applied Chemistry*, **2018**, 91, 990-995	0.8	7
112	Hydroconversion of Oxidation Products of Sulfur-Containing Aromatic Compounds. *Russian Journal of Applied Chemistry*, **2018**, 91, 981-989	0.8	4
111	Oxidative Desulfurization of Fuels Using Heterogeneous Catalysts Based on MCM-41. *Energy & Fuels*, **2018**, 32, 10898-10903	4.1	43
110	Microwave-assisted preparation and characterization of nanoscale rhenium diboride. *Ceramics International*, **2018**, 44, 22339-22344	5.1	3
109	Guaiacol Hydrogenation in an Aqueous Medium in the Presence of a Palladium Catalyst Supported on a Mesoporous Dendrimer-Containing Polymer. *Petroleum Chemistry*, **2018**, 58, 407-411	1.1	5
108	Alkylation of Aromatic Compounds in the Presence of Catalysts Based on Mesoporous PhenolFormaldehyde Polymers. *Petroleum Chemistry*, **2018**, 58, 412-417	1.1	3
107	Oxidative Desulfurization of Hydrocarbon Feedstock. *Russian Journal of Applied Chemistry*, **2018**, 91, 529-542	0.8	20
106	Bimetallic NiMo Sulfide Catalysts Based on Mesoporous Aluminosilicate (Al-HMS) in Shale Oil Hydrocracking. *Chemistry and Technology of Fuels and Oils*, **2017**, 52, 638-645	0.4	
105	Thrombolytic and fibrinogenolytic properties of bioconjugate streptokinase-polyamidoamine dendrimers in vitro. *Thrombosis Research*, **2017**, 154, 50-52	8.2	11
104	Mesoporous organo-inorganic hybrid materials as hydrogenation catalysts. *Pure and Applied Chemistry*, **2017**, 89, 1157-1166	2.1	7
103	Unsaturated-compound hydrogenation nanocatalysts based on palladium and platinum particles immobilized in pores of mesoporous aromatic frameworks. *Petroleum Chemistry*, **2017**, 57, 222-229	1.1	7
102	Bimetallic sulfide catalysts based on mesoporous organic supports in the hydrofining of light cycle oil. *Petroleum Chemistry*, **2017**, 57, 855-858	1.1	9
101	Oxo Processes Involving Ethylene (a Review). *Petroleum Chemistry*, **2017**, 57, 1137-1140	1.1	6
100	Palladium nanoparticles on dendrimer-containing supports as catalysts for hydrogenation of unsaturated hydrocarbons. *Molecular Catalysis*, **2017**, 440, 107-119	3.3	29
99	Hydrogenation of Unsaturated Hydrocarbons on Platinum and Palladium Catalysts Encapsulated in Mesoporous Bakelites. *Chemistry and Technology of Fuels and Oils*, **2017**, 53, 318-332	0.4	0
98	NickelMolybdenum sulfide catalysts supported on an ordered mesoporous polymer for hydrogenatingHydrocracking of model biaromatic petroleum compounds. *Petroleum Chemistry*, **2017**, 57, 673-677	1.1	3

97	Hydrodearomatization catalysts based on molybdenum hexacarbonyl Mo(CO)6 supported on mesoporous aromatic frameworks. *Petroleum Chemistry*, **2017**, 57, 589-594	1.1	7
96	Core/Shell Ruthenium–Halloysite Nanocatalysts for Hydrogenation of Phenol. *Industrial & Engineering Chemistry Research*, **2017**, 56, 14043-14052	3.9	69
95	Alkylation of phenol with olefins in the presence of catalysts based on mesoporous aromatic frameworks. *Russian Chemical Bulletin*, **2017**, 66, 39-46	1.7	6
94	Hydrotreating of Middle-Distillate Fraction on Sulfide Catalysts Containing Crystalline Porous Aluminosilicates. *Petroleum Chemistry*, **2017**, 57, 1151-1155	1.1	9
93	Peroxide Oxidative Desulfurization of Crude Petroleum. *Petroleum Chemistry*, **2017**, 57, 1132-1136	1.1	5
92	Dendrimer-Stabilized Ru Nanoparticles Immobilized in Organo-Silica Materials for Hydrogenation of Phenols. *Catalysts*, **2017**, 7, 86	4	26
91	Catalytic Cracking of Petroleum Feedstock in the Presence of Additives Derived from Cross-linked Mesoporous Oxides for Reduction of the Sulfur Content in Liquid Products. *Chemistry and Technology of Fuels and Oils*, **2016**, 52, 171-174	0.4	4
90	Catalytic cracking additives based on mesoporous MCM-41 for sulfur removal. *Fuel Processing Technology*, **2016**, 153, 50-57	7.2	34
89	Nanoheterogeneous ruthenium-containing catalysts based on dendrimers in the hydrogenation of aromatic compounds under two-phase conditions. *Petroleum Chemistry*, **2016**, 56, 491-502	1.1	14
88	Hydrocracking of Vacuum Gas Oil on Bimetallic Ni-Mo Sulfide Catalysts Based on Mesoporous Aluminosilicate Al-HMS. *Chemistry and Technology of Fuels and Oils*, **2016**, 52, 515-526	0.4	2
87	Hydroconversion of kerogen-containing raw materials into synthetic crude oil. *Solid Fuel Chemistry*, **2016**, 50, 232-237	0.7	4
86	Synthesis of novel promising materials via impregnation of crosslinked polymeric networks with metal complexes in supercritical carbon dioxide. *Russian Journal of Physical Chemistry B*, **2016**, 10, 1163-1165	1.2	5
85	Hydroprocessing of Aromatics Using Sulfide Catalysts Supported on Ordered Mesoporous Phenol–Formaldehyde Polymers. *Journal of Inorganic and Organometallic Polymers and Materials*, **2016**, 26, 1253-1258	3.2	12
84	Thermo-responsive Ruthenium Dendrimer-based Catalysts for Hydrogenation of the Aromatic Compounds and Phenols. *Journal of Inorganic and Organometallic Polymers and Materials*, **2016**, 26, 1264-1279	3.2	13
83	Palladium Catalysts Based on Mesoporous Organic Materials in Semihydrogenation of Alkynes. *Macromolecular Symposia*, **2016**, 363, 57-63	0.8	14
82	Ruthenium catalysts based on mesoporous aromatic frameworks for the hydrogenation of arenes. *Reaction Kinetics, Mechanisms and Catalysis*, **2016**, 117, 729-743	1.6	31
81	New approach for highly selective hydrogenation of phenol to cyclohexanone: Combination of rhodium nanoparticles and cyclodextrins. *Catalysis Communications*, **2016**, 73, 63-68	3.2	42
80	Sulfide Catalysts Supported on Porous Aromatic Frameworks for Naphthalene Hydroprocessing. *Catalysts*, **2016**, 6, 122	4	20

79	Synthesis of Ni–W aromatic hydrocarbon hydrogenation catalysts by the ex situ and in situ decomposition of a precursor based on a dendrimer network. *Petroleum Chemistry*, **2016**, 56, 1107-1113	1.1	4
78	Hybrid catalysts based on platinum and palladium nanoparticles for the hydrogenation of terpenes under slurry conditions. *Petroleum Chemistry*, **2016**, 56, 1114-1122	1.1	5
77	Conversion of triglycerides to fuel hydrocarbons over a Pt–Pd/Al–MS catalyst. *Petroleum Chemistry*, **2016**, 56, 836-840	1.1	2
76	Physicochemical analysis of a kerogen rock (oil shale). *Moscow University Chemistry Bulletin*, **2016**, 71, 329-335	0.5	3
75	Synthesis of phosphine-containing dipyrromethene cobalt complexes, promising ligands for homogeneous catalysis in nanomembrane reactors. *Russian Journal of Organic Chemistry*, **2016**, 52, 1625-1631	0.7	1
74	Thermoextractive Conversions of Kerogen-Containing Materials. *Chemistry and Technology of Fuels and Oils*, **2016**, 51, 640-643	0.4	
73	Platinum and palladium nanoparticles in modified mesoporous phenol–formaldehyde polymers as hydrogenation catalysts. *Petroleum Chemistry*, **2016**, 56, 109-120	1.1	15
72	Cation-exchange resins in the hydroformylation–acetalization tandem reaction. *Petroleum Chemistry*, **2016**, 56, 711-716	1.1	5
71	Reduction of sulfur content in shale oil by oxidative desulfurization. *Petroleum Chemistry*, **2016**, 56, 771-773	1.1	4
70	Hydroconversion of rosin acids in the presence of Pt-containing Al–MS mesoporous aluminosilicate. *Petroleum Chemistry*, **2016**, 56, 717-723	1.1	5
69	Hydrogenation of aromatic hydrocarbons over nickel–tungsten sulfide catalysts containing mesoporous aluminosilicates of different nature. *Petroleum Chemistry*, **2016**, 56, 599-606	1.1	10
68	Conversion of C19–C38 n-paraffins into components of kerosene and diesel fuels on Pt-containing amorphous aluminosilicate. *Moscow University Chemistry Bulletin*, **2016**, 71, 37-44	0.5	3
67	Ruthenium Nanoparticles Stabilized in Cross-Linked Dendrimer Matrices: Hydrogenation of Phenols in Aqueous Media. *ChemCatChem*, **2015**, 7, 1197-1210	5.2	33
66	Reduction of the total sulfur content of the liquid products obtained by the extraction of oil shale (short communication). *Solid Fuel Chemistry*, **2015**, 49, 324-325	0.7	1
65	Oxidative desulfurization of hydrocarbon fuel with high olefin content. *Petroleum Chemistry*, **2015**, 55, 571-574	1.1	15
64	Hydroformylation in petroleum chemistry and organic synthesis: Implementation of the process and solving the problem of recycling homogeneous catalysts (Review). *Petroleum Chemistry*, **2015**, 55, 587-603	1.1	21
63	Oil Sludge Treatment Processes. *Chemistry and Technology of Fuels and Oils*, **2015**, 51, 506-515	0.4	25
62	Lipids of Basidial Fungi as Feedstock for Biodiesel Fuel Production. *Chemistry and Technology of Fuels and Oils*, **2015**, 51, 411-421	0.4	4

61	Synthesis of cyclic acetals by hydroformylation of oct-1-ene in the presence of polyols. *Russian Chemical Bulletin*, **2015**, 64, 943-947	1.7	7
60	Catalytic cracking of vacuum gas oil with wave-induced feedstock preactivation. *Theoretical Foundations of Chemical Engineering*, **2015**, 49, 756-762	0.9	
59	Cracking of vacuum gas oil over poisoned and passivated catalysts with wave-induced feedstock preactivation. *Theoretical Foundations of Chemical Engineering*, **2015**, 49, 763-768	0.9	
58	Selective hydrogenation of diene hydrocarbons over palladium catalysts synthesized by modified electric field-assisted laser ablation. *Petroleum Chemistry*, **2015**, 55, 542-548	1.1	1
57	Hydrogenation of aromatic hydrocarbons in the presence of dibenzothiophene over platinum-palladium catalysts based on Al-SBA-15 aluminosilicates. *Petroleum Chemistry*, **2014**, 54, 94-99	1.1	8
56	Pd nanoparticles in dendrimers immobilized on silica-polyamine composites as catalysts for selective hydrogenation. *ACS Applied Materials & Interfaces*, **2014**, 6, 8807-16	9.5	58
55	Carbonylation of methanol and dimethyl ether in ionic liquids. *Petroleum Chemistry*, **2014**, 54, 283-287	1.1	2
54	Methylformate as replacement of syngas in one-pot catalytic synthesis of amines from olefins. *Catalysis Science and Technology*, **2014**, 4, 540-547	5.5	16
53	Phenol and dihydroxybenzene hydrogenation catalysts based on polyamide dendrimers and rhodium species. *Petroleum Chemistry*, **2014**, 54, 412-419	1.1	10
52	Mesoporous organic Pd-containing catalysts for the selective hydrogenation of conjugated hydrocarbons. *Russian Chemical Bulletin*, **2014**, 63, 1710-1716	1.7	7
51	Hydrogenation of phenols in ionic liquids on rhodium nanoparticles. *Petroleum Chemistry*, **2013**, 53, 157-163	1.1	15
50	Use of ionic liquids in cyclohexene epoxidation with hydrogen peroxide. *Petroleum Chemistry*, **2013**, 53, 110-116	1.1	4
49	Hydrogenation catalysts based on metal nanoparticles stabilized by organic ligands. *Russian Chemical Bulletin*, **2013**, 62, 1465-1492	1.7	19
48	Ultra-low palladium catalysts for phenylacetylene semihydrogenation: Synthesis by modified pulsed laser ablation–deposition. *Applied Catalysis A: General*, **2013**, 464-465, 253-260	5.1	12
47	Hydrogenation of aromatic compounds in the presence of dibenzothiophene over bimetallic catalysts containing mesoporous aluminosilicates. *Petroleum Chemistry*, **2013**, 53, 97-101	1.1	7
46	Catalytic aminomethylation of alkenes in a dimethylformamide medium. *Petroleum Chemistry*, **2012**, 52, 179-185	1.1	7
45	Hydroisomerization of n-dodecane on bifunctional catalysts containing mesoporous aluminosilicates. *Petroleum Chemistry*, **2012**, 52, 228-232	1.1	5
44	Iron and copper complexes with nitrogen-containing ligands as catalysts for cyclohexane oxidation with hydrogen peroxide under mild reaction conditions. *Petroleum Chemistry*, **2012**, 52, 318-326	1.1	23

43	Palladium nanoparticles on dendrimer-containing supports as catalysts for hydrogenation of unsaturated hydrocarbons. *Petroleum Chemistry*, **2012**, 52, 289-298	1.1	15
42	Mesoporous aluminosilicates as components of gas oil cracking and higher-alkane hydroisomerization catalysts. *Petroleum Chemistry*, **2011**, 51, 151-156	1.1	9
41	Properties of mesoporous aluminosilicates prepared with nonionic surfactants. *Moscow University Chemistry Bulletin*, **2011**, 66, 116-120	0.5	2
40	Catalytic properties of transition metal salts immobilized on nanoporous silica polyamine composites II: hydrogenation. *Applied Organometallic Chemistry*, **2011**, 25, 245-254	3.1	19
39	Nanostructured Macromolecular Metal Containing Materials in Catalysis. *Macromolecular Symposia*, **2011**, 304, 55-64	0.8	15
38	Design of dendrimer-based nanostructured catalyst systems and their catalytic activity in hydrogenation: Synthesis of ruthenium nanoparticles immobilized in dendrimer networks. *Petroleum Chemistry*, **2010**, 50, 290-297	1.1	14
37	Copper nanoparticles as active catalysts in hydroxylation of phenol by hydrogen peroxide. *Applied Catalysis A: General*, **2010**, 385, 62-72	5.1	47
36	Molecular Imprinting Technique for the Design of Cyclodextrin Based Materials and Their Application in Catalysis. *Current Organic Chemistry*, **2010**, 14, 1284-1295	1.7	15
35	Dendrimer-based catalysts in Wacker-oxidation: Unexpected selectivity to terminal double bonds. *Journal of Molecular Catalysis A*, **2009**, 297, 73-79		12
34	Biphasic catalysis in petrochemical processes. *Russian Journal of General Chemistry*, **2009**, 79, 1370-1383	0.7	5
33	Hybrid macromolecular iron and copper complexes in the phenol hydroxylation reaction. *Petroleum Chemistry*, **2009**, 49, 107-113	1.1	3
32	Molecules-Receptors: Different Approaches to Design Effective Catalysts. *Macromolecular Symposia*, **2008**, 270, 106-116	0.8	14
31	Design of supramolecular metal complex catalytic systems for petrochemical and organic synthesis. *Russian Chemical Bulletin*, **2008**, 57, 780-792	1.7	9
30	Oxidation of unsaturated compounds in ionic liquids with the use of cyclodextrin-containing catalytic systems. *Petroleum Chemistry*, **2007**, 47, 331-336	1.1	5
29	Hydroformylation of olefins catalyzed by rhodium complexes with phosphinitecalix[4]arenes. *Petroleum Chemistry*, **2007**, 47, 340-344	1.1	2
28	Oxidation of 2-naphthol in the presence of catalysts based on modified cyclodextrins. *Petroleum Chemistry*, **2007**, 47, 402-408	1.1	4
27	Supramolecular catalytic systems in biomimetic oxidation. *Russian Chemical Bulletin*, **2007**, 56, 621-630	1.7	8
26	Molecular Recognition and Catalysis: from Macrocyclic Receptors to Molecularly Imprinted Metal Complexes. *Macromolecular Symposia*, **2006**, 235, 39-51	0.8	16

25	Rhodium-calix[6]arene diphosphite complex as olefin hydroformylation catalyst. *Petroleum Chemistry*, **2006**, 46, 264-268	1.1	8
24	Design of supramolecular metal complex catalytic systems for organic and petrochemical synthesis. *Russian Chemical Reviews*, **2005**, 74, 97-111	6.8	17
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