Dmitry Yu Murzin

List of Publications by Year
in descending order

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806	23,330	13099 68	23533 111
papers	citations	h-index	g-index

834	834	834	15672
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Heterogeneous Catalytic Deoxygenation of Stearic Acid for Production of Biodiesel. Industrial & Engineering Chemistry Research, 2006, 45, 5708-5715.	3.7	577
2	Chemoselective hydrogenation of carbonyl compounds over heterogeneous catalysts. Applied Catalysis A: General, 2005, 292, 1-49.	4.3	557
3	Catalytic pyrolysis of woody biomass in a fluidized bed reactor: Influence of the zeolite structure. Fuel, 2008, 87, 2493-2501.	6.4	404
4	Production of Lactic Acid/Lactates from Biomass and Their Catalytic Transformations to Commodities. Chemical Reviews, 2014, 114, 1909-1971.	47.7	367
5	Hydrocarbons for diesel fuel via decarboxylation of vegetable oils. Catalysis Today, 2005, 106, 197-200.	4.4	351
6	Synthesis of Sugars by Hydrolysis of Hemicelluloses- A Review. Chemical Reviews, 2011, 111, 5638-5666.	47.7	350
7	Catalytic Deoxygenation of Fatty Acids and Their Derivatives. Energy & Fuels, 2007, 21, 30-41.	5.1	315
8	Catalytic deoxygenation of unsaturated renewable feedstocks for production of diesel fuel hydrocarbons. Fuel, 2008, 87, 933-945.	6.4	313
9	Recent Progress in Synthesis of Fine and Specialty Chemicals from Wood and Other Biomass by Heterogeneous Catalytic Processes. Catalysis Reviews - Science and Engineering, 2007, 49, 197-340.	12.9	250
10	Transforming Triglycerides and Fatty Acids into Biofuels. ChemSusChem, 2009, 2, 1109-1119.	6.8	232
11	Asymmetric Heterogeneous Catalysis: Science and Engineering. Catalysis Reviews - Science and Engineering, 2005, 47, 175-256.	12.9	231
12	Deoxygenation of palmitic and stearic acid over supported Pd catalysts: Effect of metal dispersion. Applied Catalysis A: General, 2009, 355, 100-108.	4.3	209
13	Mesoporous silica material TUD-1 as a drug delivery system. International Journal of Pharmaceutics, 2007, 331, 133-138.	5.2	202
14	Deactivation of postcombustion catalysts, a review. Fuel, 2004, 83, 395-408.	6.4	176
15	High Performances of Pt/ZnO Catalysts in Selective Hydrogenation of Crotonaldehyde. Journal of Catalysis, 1999, 188, 165-175.	6.2	171
16	Esterification of different acids over heterogeneous and homogeneous catalysts and correlation with the Taft equation. Journal of Molecular Catalysis A, 2002, 182-183, 555-563.	4.8	171
17	Evaluation of Mesoporous TCPSi, MCM-41, SBA-15, and TUD-1 Materials as API Carriers for Oral Drug Delivery. Drug Delivery, 2007, 14, 337-347.	5.7	169
18	Production of diesel fuel from renewable feeds: Kinetics of ethyl stearate decarboxylation. Chemical Engineering Journal, 2007, 134, 29-34.	12.7	160

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19	Drug Delivery Formulations of Ordered and Nonordered Mesoporous Silica: Comparison of Three Drug Loading Methods. Journal of Pharmaceutical Sciences, 2011, 100, 3294-3306.	3.3	144
20	Catalytic upgrading of woody biomass derived pyrolysis vapours over iron modified zeolites in a dual-fluidized bed reactor. Fuel, 2010, 89, 1992-2000.	6.4	139
21	Catalytic Pyrolysis of Biomass in a Fluidized Bed Reactor. Chemical Engineering Research and Design, 2007, 85, 473-480.	5.6	137
22	Ring opening of decalin over zeolitesI. Activity and selectivity of proton-form zeolites. Journal of Catalysis, 2004, 222, 65-79.	6.2	131
23	Failure of MTT as a Toxicity Testing Agent for Mesoporous Silicon Microparticles. Chemical Research in Toxicology, 2007, 20, 1913-1918.	3.3	129
24	Continuous decarboxylation of lauric acid over Pd/C catalyst. Fuel, 2008, 87, 3543-3549.	6.4	129
25	Metalâ"Support Interactions in Zeolite-Supported Noble Metals:Â Influence of Metal Crystallites on the Support Acidity. Journal of Physical Chemistry B, 2006, 110, 4937-4946.	2.6	127
26	Ultrasound enhancement of cellulose processing in ionic liquids: from dissolution towards functionalization. Green Chemistry, 2007, 9, 1229.	9.0	126
27	Toward Improved Catalytic Low-Temperature NOx Removal in Diesel-Powered Vehicles. Accounts of Chemical Research, 2006, 39, 273-282.	15.6	124
28	Ring opening of decalin over zeolitesII. Activity and selectivity of platinum-modified zeolites. Journal of Catalysis, 2004, 227, 313-327.	6.2	123
29	Catalytic Deoxygenation of Stearic Acid in a Continuous Reactor over a Mesoporous Carbon-Supported Pd Catalyst. Energy & Fuels, 2009, 23, 3842-3845.	5.1	123
30	Review on hydrodynamics and mass transfer in minichannel wall reactors with gasâ€"liquid Taylor flow. Chemical Engineering Research and Design, 2016, 113, 304-329.	5.6	119
31	Decarboxylation of fatty acids over Pd supported on mesoporous carbon. Catalysis Today, 2010, 150, 28-31.	4.4	117
32	On the mechanism of the selective catalytic reduction of NO with higher hydrocarbons over a silver/alumina catalyst. Journal of Catalysis, 2004, 227, 328-343.	6.2	114
33	Synthesis of Biodiesel via Deoxygenation of Stearic Acid over Supported Pd/C Catalyst. Catalysis Letters, 2008, 122, 247-251.	2.6	114
34	Catalytic Deoxygenation of Stearic Acid and Palmitic Acid in Semibatch Mode. Catalysis Letters, 2009, 130, 48-51.	2.6	110
35	Effect of catalyst synthesis parameters on the metal particle size. Applied Catalysis A: General, 2013, 451, 251-281.	4.3	106
36	Support effects in hydrogenation of cinnamaldehyde over carbon nanofiber-supported platinum catalysts: Kinetic modeling. Chemical Engineering Science, 2005, 60, 5682-5695.	3.8	105

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37	Influence of Hydrogen in Catalytic Deoxygenation of Fatty Acids and Their Derivatives over Pd/C. Industrial & Engineering Chemistry Research, 2012, 51, 8922-8927.	3.7	105
38	Reaction Products and Transformations of Intermediates in the Aqueousâ€Phase Reforming of Sorbitol. ChemSusChem, 2010, 3, 708-718.	6.8	94
39	Cyclization of citronellal over zeolites and mesoporous materials for production of isopulegol. Journal of Catalysis, 2004, 225, 155-169.	6.2	93
40	Deoxygenation of dodecanoic acid under inert atmosphere. Fuel, 2010, 89, 2033-2039.	6.4	93
41	Stabilities of C3â€“C5 alkoxide species inside H-FER zeolite: a hybrid QM/MM study. Journal of Catalysis, 2005, 231, 393-404.	6.2	91
42	Diesel-like Hydrocarbons from Catalytic Deoxygenation of Stearic Acid over Supported Pd Nanoparticles on SBA-15 Catalysts. Catalysis Letters, 2010, 134, 250-257.	2.6	91
43	Melamine-derived graphitic carbon nitride as a new effective metal-free catalyst for Knoevenagel condensation of benzaldehyde with ethylcyanoacetate. Catalysis Science and Technology, 2018, 8, 2928-2937.	4.1	91
44	Kinetics of starch oxidation using hydrogen peroxide as an environmentally friendly oxidant and an iron complex as a catalyst. Chemical Engineering Journal, 2009, 154, 52-59.	12.7	89
45	Sulfur-free Ni catalyst for production of green diesel by hydrodeoxygenation. Journal of Catalysis, 2017, 347, 205-221.	6.2	89
46	Synthesis of Dimethyl Carbonate from Methanol and Carbon Dioxide: Circumventing Thermodynamic Limitations. Industrial & Engineering Chemistry Research, 2010, 49, 9609-9617.	3.7	88
47	Kinetics of esterification of propanoic acid with methanol over a fibrous polymer-supported sulphonic acid catalyst. Applied Catalysis A: General, 2002, 228, 253-267.	4.3	87
48	Cytotoxicity study of ordered mesoporous silica MCM-41 and SBA-15 microparticles on Caco-2 cells. European Journal of Pharmaceutics and Biopharmaceutics, 2010, 74, 483-494.	4.3	87
49	Aqueous phase reforming of xylitol and sorbitol: Comparison and influence of substrate structure. Applied Catalysis A: General, 2012, 435-436, 172-180.	4.3	86
50	Hydrodeoxygenation of Lignin-Derived Phenols: From Fundamental Studies towards Industrial Applications. Catalysts, 2017, 7, 265.	3.5	85
51	A route to produce renewable diesel from algae: Synthesis and characterization of biodiesel via in situ transesterification of Chlorella alga and its catalytic deoxygenation to renewable diesel. Fuel, 2015, 155, 144-154.	6.4	84
52	Supported ionic liquidscatalysts for fine chemicals: citral hydrogenation. Green Chemistry, 2006, 8, 197-205.	9.0	83
53	Ring opening of decalin over zeolitesII. Activity and selectivity of platinum-modified zeolites. Journal of Catalysis, 2004, 227, 313-327.	6.2	82
54	Conventional synthesis methods of short-chain dialkylcarbonates and novel production technology via direct route from alcohol and waste CO2. Applied Catalysis A: General, 2010, 383, 1-13.	4.3	82

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55	Catalytic Deoxygenation of Tall Oil Fatty Acid over Palladium Supported on Mesoporous Carbon. Energy & Fuels, 2011, 25, 2815-2825.	5.1	82
56	Ruthenium-modified MCM-41 mesoporous molecular sieve and Y zeolite catalysts for selective hydrogenation of cinnamaldehyde. Applied Catalysis A: General, 2003, 251, 385-396.	4.3	80
57	Continuous reduction of NO with octane over a silver/alumina catalyst inÂoxygen-rich exhaust gases: combined heterogeneous and surface-mediated homogeneous reactions. Journal of Catalysis, 2003, 219, 25-40.	6.2	79
58	Liquid phase hydrogenation of citral: suppression of side reactions. Applied Catalysis A: General, 2002, 237, 181-200.	4.3	78
59	Thermodynamic analysis of nanoparticle size effect on catalytic kinetics. Chemical Engineering Science, 2009, 64, 1046-1052.	3.8	78
60	Influence of the support composition and acidity on the catalytic properties of mesoporous SBA-15, Al-SBA-15, and Al2O3-supported Pt catalysts for cinnamaldehyde hydrogenation. Journal of Catalysis, 2011, 282, 228-236.	6.2	78
61	Hydrodeoxygenation of stearic acid and tall oil fatty acids over Ni-alumina catalysts: Influence of reaction parameters and kinetic modelling. Chemical Engineering Journal, 2017, 316, 401-409.	12.7	78
62	Acyl Group Migration and Cleavage in Selectively Protected Î²-<scp>d</scp>-Galactopyranosides as Studied by NMR Spectroscopy and Kinetic Calculations. Journal of the American Chemical Society, 2008, 130, 8769-8772.	13.7	77
63	Imidazoliumâ€Based Poly(ionic liquid)s as New Alternatives for CO₂ Capture. ChemSusChem, 2013, 6, 1500-1509.	6.8	75
64	Liquid phase hydrogenation of nitrobenzene. Applied Catalysis A: General, 2015, 499, 66-76.	4.3	74
65	Liquid-phase hydrogenation of citral for production of citronellol: catalyst selection. Applied Catalysis A: General, 2003, 241, 271-288.	4.3	73
66	From renewable raw materials to high value-added fine chemicalsâ€”Catalytic hydrogenation and oxidation of d-lactose. Catalysis Today, 2007, 121, 92-99.	4.4	73
67	Kinetic analysis of cluster size dependent activity and selectivity. Journal of Catalysis, 2010, 276, 85-91.	6.2	73
68	Hydrodeoxygenation of vanillin over carbon supported metal catalysts. Applied Catalysis A: General, 2018, 561, 137-149.	4.3	73
69	Selective hydrogenation of fatty acids to alcohols over highly dispersed ReO /TiO2 catalyst. Journal of Catalysis, 2015, 328, 197-207.	6.2	72
70	Enantioselective Hydrogenation of 1-Phenyl-1,2-propanedione. Journal of Catalysis, 2001, 204, 281-291.	6.2	67
71	Reaction kinetics and modelling of the gold catalysed glycerol oxidation. Topics in Catalysis, 2007, 44, 299-305.	2.8	66
72	Chemical Characterization of Lube Oils. Energy & Fuels, 2013, 27, 27-34.	5.1	66

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73	Isomerization of Î±-Pinene over Clinoptilolite. Journal of Catalysis, 1999, 185, 352-362.	6.2	65
74	d-Lactose oxidation over gold catalysts. Catalysis Today, 2008, 131, 385-392.	4.4	65
75	Catalytic Deoxygenation of Tall Oil Fatty Acids Over a Palladium-Mesoporous Carbon Catalyst: A New Source of Biofuels. Topics in Catalysis, 2010, 53, 1274-1277.	2.8	65
76	Intensification of hemicellulose hot-water extraction from spruce wood in a batch extractor â€“ Effects of wood particle size. Bioresource Technology, 2013, 143, 212-220.	9.6	65
77	Solvent effects in enantioselective hydrogenation of 1-phenyl-1,2-propanedione. Journal of Molecular Catalysis A, 2003, 192, 135-151.	4.8	64
78	Catalytic Deoxygenation of C18 Fatty Acids Over Mesoporous Pd/C Catalyst for Synthesis of Biofuels. Topics in Catalysis, 2011, 54, 460-466.	2.8	64
79	Sugar hydrogenation over a Ru/C catalyst. Journal of Chemical Technology and Biotechnology, 2011, 86, 658-668.	3.2	64
80	Selective hydrodeoxygenation of biomass derived 5-hydroxymethylfurfural over silica supported iridium catalysts. Applied Catalysis B: Environmental, 2019, 241, 270-283.	20.2	64
81	Isomerization of linoleic acid over supported metal catalysts. Applied Catalysis A: General, 2003, 245, 257-275.	4.3	63
82	Pyrolysis of pine and gasification of pine chars â€“ Influence of organically bound metals. Bioresource Technology, 2013, 128, 22-29.	9.6	63
83	A New Heterogeneously Catalytic Pathway for Isomerization of Linoleic Acid over Ru/C and Ni/Hâ€“MCM-41 Catalysts. Journal of Catalysis, 2002, 210, 354-366.	6.2	62
84	The role of bio-ethanol in aqueous phase reforming to sustainable hydrogen. International Journal of Hydrogen Energy, 2010, 35, 12642-12649.	7.1	62
85	Silver/Alumina Catalyst for Selective Catalytic Reduction of NO_xto N₂by Hydrocarbons in Diesel Powered Vehicles. Topics in Catalysis, 2004, 28, 185-189.	2.8	61
86	Kinetics of Aqueous Extraction of Hemicelluloses from Spruce in an Intensified Reactor System. Industrial & Engineering Chemistry Research, 2011, 50, 3818-3828.	3.7	61
87	Hydrodeoxygenation of vanillin over noble metal catalyst supported on biochars: Part II: Catalytic behaviour. Applied Catalysis B: Environmental, 2020, 268, 118425.	20.2	61
88	A kinetic treatment of the gas phase hydrodechlorination of chlorobenzene over nickel/silica: beyond conventional kinetics. Chemical Engineering Science, 2001, 56, 3185-3195.	3.8	60
89	Utilization of electromagnetic and acoustic irradiation in enhancing heterogeneous catalytic reactions. Applied Catalysis A: General, 2005, 279, 1-22.	4.3	60
90	Solvent controlled catalysis: Synthesis of aldehyde, acid or ester by selective oxidation of benzyl alcohol with gold nanoparticles on alumina. Applied Catalysis A: General, 2014, 485, 202-206.	4.3	60

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91	Structure sensitivity in catalytic hydrogenation of glucose over ruthenium. Catalysis Today, 2015, 241, 195-199.	4.4	60
92	Valorization of cellulose over metal supported mesoporous materials. Catalysis Today, 2011, 167, 91-95.	4.4	59
93	Particle size effect in liquid-phase hydrogenation of phenylacetylene over Pd catalysts: Experimental data and theoretical analysis. Chemical Engineering Journal, 2019, 358, 520-530.	12.7	59
94	Size-dependent heterogeneous catalytic kinetics. Journal of Molecular Catalysis A, 2010, 315, 226-230.	4.8	58
95	Comparative study of sulfur-free nickel and palladium catalysts in hydrodeoxygenation of different fatty acid feedstocks for production of biofuels. Catalysis Science and Technology, 2016, 6, 1476-1487.	4.1	58
96	Hydrogenation of Vegetable Oils over Pd on Nanocomposite Carbon Catalysts. Industrial & Engineering Chemistry Research, 2008, 47, 7219-7225.	3.7	57
97	Pyrolysis of Softwood Carbohydrates in a Fluidized Bed Reactor. International Journal of Molecular Sciences, 2008, 9, 1665-1675.	4.1	57
98	Acid hydrolysis of xylan. Catalysis Today, 2016, 259, 376-380.	4.4	57
99	Comparative study of the extraction methods for recovery of carotenoids from algae: extraction kinetics and effect of different extraction parameters. Journal of Chemical Technology and Biotechnology, 2014, 89, 1607-1626.	3.2	56
100	XPS analysis of chlorine residues in supported Pt and Pd catalysts with low metal loading. Applied Catalysis A: General, 2003, 247, 283-294.	4.3	55
101	Isomerization of Î±-pinene oxide using Fe-supported catalysts: Selective synthesis of campholenic aldehyde. Applied Catalysis A: General, 2014, 470, 162-176.	4.3	55
102	Direct amination of dodecanol with NH3 over heterogeneous catalysts. Catalyst screening and kinetic modelling. Chemical Engineering Journal, 2017, 307, 739-749.	12.7	55
103	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.	4.1	54
104	Simple method for preparing of sulfurâ€“doped graphitic carbon nitride with superior activity in CO₂ photoreduction. ChemistrySelect, 2016, 1, 4987-4993.	1.5	54
105	â€œDoubleâ€Peakâ€•Catalytic Activity of Nanosized Gold Supported on Titania in Gasâ€Phase Selective Oxidation of Ethanol. ChemCatChem, 2010, 2, 1535-1538.	3.7	53
106	Selective vapour-phase Î±-pinene isomerization to camphene over gold-on-alumina catalyst. Applied Catalysis A: General, 2010, 385, 136-143.	4.3	53
107	Catalysis in biomass processing. Catalysis in Industry, 2011, 3, 218-249.	0.7	52
108	Low temperature gas-phase oxidation of ethanol over Au/TiO2. Applied Catalysis A: General, 2012, 433-434, 88-95.	4.3	52

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109	Aqueous phase reforming of xylitol over Pt-Re bimetallic catalyst: Effect of the Re addition. Catalysis Today, 2014, 223, 97-107.	4.4	52
110	Kinetics of Î±-Pinene Isomerization. Industrial & Engineering Chemistry Research, 1998, 37, 2373-2377.	3.7	51
111	Catalytic Hydroisomerization of Long-Chain Hydrocarbons for the Production of Fuels. Catalysts, 2018, 8, 534.	3.5	51
112	Overview of catalytic methods for production of next generation biodiesel from natural oils and fats. Russian Journal of Physical Chemistry B, 2009, 3, 1035-1043.	1.3	50
113	Physicochemical stability of high indomethacin payload ordered mesoporous silica MCM-41 and SBA-15 microparticles. International Journal of Pharmaceutics, 2011, 416, 242-51.	5.2	50
114	Isomerization of Î±-pinene over ion-exchanged natural zeolites. Chemical Engineering Journal, 2003, 91, 257-269.	12.7	49
115	The Effect of Alkoxide Ionic Liquids on the Synthesis of Dimethyl Carbonate from CO2 and Methanol over ZrO2â€“MgO. Catalysis Letters, 2011, 141, 1254-1261.	2.6	49
116	Modeling of kinetics and stereoselectivity in liquid-phase Î±-pinene hydrogenation over Pd/C. Applied Catalysis A: General, 2009, 356, 216-224.	4.3	48
117	NMR and molecular modeling of the dimeric self-association of the enantiomers of 1,1â€²-bi-2-naphthol and 1-phenyl-2,2,2-trifluoroethanol in the solution state and their relevance to enantiomer self-disproportionation on achiral-phase chromatography (ESDAC). Organic and Biomolecular Chemistry, 2009, 7, 537-542.	2.8	48
118	Enhanced yields of diethyl carbonate via one-pot synthesis from ethanol, carbon dioxide and butylene oxide over cerium (IV) oxide. Chemical Engineering Journal, 2011, 176-177, 124-133.	12.7	48
119	Catalytic Pyrolysis of Pine Biomass Over H-Beta Zeolite in a Dual-Fluidized Bed Reactor: Effect of Space Velocity on the Yield and Composition of Pyrolysis Products. Topics in Catalysis, 2011, 54, 941-948.	2.8	48
120	CO2 removal with â€˜switchableâ€™ versus â€˜classicalâ€™ ionic liquids. Separation and Purification Technology, 2012, 97, 42-50.	7.9	48
121	Effect of synthesis time and mode of stirring on physico-chemical and catalytic properties of ZSM-5 zeolite catalysts. Applied Catalysis A: General, 2002, 235, 113-123.	4.3	47
122	Spruce Hemicellulose for Chemicals Using Aqueous Extraction: Kinetics, Mass Transfer, and Modeling. Industrial & Engineering Chemistry Research, 2014, 53, 6341-6350.	3.7	47
123	Kinetics of ethylbenzene hydrogenation on Ni/Al2O3. Applied Catalysis A: General, 1995, 125, 271-291.	4.3	46
124	Catalysts based on platinumâ€“tin and platinumâ€“gallium in close contact for the selective hydrogenation of cinnamaldehyde. Journal of Catalysis, 2009, 263, 146-154.	6.2	46
125	Kinetics and modeling of 1-phenyl-1,2-propanedione hydrogenation. Journal of Catalysis, 2003, 213, 7-16.	6.2	45
126	Catalytic pyrolysis of low density polyethylene over H-Î², H-Y, H-Mordenite, and H-Ferrierite zeolite catalysts: Influence of acidity and structures. Kinetics and Catalysis, 2007, 48, 535-540.	1.0	45

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127	Zeta Potential of Beta Zeolites: Influence of Structure, Acidity, pH, Temperature and Concentration. Molecules, 2018, 23, 946.	3.8	45
128	Preparation and Characterisation of Ag/Alumina Catalysts for the Removal of NO_xEmissions Under Oxygen Rich Conditions. Topics in Catalysis, 2004, 30/31, 91-95.	2.8	44
129	Selective Hydrolysis of Arabinogalactan into Arabinose and Galactose Over Heterogeneous Catalysts. Catalysis Letters, 2011, 141, 408-412.	2.6	44
130	Synthesis and characterization of solid base mesoporous and microporous catalysts: Influence of the support, structure and type of base metal. Microporous and Mesoporous Materials, 2012, 152, 71-77.	4.4	44
131	Technology for rerefining used lube oils applied in Europe: a review. Journal of Chemical Technology and Biotechnology, 2013, 88, 1780-1793.	3.2	44
132	Catalytic oxidation of rare sugars over gold catalysts. Catalysis Science and Technology, 2013, 3, 297-307.	4.1	44
133	Transformation of bio-derived acids into fuel-like alkanes via ketonic decarboxylation and hydrodeoxygenation: Design of multifunctional catalyst, kinetic and mechanistic aspects. Journal of Energy Chemistry, 2016, 25, 208-224.	12.9	44
134	Aqueous-phase reforming of alcohols with three carbon atoms on carbon-supported Pt. Catalysis Today, 2018, 301, 78-89.	4.4	44
135	Kinetic modelling of a solidâ€“liquid reaction: reduction of ferric iron to ferrous iron with zinc sulphide. Chemical Engineering Science, 2004, 59, 919-930.	3.8	43
136	Esterification of propanoic acid with ethanol, 1-propanol and butanol over a heterogeneous fiber catalyst. Chemical Engineering Journal, 2005, 115, 1-12.	12.7	43
137	Capturing CO₂: conventional versus ionic-liquid based technologies. Russian Chemical Reviews, 2012, 81, 435-457.	6.5	43
138	Metal catalysts supported on biochars: Part I synthesis and characterization. Applied Catalysis B: Environmental, 2020, 268, 118423.	20.2	43
139	Hydrogen as a remedy for the detrimental effect of aromatic and cyclic compounds on the HC-SCR over Ag/alumina. Applied Catalysis B: Environmental, 2007, 70, 65-72.	20.2	42
140	Step Changes and Deactivation Behavior in the Continuous Decarboxylation of Stearic Acid. Industrial & Engineering Chemistry Research, 2011, 50, 11049-11058.	3.7	42
141	Selective oxidation of arabinose to arabinonic acid over Pdâ€“Au catalysts supported on alumina and ceria. Applied Catalysis A: General, 2011, 392, 69-79.	4.3	42
142	Microreactors as tools in kinetic investigations: Ethylene oxide formation on silver catalyst. Chemical Engineering Science, 2013, 87, 306-314.	3.8	42
143	Obtaining Spruce Hemicelluloses of Desired Molar Mass by using Pressurized Hot Water Extraction. ChemSusChem, 2014, 7, 2947-2953.	6.8	42
144	Heterogeneous Chemoenzymatic Catalyst Combinations for Oneâ€Pot Dynamic Kinetic Resolution Applications. ChemCatChem, 2015, 7, 4004-4015.	3.7	42

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145	Non-Thermal Plasma for Process and Energy Intensification in Dry Reforming of Methane. Catalysts, 2020, 10, 1358.	3.5	42
146	Selective hydrogenation of cinnamaldehyde over Ru/Y zeolite. Journal of Molecular Catalysis A, 2004, 217, 145-154.	4.8	41
147	An investigation of a new regeneration method of commercial aged three-way catalysts. Applied Catalysis B: Environmental, 2006, 65, 93-100.	20.2	41
148	Application of in situ catalyst potential measurements for estimation of reaction performance: Lactose oxidation over Au and Pd catalysts. Chemical Engineering Journal, 2007, 134, 153-161.	12.7	41
149	Isomerization of n-butane to isobutane over Pt-modified Beta and ZSM-5 zeolite catalysts: Catalyst deactivation and regeneration. Chemical Engineering Journal, 2006, 120, 83-89.	12.7	40
150	Prins cyclization: Synthesis of compounds with tetrahydropyran moiety over heterogeneous catalysts. Journal of Molecular Catalysis A, 2015, 410, 260-270.	4.8	40
151	H- and Fe-modified zeolite beta catalysts for preparation of trans-carveol from Î±-pinene oxide. Catalysis Today, 2015, 241, 237-245.	4.4	40
152	Process design and techno-economical analysis of hydrogen production by aqueous phase reforming of sorbitol. Chemical Engineering Research and Design, 2018, 134, 104-116.	5.6	40
153	Kinetic modeling of fatty acid methyl esters and triglycerides hydrodeoxygenation over nickel and palladium catalysts. Chemical Engineering Journal, 2018, 334, 2201-2207.	12.7	40
154	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.	8.2	39
155	Catalytic dehydrogenation of ethanol into acetaldehyde and isobutanol using mono- and multicomponent copper catalysts. Comptes Rendus Chimie, 2018, 21, 194-209.	0.5	39
156	A combined experimental and theoretical study of 1-phenylpropane-1,2-dione hydrogenation over heterogeneous cinchonidine-modified Pt catalyst. Journal of Catalysis, 2004, 224, 326-339.	6.2	38
157	On the performance of Ag/Al₂O₃as a HC-SCR catalyst â€“ influence of silver loading, morphology and nature of the reductant. Catalysis Science and Technology, 2013, 3, 644-653.	4.1	38
158	Effect of the Preparation of Pt-Modified Zeolite Beta-Bentonite Extrudates on Their Catalytic Behavior in n-Hexane Hydroisomerization. Industrial & Engineering Chemistry Research, 2019, 58, 10875-10885.	3.7	38
159	Esterification of propionic acid under microwave irradiation over an ion-exchange resin. Catalysis Today, 2005, 100, 431-435.	4.4	37
160	Structure Sensitivity in <scp>l</scp>-Arabinose Oxidation over Au/Al₂O₃ Catalysts. Journal of Physical Chemistry C, 2011, 115, 1036-1043.	3.1	37
161	Nanokinetics for nanocatalysis. Catalysis Science and Technology, 2011, 1, 380.	4.1	37
162	Kinetic modeling of hemicellulose hydrolysis in the presence of homogeneous and heterogeneous catalysts. AICHE Journal, 2014, 60, 1066-1077.	3.6	37

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163	Hemicellulose hydrolysis and hydrolytic hydrogenation over proton- and metal modified beta zeolites. Microporous and Mesoporous Materials, 2014, 189, 189-199.	4.4	37
164	Ring Opening of Decalin Over Zeolite-Supported Iridium Catalysts. Topics in Catalysis, 2010, 53, 1438-1445.	2.8	36
165	Active copper species in 1-butene skeletal isomerization: comparison between copper-modified MCM-41 and beta catalysts. Microporous and Mesoporous Materials, 2003, 60, 159-171.	4.4	35
166	Hydrogenolysis of Hydroxymatairesinol Over Carbon-Supported Palladium Catalysts. Catalysis Letters, 2005, 103, 125-131.	2.6	35
167	Kinetic Study ofn-Butane Isomerization over Ptâ^'H-Mordenite. Industrial & Engineering Chemistry Research, 2005, 44, 471-484.	3.7	35
168	Enhancement of solid dissolution by ultrasound. Chemical Engineering and Processing: Process Intensification, 2007, 46, 862-869.	3.6	35
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