Leonid Kustov

List of Publications by Year
in descending order

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417	6,893	81743	102304
papers	citations	39 h-index	66 g-index

434	434	434	6862
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects of the support on the morphology and electronic properties of supported metal clusters: modern concepts and progress in 1990s. Applied Catalysis A: General, 1999, 188, 3-35.	2.2	378
2	Adsorption of carbon monoxide on ZSM-5 zeolites: infrared spectroscopic study and quantum-chemical calculations. The Journal of Physical Chemistry, 1987, 91, 5247-5251.	2.9	249
3	Nanoshaped CuO/CeO₂ Materials: Effect of the Exposed Ceria Surfaces on Catalytic Activity in N₂O Decomposition Reaction. ACS Catalysis, 2015, 5, 5357-5365.	5.5	181
4	Organic and hybrid molecular systems. Mendeleev Communications, 2015, 25, 75-82.	0.6	170
5	Measuring and predicting Î”vapH298 values of ionic liquids. Physical Chemistry Chemical Physics, 2009, 11, 8544.	1.3	155
6	Comparative IR-spectroscopic study of low-temperature H2and CO adsorption on Na zeolites. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 3367-3372.	1.7	127
7	Ultrasound enhancement of cellulose processing in ionic liquids: from dissolution towards functionalization. Green Chemistry, 2007, 9, 1229.	4.6	126
8	The application of metal-organic frameworks in catalysis (Review). Petroleum Chemistry, 2010, 50, 167-180.	0.4	108
9	Ecotoxicity of different-shaped silver nanoparticles: Case of zebrafish embryos. Journal of Hazardous Materials, 2018, 347, 89-94.	6.5	98
10	Reaction Products and Transformations of Intermediates in the Aqueousâ€Phase Reforming of Sorbitol. ChemSusChem, 2010, 3, 708-718.	3.6	94
11	Ionic liquids as heat transfer fluids: comparison with known systems, possible applications, advantages and disadvantages. Russian Chemical Reviews, 2015, 84, 875-890.	2.5	90
12	Challenges in the development of organic and hybrid molecular systems. Mendeleev Communications, 2016, 26, 365-374.	0.6	89
13	Aqueous phase reforming of xylitol and sorbitol: Comparison and influence of substrate structure. Applied Catalysis A: General, 2012, 435-436, 172-180.	2.2	86
14	Organic and hybrid systems: from science to practice. Mendeleev Communications, 2017, 27, 425-438.	0.6	86
15	Infrared spectroscopic study of the interaction of cations in zeolites with simple molecular probes. Part 1.â€”Adsorption of molecular hydrogen on alkaline forms of zeolites as a test for localization sites. Journal of the Chemical Society, Faraday Transactions, 1991, 87, 2675-2678.	1.7	81
16	Heterogenized palladium chitosan complexes as potential catalysts in oxidation reactions: study of the structure. Journal of Molecular Catalysis A, 2004, 209, 97-106.	4.8	80
17	Selective oxidation of ethanol to acetaldehyde over Auâ€“Cu catalysts prepared by a redox method. Catalysis Today, 2015, 241, 246-254.	2.2	79
18	A Brief Review of Carbon Dioxide Hydrogenation to Methanol Over Copper and Iron Based Catalysts. Oil and Gas Science and Technology, 2017, 72, 30.	1.4	76

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19	Catalysis as an important tool of green chemistry. Russian Chemical Reviews, 2010, 79, 441-461.	2.5	72
20	Selective oxidation of aromatic compounds on zeolites using N2O as a mild oxidant. Catalysis Today, 2000, 61, 123-128.	2.2	66
21	The enthalpies of vaporisation of ionic liquids: new measurements and predictions. Physical Chemistry Chemical Physics, 2012, 14, 3181.	1.3	66
22	Pdâ€“Fe nanoparticles stabilized by chitosan derivatives for perchloroethene dechlorination. Environment International, 2011, 37, 1044-1052.	4.8	65
23	Methanol synthesis from the catalytic hydrogenation of CO2 over CuOâ€“ZnO supported on aluminum and silicon oxides. Journal of the Taiwan Institute of Chemical Engineers, 2017, 78, 416-422.	2.7	61
24	A review of recent advances towards the development of QSAR models for toxicity assessment of ionic liquids. Journal of Hazardous Materials, 2020, 384, 121429.	6.5	61
25	IR spectroscopic study of Pt/Kl zeolites using adsorption of CO as a molecular probe. Catalysis Letters, 1991, 9, 121-126.	1.4	60
26	Spectroscopic and ab initio study of the interaction of molecular hydrogen with the isolated silica hydroxyls and related systems. The Journal of Physical Chemistry, 1992, 96, 1040-1045.	2.9	60
27	Investigation of hydroxyl groups in crystalline silicoaluminophosphate SAPO-34 by diffuse reflectance infrared spectroscopy. Journal of the Chemical Society, Faraday Transactions, 1991, 87, 897.	1.7	59
28	Dehydrogenation of polycyclic naphthenes on a Pt/C catalyst for hydrogen storage in liquid organic hydrogen carriers. Fuel Processing Technology, 2018, 169, 94-100.	3.7	56
29	Aqueous-phase reforming of xylitol over Pt/C and Pt/TiC-CDC catalysts: catalyst characterization and catalytic performance. Catalysis Science and Technology, 2014, 4, 387-401.	2.1	54
30	In situ synthesis of novel ZIF-8 membranes on polymeric and inorganic supports. Journal of Materials Chemistry A, 2015, 3, 7469-7476.	5.2	53
31	An easy way to Pdâ€“Zn nanoalloy with defined composition from a heterobimetallic Pd(Î¼â€“OOCMe)4Zn(OH2) complex as evidenced by XAFS and XRD. Catalysis Letters, 2006, 112, 155-161.	1.4	51
32	Catalytic properties of Ru nanoparticles introduced in a matrix of hypercrosslinked polystyrene toward the low-temperature oxidation of d-glucose. Journal of Molecular Catalysis A, 2007, 278, 112-119.	4.8	46
33	Infrared spectroscopic study of the interaction of cations in zeolites with simple molecular probes. Part 3.â€”Adsorption and polarization of methane and ethane on cationic forms of high-silica zeolites. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 1393-1395.	1.7	44
34	A DRIFT spectroscopic study of acetylene adsorbed on metal oxides. Physical Chemistry Chemical Physics, 2003, 5, 4718.	1.3	42
35	Modelling the toxicity of a large set of metal and metal oxide nanoparticles using the OCHEM platform. Food and Chemical Toxicology, 2018, 112, 507-517.	1.8	42
36	Influence of steric factors on reversible reactions of hydrogenation-dehydrogenation of polycyclic aromatic hydrocarbons on a Pt/C catalyst in hydrogen storage systems. Fuel, 2020, 280, 118625.	3.4	41

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37	Smart Metalâ€Organic Frameworks (MOFs): Switching Gas Permeation through MOF Membranes by External Stimuli. Chemical Engineering and Technology, 2018, 41, 224-234.	0.9	40
38	Metalâ€“Organic Frameworks-Based Catalysts for Biomass Processing. Catalysts, 2018, 8, 368.	1.6	40
39	Synthesis of Pt modified ZSM-5 and beta zeolite catalysts: Influence of ultrasonic irradiation and preparation methods on physico-chemical and catalytic properties in pentane isomerization. Ultrasonics Sonochemistry, 2007, 14, 122-130.	3.8	39
40	Electrodeposition of rare earth metals Y, Gd, Yb in ionic liquids. Russian Journal of Physical Chemistry A, 2010, 84, 104-108.	0.1	39
41	Liquid-phase hydrogenation of phenylacetylene to styrene on silica-supported Pdâ€“Fe nanoparticles. Mendeleev Communications, 2016, 26, 228-230.	0.6	39
42	FTIR study of the effects of water pretreatment on the acid sites and the dispersion of metal particles in Y zeolites and mordenites. Journal of Molecular Catalysis, 1992, 71, 233-244.	1.2	38
43	Fischerâ€“Tropsch synthesis over MOF-supported cobalt catalysts (Co@MIL-53(Al)). Dalton Transactions, 2016, 45, 12006-12014.	1.6	37
44	Modern Carbonâ€“Based Materials for Adsorptive Removal of Organic and Inorganic Pollutants from Water and Wastewater. Molecules, 2021, 26, 6628.	1.7	37
45	Synthesis and Structural Characterization of a Series of Novel Zn(II)-based MOFs with Pyridine-2,5-dicarboxylate Linkers. Crystal Growth and Design, 2013, 13, 5305-5315.	1.4	35
46	Au/Pt/TiO2 catalysts prepared by redox method for the chemoselective 1,2-propanediol oxidation to lactic acid and an NMR spectroscopy approach for analyzing the product mixture. Applied Catalysis A: General, 2015, 491, 170-183.	2.2	35
47	Efficient polymer-based nanocatalysts with enhanced catalytic performance in wet air oxidation of phenol. Applied Catalysis B: Environmental, 2010, 94, 200-210.	10.8	34
48	The State and Reactivity of Pt6 Particles in ZSM-5 Zeolite. Catalysis Letters, 2008, 120, 8-13.	1.4	33
49	Metal-organic frameworks as materials for applications in sensors. Mendeleev Communications, 2019, 29, 361-368.	0.6	33
50	Catalytic activity of H-ZSM-5 and Cu-HZSM-5 zeolites of medium SiO2/Al2O3 ratio in conversion of n-hexane to aromatics. Journal of Petroleum Science and Engineering, 2019, 180, 773-778.	2.1	33
51	Metal/zeolite catalysts of methane dehydroaromatization. Russian Chemical Reviews, 2013, 82, 567-585.	2.5	32
52	Conversion of CO2 into liquid hydrocarbons in the presence of a Co-containing catalyst based on the microporous metal-organic framework MIL-53(Al). Fuel Processing Technology, 2018, 176, 101-106.	3.7	32
53	The effect of capping agents on the toxicity of silver nanoparticles to Danio rerio embryos. Nanotoxicology, 2019, 13, 1-13.	1.6	32
54	Microwave activation of catalysts and catalytic processes. Russian Journal of Physical Chemistry A, 2010, 84, 1676-1694.	0.1	31

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55	Adsorption of 2,4-dichlorophenoxyacetic acid in an aqueous medium on nanoscale MIL-53(Al) type materials. Dalton Transactions, 2019, 48, 15091-15104.	1.6	31
56	DRIFT, XPS and XAS Investigation of Auâ€“Ni/Al2O3 Synergetic Catalyst for Allylbenzene Isomerization. Topics in Catalysis, 2009, 52, 344-350.	1.3	30
57	Microwave activation as an alternative production of metal-organic frameworks. Russian Chemical Bulletin, 2016, 65, 2103-2114.	0.4	30
58	Catalytic Hydroamination of Unsaturated Hydrocarbons. Topics in Catalysis, 2016, 59, 1196-1206.	1.3	30
59	Effect of surface hydrophilization on Pt/Sibunit catalytic activity in bicyclohexyl dehydrogenation in hydrogen storage application. International Journal of Hydrogen Energy, 2018, 43, 6191-6196.	3.8	30
60	Systems for accumulation, storage and release of hydrogen. Russian Chemical Reviews, 2020, 89, 897-916.	2.5	30
61	Lanthanum cobaltite perovskite supported onto mesoporous zirconium dioxide: Nature of active sites of VOC oxidation. Environment International, 2011, 37, 1053-1056.	4.8	29
62	Selective Roomâ€Temperature Hydrogenation of Carbonyl Compounds under Atmospheric Pressure over Platinum Nanoparticles Supported on Ceriaâ€Zirconia Mixed Oxide. European Journal of Organic Chemistry, 2019, 2019, 4159-4170.	1.2	29
63	Advanced Room-Temperature Synthesis of 2,5-Bis(hydroxymethyl)furanâ€”A Monomer for Biopolymersâ€”from 5-Hydroxymethylfurfural. ACS Sustainable Chemistry and Engineering, 2021, 9, 1161-1171.	3.2	29
64	Low-temperature transformations of sodium sulfate and sodium selenite in the presence of pre-reduced palladium modifier in graphite furnaces for electrothermal atomic absorption spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2001, 56, 1387-1396.	1.5	28
65	Metal-organic frameworksâ€”New materials for hydrogen storage. Russian Journal of General Chemistry, 2007, 77, 721-739.	0.3	28
66	Study of selective adsorption of aromatic compounds from solutions by the flexible MIL-53(Al) metal-organic framework. Russian Chemical Bulletin, 2015, 64, 1039-1048.	0.4	28
67	Infrared spectroscopic study of the interactions of cations in zeolites with simple molecular probes. Part 2.â€”Adsorption and polarization of molecular hydrogen on zeolites containing polyvalent cations. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 3251-3253.	1.7	26
68	A new hydrogen storage system based on efficient reversible catalytic hydrogenation/dehydrogenation of terphenyl. International Journal of Hydrogen Energy, 2008, 33, 2721-2728.	3.8	26
69	Peculiarities of oxidative coupling of methane in redox cyclic mode over Agâ€“La2O3/SiO2 catalysts. Applied Catalysis A: General, 2010, 380, 28-32.	2.2	26
70	Hydrogen storage materials. Mendeleev Communications, 2014, 24, 1-8.	0.6	26
71	Control of morphology and size of microporous framework MIL-53(Al) crystals by synthesis procedure. Mendeleev Communications, 2015, 25, 466-467.	0.6	26
72	Alkaline-modified ZSM-5 zeolite to control hydrocarbon cold-start emission. Microporous and Mesoporous Materials, 2018, 260, 54-58.	2.2	26

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73	One-step hydrothermal microwave-assisted synthesis of LaFeO3 nanoparticles. Ceramics International, 2019, 45, 14384-14388.	2.3	26
74	Peculiarities of Adsorption of Organic Compounds and Water on Silicas with Bonded Polyfluoroalkyl Groups. Journal of Colloid and Interface Science, 2002, 254, 39-48.	5.0	25
75	Evaluation of stability of silica-supported Feâ€“Pd and Feâ€“Pt nanoparticles in aerobic conditions using thermal analysis. Journal of Thermal Analysis and Calorimetry, 2014, 118, 749-758.	2.0	25
76	New organicâ€“inorganic hybrid molecular systems and highly organized materials in catalysis. Russian Journal of Physical Chemistry A, 2015, 89, 2006-2021.	0.1	25
77	Ionic liquids based on the imidazolium cation in platinum and titanium electropolishing. Green Chemistry, 2011, 13, 1004.	4.6	23
78	Microwave-assisted synthesis of magnetite nanoparticles possessing superior magnetic properties. Mendeleev Communications, 2018, 28, 559-561.	0.6	23
79	Design of novel catalysts for synthesis of 1,5-benzodiazepines from 1,2-phenylenediamine and ketones: NH2-MIL-101(Al) as integrated structural scaffold for catalytic materials based on calix[4]arenes. Journal of Catalysis, 2019, 369, 60-71.	3.1	23
80	Heterogeneous iron-containing nanocatalysts â€“ promising systems for selective hydrogenation and hydrogenolysis. Catalysis Science and Technology, 2020, 10, 3160-3174.	2.1	23
81	Activity of Au, Ni, and Au-Ni catalysts in the water-gas shift reaction and carbon monoxide oxidation. Kinetics and Catalysis, 2014, 55, 311-318.	0.3	22
82	Study of the Nature of Acid Sites of Montmorillonites Pillared with Aluminium and Oligosilsesquioxane Complex Cations. 1. BrÃ¶nsted Acidity. Clays and Clay Minerals, 1994, 42, 421-427.	0.6	21
83	Oxidative coupling of methane in the redox cyclic mode over the catalysts on the basis of CeO2 and La2O3. Mendeleev Communications, 2010, 20, 28-30.	0.6	21
84	Water as an Inhibitor of Metal Corrosion in Hydrophobic Ionic Liquids. Journal of Physical Chemistry C, 2012, 116, 22526-22531.	1.5	21
85	Hydrogenation of carbon dioxide: a comparison of different types of active catalysts. Mendeleev Communications, 2014, 24, 349-350.	0.6	21
86	Interaction of vanadium containing catalysts with microwaves and their activation in oxidative dehydrogenation of ethane. Catalysis Today, 2009, 141, 300-305.	2.2	20
87	Toxicity of metal nanoparticles with a focus on silver. Mendeleev Communications, 2013, 23, 59-65.	0.6	20
88	Microwave-assisted synthesis of mesoporous metal-organic framework NH2â€”MIL-101(Al). Russian Chemical Bulletin, 2015, 64, 2791-2795.	0.4	20
89	Template-free one-step synthesis of micro-mesoporous CeO2â€“ZrO2 mixed oxides with a high surface area for selective hydrogenation. Ceramics International, 2020, 46, 13980-13988.	2.3	20
90	Influence of support acidity on electronic state of platinum in oxide systems promoted by SO4 2â˜ anions. Russian Chemical Bulletin, 1998, 47, 1061-1066.	0.4	19

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91	Nanogold-Containing Catalysts for Low-Temperature Removal of S-VOC from Air. Topics in Catalysis, 2009, 52, 351-358.	1.3	19
92	Surface State of Sacrificial Copper Electrode by Electropolishing in Hydrophobic Ionic Liquid 1-Butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. ACS Applied Materials & Interfaces, 2013, 5, 10551-10558.	4.0	19
93	Ultra-Small Pd Nanoparticles on Ceria as an Advanced Catalyst for CO Oxidation. Catalysts, 2019, 9, 385.	1.6	19
94	Novel Fe-Pd/SiO2 catalytic materials for degradation of chlorinated organic compounds in water. Pure and Applied Chemistry, 2014, 86, 1141-1158.	0.9	18
95	The role of initial hexagonal self-ordering in anodic nanotube growth in ionic liquid. Electrochemistry Communications, 2017, 75, 78-81.	2.3	18
96	Hydrogen storage in organosilicon ionic liquids. International Journal of Hydrogen Energy, 2020, 45, 33807-33817.	3.8	18
97	Platinum-containing catalyst supported on a metal-organic framework structure in the selective oxidation of benzyl alcohol derivatives into aldehydes. Kinetics and Catalysis, 2011, 52, 273-276.	0.3	17
98	Effect of the support morphology on the performance of Co nanoparticles deposited on metalâ€“organic framework MIL-53(Al) in Fischerâ€“Tropsch synthesis. Polyhedron, 2019, 157, 389-395.	1.0	17
99	Palladium nanoparticles embedded in MOF matrices: Catalytic activity and structural stability in iodobenzene methoxycarbonylation. Polyhedron, 2019, 158, 55-64.	1.0	17
100	Alkane activation by silica supported Group VB metal hydrides. A quantum-chemical study. Russian Chemical Bulletin, 2005, 54, 300-311.	0.4	16
101	Kinetics of decalin dehydrogenation on Pt/C catalyst. Russian Chemical Bulletin, 2015, 64, 2642-2645.	0.4	16
102	Mass spectrometric studies of 1â€ethylâ€3â€methylimidazolium and 1â€propylâ€2,3â€dimethylimidazolium bis(trifluoromethyl)â€sulfonylimides. Rapid Communications in Mass Spectrometry, 2015, 29, 1227-1232.	0.7	16
103	Reduction of carbon dioxide with hydrogen on a CuOâ€“ZnO mixed catalyst under supercritical conditions. Mendeleev Communications, 2015, 25, 446-448.	0.6	16
104	Carbon Dioxide Hydrogenation on Au Nanoparticles Supported on TiO2, ZrO2 and Sulfated ZrO2 Under Supercritical Conditions. Topics in Catalysis, 2016, 59, 1104-1109.	1.3	16
105	Thermal decomposition and reducibility of silica-supported precursors of Cu, Fe and Cuâ€“Fe nanoparticles. Journal of Thermal Analysis and Calorimetry, 2018, 134, 233-251.	2.0	16
106	Ceâ€“Zr materials with a high surface area as catalyst supports for hydrogenation of CO₂. Functional Materials Letters, 2020, 13, 2040004.	0.7	16
107	Processing of lignocellulosic polymer wastes using microwave irradiation. Mendeleev Communications, 2022, 32, 1-8.	0.6	16
108	The state of metals in the supported bimetallic Ptâ^'Pd/SO4/ZrO2 system. Russian Chemical Bulletin, 1999, 48, 1255-1260.	0.4	15

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109	Comparative study on dehydrogenation of bulky, branched and polycondensed naphthenes for hydrogen storage in microwave and thermal modes. International Journal of Hydrogen Energy, 2008, 33, 4116-4121.	3.8	15
110	Ionic liquids based on imidazolium tetrafluoroborate for the removal of aromatic sulfur-containing compounds from hydrocarbon mixtures. Green Chemistry, 2010, 12, 346.	4.6	15
111	Novel metal-organic 1-D Ñoordination polymer based on pyrazine-2,5-dicarboxylate ligands: synthesis and structure investigation. Inorganica Chimica Acta, 2011, 376, 367-372.	1.2	15
112	Intermetallide catalysts for hydrogen storage on the basis ofÂreversible aromatics hydrogenation/dehydrogenation reactions. International Journal of Hydrogen Energy, 2013, 38, 5713-5716.	3.8	15
113	Effect of the conditions of preparing mixed oxide catalyst of Mo-V-Te-Nb-O composition on its activity in the oxidative dehydrogenation of ethane. Russian Journal of Physical Chemistry A, 2013, 87, 1983-1988.	0.1	15
114	Self-Organized Hexagonal Nanostructures on Nickel and Steel Formed by Anodization in 1-Butyl-3-methylimidazolium bis(triflate)imide Ionic Liquid. Journal of Physical Chemistry C, 2014, 118, 21293-21298.	1.5	15
115	Application of silica-supported Feâ€“Cu nanoparticles in the selective hydrogenation of p-dinitrobenzene to p-phenylenediamine. Russian Journal of Physical Chemistry A, 2017, 91, 201-204.	0.1	15
116	Selective Hydrogenation of Acetylene and Physicochemical Properties of Pdâ€“Fe/Al2O3 Bimetallic Catalysts. Russian Journal of Physical Chemistry A, 2018, 92, 862-869.	0.1	15
117	Carbon Dioxide Reduction with Hydrogen on Carbonâ€Nanotubeâ€Supported Catalysts under Supercritical Conditions. Energy Technology, 2019, 7, 1900174.	1.8	15
118	Hydrothermal microwaveâ€assisted synthesis of LaFeO₃ catalyst for N₂O decomposition. Journal of the American Ceramic Society, 2021, 104, 492-503.	1.9	15
119	New evidence for the electronic nature of the strong metal-support interaction effect over a Pt/TiO2 hydrogenation catalyst. Mendeleev Communications, 2001, 11, 186-188.	0.6	14
120	Oxo/imido heterometathesis of N-sulfinylamines and carbonyl compounds catalyzed by silica-supported vanadium oxochloride. Journal of Catalysis, 2011, 283, 108-118.	3.1	14
121	1,3-Butadiene Adsorption over Transition Metal Polycation Exchanged Faujasites. Industrial & Engineering Chemistry Research, 2012, 51, 7073-7080.	1.8	14
122	Carboxylation of phenylacetylene by carbon dioxide on heterogeneous Ag-containing catalysts. Russian Chemical Bulletin, 2014, 63, 2652-2656.	0.4	14
123	Gold nanoparticles in environmental catalysis: Influence of the Fe-modified alumina supports on the catalytic behavior of supported gold nanoparticles in CO oxidation in the presence of ammonia. Chemical Engineering Journal, 2016, 292, 62-71.	6.6	14
124	Adsorption of methane on an MOF-199 organometallic framework structure at high pressures in the range of supercritical temperatures. Protection of Metals and Physical Chemistry of Surfaces, 2016, 52, 24-29.	0.3	14
125	Nickelâ€“Alumina Catalysts in the Reaction of Carbon Dioxide Re-Forming of Methane under Thermal and Microwave Heating. Industrial & Engineering Chemistry Research, 2017, 56, 13034-13039.	1.8	14
126	Hydrogenation of naphthalene and anthracene on Pt/C catalysts. Russian Chemical Bulletin, 2018, 67, 1406-1411.	0.4	14

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127	Dehydrogenation of propane in the presence of CO2 on Cr(3%)/SiO2 catalyst under supercritical conditions. Mendeleev Communications, 2020, 30, 195-197.	0.6	14
128	Electrochemical Synthesis of Unique Nanomaterials in Ionic Liquids. Nanomaterials, 2021, 11, 3270.	1.9	14
129	Formation of palladium hydride nanoparticles in Pd/C catalyst as evidenced by in situ XAS data. Russian Chemical Bulletin, 2009, 58, 280-283.	0.4	13
130	Comparing the activities of catalysts in perhydro-m-terphenyl dehydrogenation. Catalysis in Industry, 2015, 7, 60-63.	0.3	13
131	Ethane oxidative dehydrogenation to ethylene in a membrane reactor with asymmetric ceramic membranes. Chemical Engineering and Processing: Process Intensification, 2018, 126, 150-155.	1.8	13
132	Direct hydrogenation of CO2 on deposited iron-containing catalysts under supercritical conditions. Mendeleev Communications, 2018, 28, 147-149.	0.6	13
133	Synergistic effect of metal components of the low-loaded Pt-Ni-Cr/C catalyst in the bicyclohexyl dehydrogenation reaction. International Journal of Hydrogen Energy, 2021, 46, 14532-14539.	3.8	13
134	A new method for the synthesis of nitriles enriched with the15N isotope. Russian Chemical Bulletin, 1994, 43, 402-404.	0.4	12
135	Copper Complexes Stabilized by Chitosans: Peculiarities of the Structure, Redox, and Catalytic Properties. Kinetics and Catalysis, 2003, 44, 793-800.	0.3	12
136	Study of Palladium Complexes with Chitosan and Its Derivatives as Potential Catalysts for Terminal Olefin Oxidation. Kinetics and Catalysis, 2004, 45, 743-751.	0.3	12
137	Direct d-Glucose Oxidation over Noble Metal Nanoparticles Introduced on Polymer and Inorganic Supports. Topics in Catalysis, 2009, 52, 387-393.	1.3	12
138	Acidic and catalytic properties of silica modified by iron oxide nanoparticles. Catalysis Today, 2010, 152, 48-53.	2.2	12
139	One-dimensional heterogeneous model of a Fischer-Tropsch synthesis reactor with a fixed catalyst bed in the isothermal granules approximation. Catalysis in Industry, 2013, 5, 223-231.	0.3	12
140	Oxidation of Carbon Monoxide over MLaO_x Perovskites Supported on Mesoporous Zirconia. ChemCatChem, 2014, 6, 1990-1997.	1.8	12
141	Hydrogenation of biphenyl and isomeric terphenyls over a Pt-containing catalyst. Russian Chemical Bulletin, 2017, 66, 1208-1212.	0.4	12
142	Silica-supported iron oxide nanoparticles: unexpected catalytic activity in hydrogenation of phenylacetylene. Mendeleev Communications, 2017, 27, 512-514.	0.6	12
143	Microwave-Assisted Synthesis of Water-Dispersible Humate-Coated Magnetite Nanoparticles: Relation of Coating Process Parameters to the Properties of Nanoparticles. Nanomaterials, 2020, 10, 1558.	1.9	12
144	Impact of the Preparation Procedure on the Performance of the Microporous HKUST-1 Metal-Organic Framework in the Liquid-Phase Separation of Aromatic Compounds. Molecules, 2020, 25, 2648.	1.7	12

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145	Recent progress in hydrogenation of esters on heterogeneous bimetallic catalysts. Catalysis Science and Technology, 2021, 11, 7229-7238.	2.1	12
146	Isomerization of cyclic hydrocarbons mediated by an AlCl3-based ionic liquid as catalyst. Reaction Kinetics and Catalysis Letters, 2003, 80, 329-335.	0.6	11
147	Title is missing!. Russian Chemical Bulletin, 2003, 52, 30-35.	0.4	11
148	Interaction of Cinchonidine and 1-Phenyl-1,2-Propanedione on the Surface of a Chirally Modified Pt/Al2O3Hydrogenation Catalyst. Journal of Physical Chemistry C, 2007, 111, 9374-9383.	1.5	11
149	The structure of active sites in a molybdenum/zeolite catalyst for methane dehydroaromatization: a DFT study. Russian Chemical Bulletin, 2013, 62, 1967-1973.	0.4	11
150	Oxidative dehydrogenation of C2â€“C4 alkanes into alkenes: Conventional catalytic systems and microwave catalysis. Russian Journal of Physical Chemistry A, 2013, 87, 345-351.	0.1	11
151	Microwave-assisted conversion of lignin into aromatic compounds. Russian Journal of Organic Chemistry, 2015, 51, 1677-1680.	0.3	11
152	Effect of the structure of the ortho, meta, and para isomers of perhydroterphenyl on their reactivity in heterogeneous catalytic dehydrogenation. Kinetics and Catalysis, 2016, 57, 219-223.	0.3	11
153	Influence of the thermal treatment conditions and composition of bimetallic catalysts Feâ€”Pd/SiO2 on the catalytic properties in phenylacetylene hydrogenation. Russian Chemical Bulletin, 2016, 65, 432-439.	0.4	11
154	Silica-supported copper nanoparticles as efficient catalysts for the liquid-phase selective hydrogenation of p-dinitrobenzene by molecular hydrogen. Russian Chemical Bulletin, 2016, 65, 2850-2854.	0.4	11
155	Novel Feâ€“Pd/Î³-Al2O3 catalysts for the selective hydrogenation of Câ‰¡C bonds under mild conditions. Mendeleev Communications, 2019, 29, 339-342.	0.6	11
156	Thermal analysis of intermediates formed during preparation of a Pt/WOx/Al2O3 catalyst for 1,3-propanediol synthesis from glycerol. Journal of Thermal Analysis and Calorimetry, 2019, 138, 2205-2218.	2.0	11
157	Influence of the porous structure and functionality of the MIL type metal-organic frameworks and carbon matrices on the adsorption of 2,4-dichlorophenoxyacetic acid. Russian Chemical Bulletin, 2021, 70, 67-74.	0.4	11
158	Heterogeneous additiveâ€free highly selective synthesis of 2,5â€bis(hydroxymethyl)furan over catalysts with ultraâ€low <scp>Pt</scp> content. Journal of Chemical Technology and Biotechnology, 2021, 96, 2421-2425.	1.6	11
159	Carbon Dioxide Reduction with Hydrogen on Fe, Co Supported Alumina and Carbon Catalysts under Supercritical Conditions. Molecules, 2021, 26, 2883.	1.7	11
160	Effect of electron beam-irradiation on the structure and catalytic performance of Pd nanoparticles supported on Al2O3 and carbon. Mendeleev Communications, 2006, 16, 254-256.	0.6	10
161	Comparison of activities of bulk and monolith Mnâ€“Na2WO4/SiO2 catalysts in oxidative coupling of methane. Mendeleev Communications, 2009, 19, 337-339.	0.6	10
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