

# Dmitry Yu Murzin

## List of Publications by Year in descending order

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806  
papers

23,330  
citations

13068

68  
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23472

111  
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834  
all docs

834  
docs citations

834  
times ranked

15672  
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterogeneous Catalytic Deoxygenation of Stearic Acid for Production of Biodiesel. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 5708-5715.	1.8	577
2	Chemoselective hydrogenation of carbonyl compounds over heterogeneous catalysts. <i>Applied Catalysis A: General</i> , 2005, 292, 1-49.	2.2	557
3	Catalytic pyrolysis of woody biomass in a fluidized bed reactor: Influence of the zeolite structure. <i>Fuel</i> , 2008, 87, 2493-2501.	3.4	404
4	Production of Lactic Acid/Lactates from Biomass and Their Catalytic Transformations to Commodities. <i>Chemical Reviews</i> , 2014, 114, 1909-1971.	23.0	367
5	Hydrocarbons for diesel fuel via decarboxylation of vegetable oils. <i>Catalysis Today</i> , 2005, 106, 197-200.	2.2	351
6	Synthesis of Sugars by Hydrolysis of Hemicelluloses- A Review. <i>Chemical Reviews</i> , 2011, 111, 5638-5666.	23.0	350
7	Catalytic Deoxygenation of Fatty Acids and Their Derivatives. <i>Energy &amp; Fuels</i> , 2007, 21, 30-41.	2.5	315
8	Catalytic deoxygenation of unsaturated renewable feedstocks for production of diesel fuel hydrocarbons. <i>Fuel</i> , 2008, 87, 933-945.	3.4	313
9	Recent Progress in Synthesis of Fine and Specialty Chemicals from Wood and Other Biomass by Heterogeneous Catalytic Processes. <i>Catalysis Reviews - Science and Engineering</i> , 2007, 49, 197-340.	5.7	250
10	Transforming Triglycerides and Fatty Acids into Biofuels. <i>ChemSusChem</i> , 2009, 2, 1109-1119.	3.6	232
11	Asymmetric Heterogeneous Catalysis: Science and Engineering. <i>Catalysis Reviews - Science and Engineering</i> , 2005, 47, 175-256.	5.7	231
12	Deoxygenation of palmitic and stearic acid over supported Pd catalysts: Effect of metal dispersion. <i>Applied Catalysis A: General</i> , 2009, 355, 100-108.	2.2	209
13	Mesoporous silica material TUD-1 as a drug delivery system. <i>International Journal of Pharmaceutics</i> , 2007, 331, 133-138.	2.6	202
14	Deactivation of postcombustion catalysts, a review. <i>Fuel</i> , 2004, 83, 395-408.	3.4	176
15	High Performances of Pt/ZnO Catalysts in Selective Hydrogenation of Crotonaldehyde. <i>Journal of Catalysis</i> , 1999, 188, 165-175.	3.1	171
16	Esterification of different acids over heterogeneous and homogeneous catalysts and correlation with the Taft equation. <i>Journal of Molecular Catalysis A</i> , 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. <i>Drug Delivery</i> , 2007, 14, 337-347.	2.5	169
18	Production of diesel fuel from renewable feeds: Kinetics of ethyl stearate decarboxylation. <i>Chemical Engineering Journal</i> , 2007, 134, 29-34.	6.6	160

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19	Drug Delivery Formulations of Ordered and Nonordered Mesoporous Silica: Comparison of Three Drug Loading Methods. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 3294-3306.	1.6	144
20	Catalytic upgrading of woody biomass derived pyrolysis vapours over iron modified zeolites in a dual-fluidized bed reactor. <i>Fuel</i> , 2010, 89, 1992-2000.	3.4	139
21	Catalytic Pyrolysis of Biomass in a Fluidized Bed Reactor. <i>Chemical Engineering Research and Design</i> , 2007, 85, 473-480.	2.7	137
22	Ring opening of decalin over zeolitesI. Activity and selectivity of proton-form zeolites. <i>Journal of Catalysis</i> , 2004, 222, 65-79.	3.1	131
23	Failure of MTT as a Toxicity Testing Agent for Mesoporous Silicon Microparticles. <i>Chemical Research in Toxicology</i> , 2007, 20, 1913-1918.	1.7	129
24	Continuous decarboxylation of lauric acid over Pd/C catalyst. <i>Fuel</i> , 2008, 87, 3543-3549.	3.4	129
25	Metal-Support Interactions in Zeolite-Supported Noble Metals: Influence of Metal Crystallites on the Support Acidity. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4937-4946.	1.2	127
26	Ultrasound enhancement of cellulose processing in ionic liquids: from dissolution towards functionalization. <i>Green Chemistry</i> , 2007, 9, 1229.	4.6	126
27	Toward Improved Catalytic Low-Temperature NO <sub>x</sub> Removal in Diesel-Powered Vehicles. <i>Accounts of Chemical Research</i> , 2006, 39, 273-282.	7.6	124
28	Ring opening of decalin over zeolitesII. Activity and selectivity of platinum-modified zeolites. <i>Journal of Catalysis</i> , 2004, 227, 313-327.	3.1	123
29	Catalytic Deoxygenation of Stearic Acid in a Continuous Reactor over a Mesoporous Carbon-Supported Pd Catalyst. <i>Energy &amp; Fuels</i> , 2009, 23, 3842-3845.	2.5	123
30	Review on hydrodynamics and mass transfer in minichannel wall reactors with gas-liquid Taylor flow. <i>Chemical Engineering Research and Design</i> , 2016, 113, 304-329.	2.7	119
31	Decarboxylation of fatty acids over Pd supported on mesoporous carbon. <i>Catalysis Today</i> , 2010, 150, 28-31.	2.2	117
32	On the mechanism of the selective catalytic reduction of NO with higher hydrocarbons over a silver/alumina catalyst. <i>Journal of Catalysis</i> , 2004, 227, 328-343.	3.1	114
33	Synthesis of Biodiesel via Deoxygenation of Stearic Acid over Supported Pd/C Catalyst. <i>Catalysis Letters</i> , 2008, 122, 247-251.	1.4	114
34	Catalytic Deoxygenation of Stearic Acid and Palmitic Acid in Semibatch Mode. <i>Catalysis Letters</i> , 2009, 130, 48-51.	1.4	110
35	Effect of catalyst synthesis parameters on the metal particle size. <i>Applied Catalysis A: General</i> , 2013, 451, 251-281.	2.2	106
36	Support effects in hydrogenation of cinnamaldehyde over carbon nanofiber-supported platinum catalysts: Kinetic modeling. <i>Chemical Engineering Science</i> , 2005, 60, 5682-5695.	1.9	105

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37	Influence of Hydrogen in Catalytic Deoxygenation of Fatty Acids and Their Derivatives over Pd/C. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 8922-8927.	1.8	105
38	Reaction Products and Transformations of Intermediates in the Aqueous-Phase Reforming of Sorbitol. <i>ChemSusChem</i> , 2010, 3, 708-718.	3.6	94
39	Cyclization of citronellal over zeolites and mesoporous materials for production of isopulegol. <i>Journal of Catalysis</i> , 2004, 225, 155-169.	3.1	93
40	Deoxygenation of dodecanoic acid under inert atmosphere. <i>Fuel</i> , 2010, 89, 2033-2039.	3.4	93
41	Stabilities of C3-C5 alkoxide species inside H-FER zeolite: a hybrid QM/MM study. <i>Journal of Catalysis</i> , 2005, 231, 393-404.	3.1	91
42	Diesel-like Hydrocarbons from Catalytic Deoxygenation of Stearic Acid over Supported Pd Nanoparticles on SBA-15 Catalysts. <i>Catalysis Letters</i> , 2010, 134, 250-257.	1.4	91
43	Melamine-derived graphitic carbon nitride as a new effective metal-free catalyst for Knoevenagel condensation of benzaldehyde with ethylcyanoacetate. <i>Catalysis Science and Technology</i> , 2018, 8, 2928-2937.	2.1	91
44	Kinetics of starch oxidation using hydrogen peroxide as an environmentally friendly oxidant and an iron complex as a catalyst. <i>Chemical Engineering Journal</i> , 2009, 154, 52-59.	6.6	89
45	Sulfur-free Ni catalyst for production of green diesel by hydrodeoxygenation. <i>Journal of Catalysis</i> , 2017, 347, 205-221.	3.1	89
46	Synthesis of Dimethyl Carbonate from Methanol and Carbon Dioxide: Circumventing Thermodynamic Limitations. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 9609-9617.	1.8	88
47	Kinetics of esterification of propanoic acid with methanol over a fibrous polymer-supported sulphonic acid catalyst. <i>Applied Catalysis A: General</i> , 2002, 228, 253-267.	2.2	87
48	Cytotoxicity study of ordered mesoporous silica MCM-41 and SBA-15 microparticles on Caco-2 cells. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2010, 74, 483-494.	2.0	87
49	Aqueous phase reforming of xylitol and sorbitol: Comparison and influence of substrate structure. <i>Applied Catalysis A: General</i> , 2012, 435-436, 172-180.	2.2	86
50	Hydrodeoxygenation of Lignin-Derived Phenols: From Fundamental Studies towards Industrial Applications. <i>Catalysts</i> , 2017, 7, 265.	1.6	85
51	A route to produce renewable diesel from algae: Synthesis and characterization of biodiesel via in situ transesterification of <i>Chlorella</i> alga and its catalytic deoxygenation to renewable diesel. <i>Fuel</i> , 2015, 155, 144-154.	3.4	84
52	Supported ionic liquid catalysts for fine chemicals: citral hydrogenation. <i>Green Chemistry</i> , 2006, 8, 197-205.	4.6	83
53	Ring opening of decalin over zeolites II. Activity and selectivity of platinum-modified zeolites. <i>Journal of Catalysis</i> , 2004, 227, 313-327.	3.1	82
54	Conventional synthesis methods of short-chain dialkylcarbonates and novel production technology via direct route from alcohol and waste CO <sub>2</sub> . <i>Applied Catalysis A: General</i> , 2010, 383, 1-13.	2.2	82

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55	Catalytic Deoxygenation of Tall Oil Fatty Acid over Palladium Supported on Mesoporous Carbon. <i>Energy &amp; Fuels</i> , 2011, 25, 2815-2825.	2.5	82
56	Ruthenium-modified MCM-41 mesoporous molecular sieve and Y zeolite catalysts for selective hydrogenation of cinnamaldehyde. <i>Applied Catalysis A: General</i> , 2003, 251, 385-396.	2.2	80
57	Continuous reduction of NO with octane over a silver/alumina catalyst in oxygen-rich exhaust gases: combined heterogeneous and surface-mediated homogeneous reactions. <i>Journal of Catalysis</i> , 2003, 219, 25-40.	3.1	79
58	Liquid phase hydrogenation of citral: suppression of side reactions. <i>Applied Catalysis A: General</i> , 2002, 237, 181-200.	2.2	78
59	Thermodynamic analysis of nanoparticle size effect on catalytic kinetics. <i>Chemical Engineering Science</i> , 2009, 64, 1046-1052.	1.9	78
60	Influence of the support composition and acidity on the catalytic properties of mesoporous SBA-15, Al-SBA-15, and Al <sub>2</sub> O <sub>3</sub> -supported Pt catalysts for cinnamaldehyde hydrogenation. <i>Journal of Catalysis</i> , 2011, 282, 228-236.	3.1	78
61	Hydrodeoxygenation of stearic acid and tall oil fatty acids over Ni-alumina catalysts: Influence of reaction parameters and kinetic modelling. <i>Chemical Engineering Journal</i> , 2017, 316, 401-409.	6.6	78
62	Acyl Group Migration and Cleavage in Selectively Protected 2-Deoxy-2-Acetyl-D-Galactopyranosides as Studied by NMR Spectroscopy and Kinetic Calculations. <i>Journal of the American Chemical Society</i> , 2008, 130, 8769-8772.	6.6	77
63	Imidazolium-Based Poly(ionic liquid)s as New Alternatives for CO <sub>2</sub> Capture. <i>ChemSusChem</i> , 2013, 6, 1500-1509.	3.6	75
64	Liquid phase hydrogenation of nitrobenzene. <i>Applied Catalysis A: General</i> , 2015, 499, 66-76.	2.2	74
65	Liquid-phase hydrogenation of citral for production of citronellol: catalyst selection. <i>Applied Catalysis A: General</i> , 2003, 241, 271-288.	2.2	73
66	From renewable raw materials to high value-added fine chemicals—Catalytic hydrogenation and oxidation of d-lactose. <i>Catalysis Today</i> , 2007, 121, 92-99.	2.2	73
67	Kinetic analysis of cluster size dependent activity and selectivity. <i>Journal of Catalysis</i> , 2010, 276, 85-91.	3.1	73
68	Hydrodeoxygenation of vanillin over carbon supported metal catalysts. <i>Applied Catalysis A: General</i> , 2018, 561, 137-149.	2.2	73
69	Selective hydrogenation of fatty acids to alcohols over highly dispersed ReO <sub>3</sub> /TiO <sub>2</sub> catalyst. <i>Journal of Catalysis</i> , 2015, 328, 197-207.	3.1	72
70	Enantioselective Hydrogenation of 1-Phenyl-1,2-propanedione. <i>Journal of Catalysis</i> , 2001, 204, 281-291.	3.1	67
71	Reaction kinetics and modelling of the gold catalysed glycerol oxidation. <i>Topics in Catalysis</i> , 2007, 44, 299-305.	1.3	66
72	Chemical Characterization of Lube Oils. <i>Energy &amp; Fuels</i> , 2013, 27, 27-34.	2.5	66

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73	Isomerization of $\alpha$ -Pinene over Clinoptilolite. <i>Journal of Catalysis</i> , 1999, 185, 352-362.	3.1	65
74	d-Lactose oxidation over gold catalysts. <i>Catalysis Today</i> , 2008, 131, 385-392.	2.2	65
75	Catalytic Deoxygenation of Tall Oil Fatty Acids Over a Palladium-Mesoporous Carbon Catalyst: A New Source of Biofuels. <i>Topics in Catalysis</i> , 2010, 53, 1274-1277.	1.3	65
76	Intensification of hemicellulose hot-water extraction from spruce wood in a batch extractor – Effects of wood particle size. <i>Bioresource Technology</i> , 2013, 143, 212-220.	4.8	65
77	Solvent effects in enantioselective hydrogenation of 1-phenyl-1,2-propanedione. <i>Journal of Molecular Catalysis A</i> , 2003, 192, 135-151.	4.8	64
78	Catalytic Deoxygenation of C18 Fatty Acids Over Mesoporous Pd/C Catalyst for Synthesis of Biofuels. <i>Topics in Catalysis</i> , 2011, 54, 460-466.	1.3	64
79	Sugar hydrogenation over a Ru/C catalyst. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 658-668.	1.6	64
80	Selective hydrodeoxygenation of biomass derived 5-hydroxymethylfurfural over silica supported iridium catalysts. <i>Applied Catalysis B: Environmental</i> , 2019, 241, 270-283.	10.8	64
81	Isomerization of linoleic acid over supported metal catalysts. <i>Applied Catalysis A: General</i> , 2003, 245, 257-275.	2.2	63
82	Pyrolysis of pine and gasification of pine chars – Influence of organically bound metals. <i>Bioresource Technology</i> , 2013, 128, 22-29.	4.8	63
83	A New Heterogeneously Catalytic Pathway for Isomerization of Linoleic Acid over Ru/C and Ni/H $\beta$ -MCM-41 Catalysts. <i>Journal of Catalysis</i> , 2002, 210, 354-366.	3.1	62
84	The role of bio-ethanol in aqueous phase reforming to sustainable hydrogen. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 12642-12649.	3.8	62
85	Silver/Alumina Catalyst for Selective Catalytic Reduction of NO <sub>x</sub> to N <sub>2</sub> by Hydrocarbons in Diesel Powered Vehicles. <i>Topics in Catalysis</i> , 2004, 28, 185-189.	1.3	61
86	Kinetics of Aqueous Extraction of Hemicelluloses from Spruce in an Intensified Reactor System. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 3818-3828.	1.8	61
87	Hydrodeoxygenation of vanillin over noble metal catalyst supported on biochars: Part II: Catalytic behaviour. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118425.	10.8	61
88	A kinetic treatment of the gas phase hydrodechlorination of chlorobenzene over nickel/silica: beyond conventional kinetics. <i>Chemical Engineering Science</i> , 2001, 56, 3185-3195.	1.9	60
89	Utilization of electromagnetic and acoustic irradiation in enhancing heterogeneous catalytic reactions. <i>Applied Catalysis A: General</i> , 2005, 279, 1-22.	2.2	60
90	Solvent controlled catalysis: Synthesis of aldehyde, acid or ester by selective oxidation of benzyl alcohol with gold nanoparticles on alumina. <i>Applied Catalysis A: General</i> , 2014, 485, 202-206.	2.2	60

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91	Structure sensitivity in catalytic hydrogenation of glucose over ruthenium. <i>Catalysis Today</i> , 2015, 241, 195-199.	2.2	60
92	Valorization of cellulose over metal supported mesoporous materials. <i>Catalysis Today</i> , 2011, 167, 91-95.	2.2	59
93	Particle size effect in liquid-phase hydrogenation of phenylacetylene over Pd catalysts: Experimental data and theoretical analysis. <i>Chemical Engineering Journal</i> , 2019, 358, 520-530.	6.6	59
94	Size-dependent heterogeneous catalytic kinetics. <i>Journal of Molecular Catalysis A</i> , 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. <i>Catalysis Science and Technology</i> , 2016, 6, 1476-1487.	2.1	58
96	Hydrogenation of Vegetable Oils over Pd on Nanocomposite Carbon Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 7219-7225.	1.8	57
97	Pyrolysis of Softwood Carbohydrates in a Fluidized Bed Reactor. <i>International Journal of Molecular Sciences</i> , 2008, 9, 1665-1675.	1.8	57
98	Acid hydrolysis of xylan. <i>Catalysis Today</i> , 2016, 259, 376-380.	2.2	57
99	Comparative study of the extraction methods for recovery of carotenoids from algae: extraction kinetics and effect of different extraction parameters. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1607-1626.	1.6	56
100	XPS analysis of chlorine residues in supported Pt and Pd catalysts with low metal loading. <i>Applied Catalysis A: General</i> , 2003, 247, 283-294.	2.2	55
101	Isomerization of $\alpha$ -pinene oxide using Fe-supported catalysts: Selective synthesis of campholenic aldehyde. <i>Applied Catalysis A: General</i> , 2014, 470, 162-176.	2.2	55
102	Direct amination of dodecanol with NH <sub>3</sub> over heterogeneous catalysts. Catalyst screening and kinetic modelling. <i>Chemical Engineering Journal</i> , 2017, 307, 739-749.	6.6	55
103	Aqueous-phase reforming of xylitol over Pt/C and Pt/TiC-CDC catalysts: catalyst characterization and catalytic performance. <i>Catalysis Science and Technology</i> , 2014, 4, 387-401.	2.1	54
104	Simple method for preparing of sulfur-doped graphitic carbon nitride with superior activity in CO <sub>2</sub> photoreduction. <i>ChemistrySelect</i> , 2016, 1, 4987-4993.	0.7	54
105	“Double Peak” Catalytic Activity of Nanosized Gold Supported on Titania in Gas-Phase Selective Oxidation of Ethanol. <i>ChemCatChem</i> , 2010, 2, 1535-1538.	1.8	53
106	Selective vapour-phase $\alpha$ -pinene isomerization to camphene over gold-on-alumina catalyst. <i>Applied Catalysis A: General</i> , 2010, 385, 136-143.	2.2	53
107	Catalysis in biomass processing. <i>Catalysis in Industry</i> , 2011, 3, 218-249.	0.3	52
108	Low temperature gas-phase oxidation of ethanol over Au/TiO <sub>2</sub> . <i>Applied Catalysis A: General</i> , 2012, 433-434, 88-95.	2.2	52

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109	Aqueous phase reforming of xylitol over Pt-Re bimetallic catalyst: Effect of the Re addition. <i>Catalysis Today</i> , 2014, 223, 97-107.	2.2	52
110	Kinetics of $\hat{\pm}$ -Pinene Isomerization. <i>Industrial &amp; Engineering Chemistry Research</i> , 1998, 37, 2373-2377.	1.8	51
111	Catalytic Hydroisomerization of Long-Chain Hydrocarbons for the Production of Fuels. <i>Catalysts</i> , 2018, 8, 534.	1.6	51
112	Overview of catalytic methods for production of next generation biodiesel from natural oils and fats. <i>Russian Journal of Physical Chemistry B</i> , 2009, 3, 1035-1043.	0.2	50
113	Physicochemical stability of high indomethacin payload ordered mesoporous silica MCM-41 and SBA-15 microparticles. <i>International Journal of Pharmaceutics</i> , 2011, 416, 242-51.	2.6	50
114	Isomerization of $\hat{\pm}$ -pinene over ion-exchanged natural zeolites. <i>Chemical Engineering Journal</i> , 2003, 91, 257-269.	6.6	49
115	The Effect of Alkoxide Ionic Liquids on the Synthesis of Dimethyl Carbonate from CO <sub>2</sub> and Methanol over ZrO <sub>2</sub> •MgO. <i>Catalysis Letters</i> , 2011, 141, 1254-1261.	1.4	49
116	Modeling of kinetics and stereoselectivity in liquid-phase $\hat{\pm}$ -pinene hydrogenation over Pd/C. <i>Applied Catalysis A: General</i> , 2009, 356, 216-224.	2.2	48
117	NMR and molecular modeling of the dimeric self-association of the enantiomers of 1,1- $\hat{\pm}$ -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). <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 537-542.	1.5	48
118	Enhanced yields of diethyl carbonate via one-pot synthesis from ethanol, carbon dioxide and butylene oxide over cerium (IV) oxide. <i>Chemical Engineering Journal</i> , 2011, 176-177, 124-133.	6.6	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. <i>Topics in Catalysis</i> , 2011, 54, 941-948.	1.3	48
120	CO <sub>2</sub> removal with $\hat{\sim}$ switchable $\hat{\sim}$ ™ versus $\hat{\sim}$ classical $\hat{\sim}$ ™ ionic liquids. <i>Separation and Purification Technology</i> , 2012, 97, 42-50.	3.9	48
121	Effect of synthesis time and mode of stirring on physico-chemical and catalytic properties of ZSM-5 zeolite catalysts. <i>Applied Catalysis A: General</i> , 2002, 235, 113-123.	2.2	47
122	Spruce Hemicellulose for Chemicals Using Aqueous Extraction: Kinetics, Mass Transfer, and Modeling. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 6341-6350.	1.8	47
123	Kinetics of ethylbenzene hydrogenation on Ni/Al <sub>2</sub> O <sub>3</sub> . <i>Applied Catalysis A: General</i> , 1995, 125, 271-291.	2.2	46
124	Catalysts based on platinum•tin and platinum•gallium in close contact for the selective hydrogenation of cinnamaldehyde. <i>Journal of Catalysis</i> , 2009, 263, 146-154.	3.1	46
125	Kinetics and modeling of 1-phenyl-1,2-propanedione hydrogenation. <i>Journal of Catalysis</i> , 2003, 213, 7-16.	3.1	45
126	Catalytic pyrolysis of low density polyethylene over H- $\hat{\beta}$ , H-Y, H-Mordenite, and H-Ferrierite zeolite catalysts: Influence of acidity and structures. <i>Kinetics and Catalysis</i> , 2007, 48, 535-540.	0.3	45



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127	Zeta Potential of Beta Zeolites: Influence of Structure, Acidity, pH, Temperature and Concentration. <i>Molecules</i> , 2018, 23, 946.	1.7	45
128	Preparation and Characterisation of Ag/Alumina Catalysts for the Removal of NO <sub>x</sub> Emissions Under Oxygen Rich Conditions. <i>Topics in Catalysis</i> , 2004, 30/31, 91-95.	1.3	44
129	Selective Hydrolysis of Arabinogalactan into Arabinose and Galactose Over Heterogeneous Catalysts. <i>Catalysis Letters</i> , 2011, 141, 408-412.	1.4	44
130	Synthesis and characterization of solid base mesoporous and microporous catalysts: Influence of the support, structure and type of base metal. <i>Microporous and Mesoporous Materials</i> , 2012, 152, 71-77.	2.2	44
131	Technology for rerefining used lube oils applied in Europe: a review. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 1780-1793.	1.6	44
132	Catalytic oxidation of rare sugars over gold catalysts. <i>Catalysis Science and Technology</i> , 2013, 3, 297-307.	2.1	44
133	Transformation of bio-derived acids into fuel-like alkanes via ketonic decarboxylation and hydrodeoxygenation: Design of multifunctional catalyst, kinetic and mechanistic aspects. <i>Journal of Energy Chemistry</i> , 2016, 25, 208-224.	7.1	44
134	Aqueous-phase reforming of alcohols with three carbon atoms on carbon-supported Pt. <i>Catalysis Today</i> , 2018, 301, 78-89.	2.2	44
135	Kinetic modelling of a solid-liquid reaction: reduction of ferric iron to ferrous iron with zinc sulphide. <i>Chemical Engineering Science</i> , 2004, 59, 919-930.	1.9	43
136	Esterification of propanoic acid with ethanol, 1-propanol and butanol over a heterogeneous fiber catalyst. <i>Chemical Engineering Journal</i> , 2005, 115, 1-12.	6.6	43
137	Capturing CO <sub>2</sub> : conventional versus ionic-liquid based technologies. <i>Russian Chemical Reviews</i> , 2012, 81, 435-457.	2.5	43
138	Metal catalysts supported on biochars: Part I synthesis and characterization. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118423.	10.8	43
139	Hydrogen as a remedy for the detrimental effect of aromatic and cyclic compounds on the HC-SCR over Ag/alumina. <i>Applied Catalysis B: Environmental</i> , 2007, 70, 65-72.	10.8	42
140	Step Changes and Deactivation Behavior in the Continuous Decarboxylation of Stearic Acid. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 11049-11058.	1.8	42
141	Selective oxidation of arabinose to arabinonic acid over Pd-Au catalysts supported on alumina and ceria. <i>Applied Catalysis A: General</i> , 2011, 392, 69-79.	2.2	42
142	Microreactors as tools in kinetic investigations: Ethylene oxide formation on silver catalyst. <i>Chemical Engineering Science</i> , 2013, 87, 306-314.	1.9	42
143	Obtaining Spruce Hemicelluloses of Desired Molar Mass by using Pressurized Hot Water Extraction. <i>ChemSusChem</i> , 2014, 7, 2947-2953.	3.6	42
144	Heterogeneous Chemoenzymatic Catalyst Combinations for One-Pot Dynamic Kinetic Resolution Applications. <i>ChemCatChem</i> , 2015, 7, 4004-4015.	1.8	42

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145	Non-Thermal Plasma for Process and Energy Intensification in Dry Reforming of Methane. <i>Catalysts</i> , 2020, 10, 1358.	1.6	42
146	Selective hydrogenation of cinnamaldehyde over Ru/Y zeolite. <i>Journal of Molecular Catalysis A</i> , 2004, 217, 145-154.	4.8	41
147	An investigation of a new regeneration method of commercial aged three-way catalysts. <i>Applied Catalysis B: Environmental</i> , 2006, 65, 93-100.	10.8	41
148	Application of in situ catalyst potential measurements for estimation of reaction performance: Lactose oxidation over Au and Pd catalysts. <i>Chemical Engineering Journal</i> , 2007, 134, 153-161.	6.6	41
149	Isomerization of n-butane to isobutane over Pt-modified Beta and ZSM-5 zeolite catalysts: Catalyst deactivation and regeneration. <i>Chemical Engineering Journal</i> , 2006, 120, 83-89.	6.6	40
150	Prins cyclization: Synthesis of compounds with tetrahydropyran moiety over heterogeneous catalysts. <i>Journal of Molecular Catalysis A</i> , 2015, 410, 260-270.	4.8	40
151	H- and Fe-modified zeolite beta catalysts for preparation of trans-carveol from $\pm$ -pinene oxide. <i>Catalysis Today</i> , 2015, 241, 237-245.	2.2	40
152	Process design and techno-economical analysis of hydrogen production by aqueous phase reforming of sorbitol. <i>Chemical Engineering Research and Design</i> , 2018, 134, 104-116.	2.7	40
153	Kinetic modeling of fatty acid methyl esters and triglycerides hydrodeoxygenation over nickel and palladium catalysts. <i>Chemical Engineering Journal</i> , 2018, 334, 2201-2207.	6.6	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. <i>Ultrasonics Sonochemistry</i> , 2007, 14, 122-130.	3.8	39
155	Catalytic dehydrogenation of ethanol into acetaldehyde and isobutanol using mono- and multicomponent copper catalysts. <i>Comptes Rendus Chimie</i> , 2018, 21, 194-209.	0.2	39
156	A combined experimental and theoretical study of 1-phenylpropane-1,2-dione hydrogenation over heterogeneous cinchonidine-modified Pt catalyst. <i>Journal of Catalysis</i> , 2004, 224, 326-339.	3.1	38
157	On the performance of Ag/Al <sub>2</sub> O <sub>3</sub> as a HC-SCR catalyst – influence of silver loading, morphology and nature of the reductant. <i>Catalysis Science and Technology</i> , 2013, 3, 644-653.	2.1	38
158	Effect of the Preparation of Pt-Modified Zeolite Beta-Bentonite Extrudates on Their Catalytic Behavior in n-Hexane Hydroisomerization. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 10875-10885.	1.8	38
159	Esterification of propionic acid under microwave irradiation over an ion-exchange resin. <i>Catalysis Today</i> , 2005, 100, 431-435.	2.2	37
160	Structure Sensitivity in $\alpha$ -Arabinose Oxidation over Au/Al <sub>2</sub> O <sub>3</sub> Catalysts. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1036-1043.	1.5	37
161	Nanokinetics for nanocatalysis. <i>Catalysis Science and Technology</i> , 2011, 1, 380.	2.1	37
162	Kinetic modeling of hemicellulose hydrolysis in the presence of homogeneous and heterogeneous catalysts. <i>AIChE Journal</i> , 2014, 60, 1066-1077.	1.8	37

#	ARTICLE	IF	CITATIONS
163	Hemicellulose hydrolysis and hydrolytic hydrogenation over proton- and metal modified beta zeolites. <i>Microporous and Mesoporous Materials</i> , 2014, 189, 189-199.	2.2	37
164	Ring Opening of Decalin Over Zeolite-Supported Iridium Catalysts. <i>Topics in Catalysis</i> , 2010, 53, 1438-1445.	1.3	36
165	Active copper species in 1-butene skeletal isomerization: comparison between copper-modified MCM-41 and beta catalysts. <i>Microporous and Mesoporous Materials</i> , 2003, 60, 159-171.	2.2	35
166	Hydrogenolysis of Hydroxymatairesinol Over Carbon-Supported Palladium Catalysts. <i>Catalysis Letters</i> , 2005, 103, 125-131.	1.4	35
167	Kinetic Study of n-Butane Isomerization over Pt <sup>2+</sup> /H-Mordenite. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 471-484.	1.8	35
168	Enhancement of solid dissolution by ultrasound. <i>Chemical Engineering and Processing: Process Intensification</i> , 2007, 46, 862-869.	1.8	35
169	Hydrolytic hydrogenation of hemicellulose over metal modified mesoporous catalyst. <i>Catalysis Today</i> , 2012, 196, 26-33.	2.2	35
170	The influence of various synthesis methods on the catalytic activity of cerium oxide in one-pot synthesis of diethyl carbonate starting from CO <sub>2</sub> , ethanol and butylene oxide. <i>Catalysis Today</i> , 2013, 210, 47-54.	2.2	35
171	Stearic acid hydrodeoxygenation over Pd nanoparticles embedded in mesoporous hypercrosslinked polystyrene. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 46, 426-435.	2.9	35
172	Sibunit-Supported Mono- and Bimetallic Catalysts Used in Aqueous-Phase Reforming of Xylitol. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 2050-2067.	1.8	35
173	Liquid-Phase Hydrogenation of Cinnamaldehyde over a Ru <sup>2+</sup> /Sn Sol-Gel Catalyst. 1. Evaluation of Mass Transfer via a Combined Experimental/Theoretical Approach. <i>Industrial &amp; Engineering Chemistry Research</i> , 2004, 43, 2030-2038.	1.8	34
174	One-pot myrtenol amination over Au nanoparticles supported on different metal oxides. <i>Applied Catalysis A: General</i> , 2013, 464-465, 348-356.	2.2	34
175	Hemicellulose arabinogalactan hydrolytic hydrogenation over Ru-modified H-USY zeolites. <i>Journal of Catalysis</i> , 2015, 330, 93-105.	3.1	34
176	Shaping of Sulfated Zirconia Catalysts by Extrusion: Understanding the Role of Binders. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 6595-6606.	1.8	34
177	Hydrodeoxygenation of isoeugenol over Ni-SBA-15: Kinetics and modelling. <i>Applied Catalysis A: General</i> , 2019, 580, 1-10.	2.2	34
178	Hydrosilylation of cinchonidine and 9-O-TMS-cinchonidine with triethoxysilane: application of 11-(triethoxysilyl)-10,11-dihydrocinchonidine as a chiral modifier in the enantioselective hydrogenation of 1-phenylpropane-1,2-dione. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2002, , 2605-2612.	1.3	33
179	Reduction of ferric to ferrous with sphalerite concentrate, kinetic modelling. <i>Hydrometallurgy</i> , 2004, 73, 269-282.	1.8	33
180	Structure-Activity Relationship in HC-SCR of NO <sub>x</sub> by TEM, O <sub>2</sub> -Chemisorption, and EDXS Study of Ag/Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Physical Chemistry B</i> , 2006, 110, 420-427.	1.2	33

#	ARTICLE	IF	CITATIONS
181	Thermal and catalytic oligomerisation of fatty acids. <i>Applied Catalysis A: General</i> , 2007, 330, 1-11.	2.2	33
182	Selective catalytic oxidation of arabinose – A comparison of gold and palladium catalysts. <i>Applied Catalysis A: General</i> , 2010, 386, 101-108.	2.2	33
183	Isomerization of $\pm$ -Pinene Oxide Over Iron-Modified Zeolites. <i>Topics in Catalysis</i> , 2013, 56, 696-713.	1.3	33
184	New modelling approach to liquid – solid reaction kinetics: From ideal particles to real particles. <i>Chemical Engineering Research and Design</i> , 2013, 91, 1876-1889.	2.7	33
185	CO <sub>2</sub> capture from biogas: absorbent selection. <i>RSC Advances</i> , 2013, 3, 2979.	1.7	33
186	Aqueous Phase Reforming of Industrially Relevant Sugar Alcohols with Different Chiralities. <i>ACS Catalysis</i> , 2015, 5, 2989-3005.	5.5	33
187	Isomerization of $\pm$ -pinene oxide over ZSM-5 based micro-mesoporous materials. <i>Applied Catalysis A: General</i> , 2018, 560, 236-247.	2.2	33
188	Hydrodeoxygenation of Isoeugenol over Ni- and Co-Supported Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14545-14560.	3.2	33
189	Gas-phase hydrogenation of o-xylene over Pt/alumina catalyst, activity, and stereoselectivity. <i>Journal of Catalysis</i> , 2003, 218, 267-279.	3.1	32
190	Effect of Ultrasound on Catalytic Hydrogenation of Fructose to Mannitol. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 9370-9375.	1.8	32
191	Origin of ligand acceleration in heterogeneous ethyl pyruvate hydrogenation. <i>Journal of Catalysis</i> , 2006, 241, 96-102.	3.1	32
192	Catalytic hydrogenation of linoleic acid to stearic acid over different Pd- and Ru-supported catalysts. <i>Applied Catalysis A: General</i> , 2008, 345, 201-212.	2.2	32
193	Preparation and Characterization of Alumina-Based Microreactors for Application in Methyl Chloride Synthesis. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 4545-4555.	1.8	32
194	Preparation and characterization of neat and ZnCl <sub>2</sub> modified zeolites and alumina for methyl chloride synthesis. <i>Applied Catalysis A: General</i> , 2013, 468, 120-134.	2.2	32
195	Kinetic and Thermodynamic Analysis of Guaiacol Hydrodeoxygenation. <i>Catalysis Letters</i> , 2019, 149, 2453-2467.	1.4	32
196	Catalytic Hydrogenation/Hydrogenolysis of 5-Hydroxymethylfurfural to 2,5-Dimethylfuran. <i>ChemSusChem</i> , 2021, 14, 150-168.	3.6	32
197	Hydrogenation of Citral Over a Polymer Fibre Catalyst. <i>Catalysis Letters</i> , 2002, 84, 219-224.	1.4	31
198	Asymmetric hydrogenation of 1-phenylpropane-1,2-dione over cinchona-modified Pt: Role of the C-9 OH group of cinchonidine. <i>Journal of Catalysis</i> , 2004, 227, 210-216.	3.1	31

#	ARTICLE	IF	CITATIONS
199	Influence of ruthenium precursor on catalytic activity of Ru/Al <sub>2</sub> O <sub>3</sub> catalyst in selective isomerization of linoleic acid to cis-9,trans-11- and trans-10,cis-12-conjugated linoleic acid. Applied Catalysis A: General, 2004, 267, 121-133.	2.2	31
200	Kinetic considerations of H <sub>2</sub> assisted hydrocarbon selective catalytic reduction of NO over Ag/Al <sub>2</sub> O <sub>3</sub> . Applied Catalysis A: General, 2006, 303, 96-102.	2.2	31
201	Dehydrogenation of hydroxymatairesinol to oxomatairesinol over carbon nanofibre-supported palladium catalysts. Journal of Molecular Catalysis A, 2007, 274, 42-49.	4.8	31
202	Solid-liquid reaction kinetics – experimental aspects and model development. Reviews in Chemical Engineering, 2011, 27, .	2.3	31
203	Chemoselective Liquid Phase Hydrogenation of 3-Nitrostyrene over Pt Nanoparticles: Synergy with ZnO Support. Industrial & Engineering Chemistry Research, 2015, 54, 8659-8669.	1.8	31
204	Synthesis and physicochemical characterization of beta zeolite–bentonite composite materials for shaped catalysts. Catalysis Science and Technology, 2018, 8, 6150-6162.	2.1	31
205	Hydrodeoxygenation of Isoeugenol over Alumina-Supported Ir, Pt, and Re Catalysts. ACS Sustainable Chemistry and Engineering, 2018, 6, 16205-16218.	3.2	31
206	Synthesis and Physicochemical Characterization of Shaped Catalysts of $\beta$ and $\gamma$ Zeolites for Cyclization of Citronellal. Industrial & Engineering Chemistry Research, 2019, 58, 18084-18096.	1.8	31
207	Isomerization of 1-butene over SAPO-11 catalysts synthesized by varying synthesis time and silica sources. Applied Catalysis A: General, 2004, 259, 227-234.	2.2	30
208	On Surface Heterogeneity and Catalytic Kinetics. Industrial & Engineering Chemistry Research, 2005, 44, 1688-1697.	1.8	30
209	DRIFT, XPS and XAS Investigation of Au–Ni/Al <sub>2</sub> O <sub>3</sub> Synergetic Catalyst for Allylbenzene Isomerization. Topics in Catalysis, 2009, 52, 344-350.	1.3	30
210	Formation of Furfural in Catalytic Transformation of Levoglucosan over Mesoporous Materials. ChemCatChem, 2010, 2, 539-546.	1.8	30
211	Catalytic Transformations of Birch Kraft Pulp. ACS Catalysis, 2012, 2, 1381-1393.	5.5	30
212	Continuous hydrogenation of glucose with ruthenium on carbon nanotube catalysts. Catalysis Science and Technology, 2015, 5, 953-959.	2.1	30
213	Synthesis and characterization of Au nano particles supported catalysts for partial oxidation of ethanol: Influence of solution pH, Au nanoparticle size, support structure and acidity. Journal of Catalysis, 2017, 353, 223-238.	3.1	30
214	Hydrodeoxygenation of phenolic model compounds over zirconia supported Ir and Ni-catalysts. Reaction Kinetics, Mechanisms and Catalysis, 2019, 126, 737-759.	0.8	30
215	Hydroconversion of fatty acids and vegetable oils for production of jet fuels. Fuel, 2021, 306, 121673.	3.4	30
216	Gas phase hydrogenation of o- and p-xylene on NiAl <sub>2</sub> O <sub>3</sub> – Kinetic modelling. Applied Catalysis A: General, 1997, 150, 115-129.	2.2	29

#	ARTICLE	IF	CITATIONS
217	Catalyst Deactivation in Diborane Decomposition. <i>Catalysis Letters</i> , 2005, 105, 191-202.	1.4	29
218	Kinetics, catalyst deactivation and modeling in the hydrogenation of $\hat{1}^2$ -sitosterol to $\hat{1}^2$ -sitostanol over microporous and mesoporous carbon supported Pd catalysts. <i>Chemical Engineering Journal</i> , 2009, 154, 45-51.	6.6	29
219	Interaction of intrinsic kinetics and internal mass transfer in porous ion-exchange catalysts: Green synthesis of peroxy-carboxylic acids. <i>Chemical Engineering Science</i> , 2009, 64, 4101-4114.	1.9	29
220	Supported ionic liquids in Burkholderia cepacia lipase-catalyzed asymmetric acylation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 67, 129-134.	1.8	29
221	Batch and Semibatch Partial Oxidation of Starch by Hydrogen Peroxide in the Presence of an Iron Tetrasulfophthalocyanine Catalyst: The Effect of Ultrasound and the Catalyst Addition Policy. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 749-757.	1.8	29
222	Oxidative dehydrogenation of a biomass derived lignan "Hydroxymatairesinol over heterogeneous gold catalysts. <i>Journal of Catalysis</i> , 2011, 282, 54-64.	3.1	29
223	Improved synthesis and hydrothermal stability of Pt/C catalysts based on size-controlled nanoparticles. <i>Catalysis Science and Technology</i> , 2016, 6, 5196-5206.	2.1	29
224	Determination of acid sites in porous aluminosilicate solid catalysts for aqueous phase reactions using potentiometric titration method. <i>Journal of Catalysis</i> , 2016, 335, 117-124.	3.1	29
225	Aldose to ketose interconversion: galactose and arabinose isomerization over heterogeneous catalysts. <i>Catalysis Science and Technology</i> , 2017, 7, 5321-5331.	2.1	29
226	Pd 3 Sn nanoparticles on TiO <sub>2</sub> and ZnO supports as catalysts for semi-hydrogenation: Synthesis and catalytic performance. <i>Applied Catalysis A: General</i> , 2017, 544, 40-45.	2.2	29
227	Pd Supported IRMOF-3: Heterogeneous, Efficient and Reusable Catalyst for Heck Reaction. <i>Catalysis Letters</i> , 2019, 149, 1941-1951.	1.4	29
228	Modeling of Adsorption and Kinetics in Catalysis over Induced Nonuniform Surfaces: Surface Electronic Gas Model. <i>Industrial &amp; Engineering Chemistry Research</i> , 1995, 34, 1208-1218.	1.8	28
229	Kinetics of NO reduction over Ag/alumina by higher hydrocarbon in excess of oxygen. <i>Chemical Engineering Journal</i> , 2005, 107, 215-220.	6.6	28
230	Kinetic Study and Modeling of Peroxypropionic Acid Synthesis from Propionic Acid and Hydrogen Peroxide Using Homogeneous Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 656-664.	1.8	28
231	Isomerization of $\hat{1}^2$ -pinene oxide over Sn-modified zeolites. <i>Journal of Molecular Catalysis A</i> , 2013, 366, 228-237.	4.8	28
232	Kinetic Modeling of Sorbitol Aqueous-Phase Reforming over Pt/Al <sub>2</sub> O <sub>3</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 4580-4588.	1.8	28
233	Catalytic isomerization of $\hat{1}^{\pm}$ -pinene oxide in the presence of acid-modified clays. <i>Molecular Catalysis</i> , 2018, 448, 18-29.	1.0	28
234	Production of Cycloalkanes in Hydrodeoxygenation of Isoeugenol Over Pt- and Ir-Modified Bifunctional Catalysts. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 2841-2854.	1.0	28

#	ARTICLE	IF	CITATIONS
235	Effect of Binders on the Physicochemical and Catalytic Properties of Extrudate-Shaped Beta Zeolite Catalysts for Cyclization of Citronellal. <i>Organic Process Research and Development</i> , 2019, 23, 2456-2463.	1.3	28
236	Kinetics of m-xylene hydrogenation on NiAl <sub>2</sub> O <sub>3</sub> . <i>Applied Catalysis A: General</i> , 1996, 141, 207-228.	2.2	27
237	Gas phase hydrogenation of o- and p-xylene on Ni/Al <sub>2</sub> O <sub>3</sub> – Kinetic behaviour. <i>Applied Catalysis A: General</i> , 1996, 145, 253-265.	2.2	27
238	Continuous hydrogenation of 1-phenyl-1,2-propanedione under transient and steady-state conditions: regioselectivity, enantioselectivity and catalyst deactivation. <i>Applied Catalysis A: General</i> , 2002, 235, 125-138.	2.2	27
239	Synthesis of Novel Ag Modified MCM-41 Mesoporous Molecular Sieve and Beta Zeolite Catalysts for Ozone Decomposition at Ambient Temperature. <i>Catalysis Letters</i> , 2004, 98, 57-60.	1.4	27
240	Physico-chemical and catalytic properties of Ru-MCM-41 mesoporous molecular sieve catalyst: influence of Ru modification methods. <i>Microporous and Mesoporous Materials</i> , 2004, 69, 173-179.	2.2	27
241	Heterogeneous Catalytic Production of Conjugated Linoleic Acid. <i>Organic Process Research and Development</i> , 2004, 8, 341-352.	1.3	27
242	Isomerization of n-butane to isobutane over Pt-SAPO-5, SAPO-5, Pt-H-mordenite and H-mordenite catalysts. <i>Catalysis Today</i> , 2005, 100, 355-361.	2.2	27
243	Effect of ultrasound in enantioselective hydrogenation of 1-phenyl-1,2-propanedione: comparison of catalyst activation, solvents and supports. <i>Ultrasonics Sonochemistry</i> , 2006, 13, 68-75.	3.8	27
244	Selective Oxidation of D-Galactose over Gold Catalysts. <i>ChemCatChem</i> , 2011, 3, 1789-1798.	1.8	27
245	Selective Preparation of trans-Carveol over Ceria Supported Mesoporous Materials MCM-41 and SBA-15. <i>Materials</i> , 2013, 6, 2103-2118.	1.3	27
246	Sugars and sugar derivatives in ionic liquid media obtained from lignocellulosic biomass: Comparison of capillary electrophoresis and chromatographic analysis. <i>Catalysis Today</i> , 2014, 223, 18-24.	2.2	27
247	Kinetics and modelling of furfural oxidation with hydrogen peroxide over a fibrous heterogeneous catalyst: effect of reaction parameters on yields of succinic acid. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2206-2220.	1.6	27
248	Impact of Catalyst Reduction Mode on Selective Hydrogenation of Cinnamaldehyde over Ru-Sn Sol-Gel Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , 2003, 42, 295-305.	1.8	26
249	Ag-modified H-Beta, H-MCM-41 and SiO <sub>2</sub> : Influence of support, acidity and Ag content in ozone decomposition at ambient temperature. <i>Catalysis Today</i> , 2007, 119, 342-346.	2.2	26
250	Ring-opening of decalin – Kinetic modelling. <i>Fuel</i> , 2009, 88, 366-373.	3.4	26
251	Describing the inverse dependence of hydrogen pressure by multi-site adsorption of the reactant: Hydrogenolysis of hydroxymatairesinol on a Pd/C catalyst. <i>Journal of Molecular Catalysis A</i> , 2009, 306, 33-39.	4.8	26
252	Mechanistic modelling of kinetics and mass transfer for a solid-liquid system: Leaching of zinc with ferric iron. <i>Chemical Engineering Science</i> , 2010, 65, 4460-4471.	1.9	26

#	ARTICLE	IF	CITATIONS
253	Modeling the Influence of Wood Anisotropy and Internal Diffusion on Delignification Kinetics. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 9703-9711.	1.8	26
254	Influence of the synthesis parameters on the physico-chemical and catalytic properties of cerium oxide for application in the synthesis of diethyl carbonate. <i>Materials Chemistry and Physics</i> , 2013, 143, 65-75.	2.0	26
255	Algal products beyond lipids: Comprehensive characterization of different products in direct saponification of green alga <i>Chlorella</i> sp.. <i>Algal Research</i> , 2015, 11, 156-164.	2.4	26
256	Catalytic isomerization of $\pm$ -pinene and 3-carene in the presence of modified layered aluminosilicates. <i>Molecular Catalysis</i> , 2017, 443, 193-202.	1.0	26
257	Highly selective Prins reaction over acid-modified halloysite nanotubes for synthesis of isopulegol-derived 2H-chromene compounds. <i>Journal of Catalysis</i> , 2019, 374, 360-377.	3.1	26
258	Heterogeneously Catalytic Isomerization of Linoleic Acid over Supported Ruthenium Catalysts for Production of Anticarcinogenic Food Constituents. <i>Industrial &amp; Engineering Chemistry Research</i> , 2003, 42, 718-727.	1.8	25
259	Synthesis of Chiral Catalyst Modifiers by Hydrosilylation of Cinchonidine and Their Application in the Hydrogenation of 1-Phenylpropane-1,2-dione and Ethyl Pyruvate on a Supported Pt/Al <sub>2</sub> O <sub>3</sub> Catalyst. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 2811-2821.	1.2	25
260	Effect of modifier structure in asymmetric 1-phenylpropane-1,2-dione hydrogenation. <i>Journal of Molecular Catalysis A</i> , 2005, 236, 227-238.	4.8	25
261	Kinetic behaviour of electrochemical potential in three-phase heterogeneous catalytic oxidation reactions. <i>Journal of Molecular Catalysis A</i> , 2006, 255, 199-208.	4.8	25
262	The Role of Modifier Structure in Heterogeneous Enantioselective Hydrogenation: One-to-One Interactions of 1-Phenyl-1,2-propanedione and Methyl Pyruvate with Modifiers on the Pt(111) Surface. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5128-5140.	1.5	25
263	Conformational equilibria of citral. <i>Computational and Theoretical Chemistry</i> , 2007, 814, 33-41.	1.5	25
264	On Langmuir kinetics and zero order reactions. <i>Catalysis Communications</i> , 2008, 9, 1815-1816.	1.6	25
265	Evaluation of gold on alumina catalyst deactivation dynamics during $\pm$ -pinene isomerization. <i>Chemical Engineering Journal</i> , 2011, 176-177, 42-48.	6.6	25
266	Methyl chloride synthesis over Al <sub>2</sub> O <sub>3</sub> catalyst coated microstructured reactor Thermodynamics, kinetics and mass transfer. <i>Chemical Engineering Science</i> , 2013, 95, 232-245.	1.9	25
267	Esterification of fatty acids with ethanol over layered zinc laurate and zinc stearate Kinetic modeling. <i>Fuel</i> , 2015, 153, 445-454.	3.4	25
268	Lignin isolation from spruce wood with low concentration aqueous alkali at high temperature and pressure: influence of hot-water pre-extraction. <i>Green Chemistry</i> , 2015, 17, 5058-5068.	4.6	25
269	Physico-chemical properties of MoO <sub>3</sub> /ZrO <sub>2</sub> catalysts prepared by dry mixing for isobutane alkylation and butene transformations. <i>Applied Catalysis B: Environmental</i> , 2018, 230, 246-259.	10.8	25
270	Kinetics of $\pm$ -pinene enantiomeric isomerization over clinoptilolite. <i>Applied Catalysis A: General</i> , 2000, 198, 197-206.	2.2	24



#	ARTICLE	IF	CITATIONS
271	Title is missing!. Catalysis Letters, 2002, 78, 105-110.	1.4	24
272	Platinum group metals as catalysts in enantioselective 1-phenylpropane-1,2-dione hydrogenation. Applied Catalysis A: General, 2006, 300, 147-154.	2.2	24
273	The development of the method of low-temperature peat pyrolysis on the basis of aluminosilicate catalytic system. Chemical Engineering Journal, 2007, 134, 162-167.	6.6	24
274	A Combined NMR, DFT, and X-ray Investigation of Some Cinchona Alkaloid O-Ethers. Journal of Organic Chemistry, 2008, 73, 6559-6569.	1.7	24
275	Effect of the Load Size on the Efficiency of Microwave Heating Under Stop Flow and Continuous Flow Conditions. Journal of Microwave Power and Electromagnetic Energy, 2012, 46, 83-92.	0.4	24
276	Dynamic non-isothermal trickle bed reactor with both internal diffusion and heat conduction: Sugar hydrogenation as a case study. Chemical Engineering Research and Design, 2015, 102, 171-185.	2.7	24
277	Aqueous extraction of hemicelluloses from spruce " From hot to warm. Bioresource Technology, 2016, 199, 279-282.	4.8	24
278	Preparation of octahydro-2 H -chromen-4-ol with analgesic activity from isopulegol and thiophene-2-carbaldehyde in the presence of acid-modified clays. Molecular Catalysis, 2018, 453, 139-148.	1.0	24
279	Heterogeneous Catalytic Oxidation of Furfural with Hydrogen Peroxide over Sulfated Zirconia. Industrial & Engineering Chemistry Research, 2020, 59, 13516-13527.	1.8	24
280	Kinetic Aspects of Selectivity and Stereoselectivity for the Hydrogenation of Buta-1,3-diene over a Palladium Catalyst. Industrial & Engineering Chemistry Research, 1996, 35, 703-711.	1.8	23
281	Analysis of deactivation and selectivity pattern in catalytic hydrogenation of a molecule with different functional groups: crotonaldehyde hydrogenation on Pt/SnO <sub>2</sub> . Chemical Engineering Science, 2002, 57, 2519-2529.	1.9	23
282	Interaction of kinetics and internal diffusion in complex catalytic three-phase reactions: Activity and selectivity in citral hydrogenation. Chemical Engineering Science, 2006, 61, 814-822.	1.9	23
283	On the mutual interactions between noble metal crystallites and zeolitic supports and their impacts on catalysis. Journal of Molecular Catalysis A, 2007, 264, 192-201.	4.8	23
284	Cascade approach for synthesis of R-1-phenyl ethyl acetate from acetophenone: Effect of support. Journal of Molecular Catalysis A, 2008, 285, 132-141.	4.8	23
285	Inversion of the Enantioselectivity in the Hydrogenation of ( <i>E</i> )-2,3-diphenylpropenoic Acids over Pd Modified by Cinchonidine Silyl Ethers. ACS Catalysis, 2011, 1, 1316-1326.	5.5	23
286	Pillared H-MCM-36 mesoporous and H-MCM-22 microporous materials for conversion of levoglucosan: Influence of varying acidity. Applied Catalysis A: General, 2011, 397, 13-21.	2.2	23
287	Continuous Enantioselective Hydrogenation of Ethylbenzoylformate over Pt/Al <sub>2</sub> O <sub>3</sub> Catalyst: Bed Dilution Effects and Cinchonidine Adsorption Study. Catalysis Letters, 2004, 95, 179-183.	1.4	22
288	Kinetic considerations of H <sub>2</sub> assisted hydrocarbon selective catalytic reduction of NO over Ag/Al <sub>2</sub> O <sub>3</sub> . Applied Catalysis A: General, 2006, 304, 86-92.	2.2	22

#	ARTICLE	IF	CITATIONS
289	Revealing regioselectivity in hydrogenation of 1-phenyl-1,2-propanedione on Pt catalysts. <i>Journal of Catalysis</i> , 2007, 245, 228-236.	3.1	22
290	The influence of acidity of carbon nanofibre-supported palladium catalysts in the hydrogenolysis of hydroxymatairesinol. <i>Catalysis Letters</i> , 2007, 113, 141-146.	1.4	22
291	Synthesis of peroxypropionic acid from propionic acid and hydrogen peroxide over heterogeneous catalysts. <i>Chemical Engineering Journal</i> , 2009, 147, 323-329.	6.6	22
292	Kinetic behaviour of HC-SCR over Ag/alumina catalyst using a model paraffinic second generation biodiesel compound. <i>Applied Catalysis B: Environmental</i> , 2009, 90, 603-612.	10.8	22
293	Kinetics of linoleic acid hydrogenation on Pd/C catalyst. <i>Applied Catalysis A: General</i> , 2009, 353, 166-180.	2.2	22
294	Acid hydrolysis of O-acetyl-galactoglucomannan. <i>Catalysis Science and Technology</i> , 2013, 3, 116-122.	2.1	22
295	Kinetics of Lactose Hydrogenation over Ruthenium Nanoparticles in Hypercrosslinked Polystyrene. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 14066-14080.	1.8	22
296	Oxidation of Starch by H <sub>2</sub> O <sub>2</sub> in the Presence of Iron Tetrasulfophthalocyanine Catalyst: The Effect of Catalyst Concentration, pH, Solid-Liquid Ratio, and Origin of Starch. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 9351-9358.	1.8	22
297	Preparation of carbide-derived carbon supported platinum catalysts. <i>Catalysis Today</i> , 2015, 249, 30-37.	2.2	22
298	Arabinogalactan hydrolysis and hydrolytic hydrogenation using functionalized carbon materials. <i>Catalysis Today</i> , 2015, 257, 169-176.	2.2	22
299	Solid Base Assisted <i>n</i> -Pentanol Coupling over VIII Group Metals: Elucidation of the Guerbet Reaction Mechanism by DRIFTS. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 13310-13321.	1.8	22
300	Kinetics, Modeling, and Process Design of Hydrogen Production by Aqueous Phase Reforming of Xylitol. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 13240-13253.	1.8	22
301	One-pot monoterpene alcohol amination over Au/ZrO <sub>2</sub> catalyst: Effect of the substrate structure. <i>Journal of Catalysis</i> , 2018, 360, 127-134.	3.1	22
302	Oxidative dehydrogenation of ethanol on gold: Combination of kinetic experiments and computation approach to unravel the reaction mechanism. <i>Journal of Catalysis</i> , 2021, 394, 193-205.	3.1	22
303	Conjugation of linoleic acid over a hydrogen pre-activated heterogeneous catalyst. Electronic supplementary information (ESI) available: XRD measurements. See <a href="http://www.rsc.org/suppdata/cc/b2/b201722a/">http://www.rsc.org/suppdata/cc/b2/b201722a/</a> . <i>Chemical Communications</i> , 2002, , 1142-1143.	2.2	21
304	Effect of Cinchonidine and Dissolved Oxygen in Continuous Enantioselective Hydrogenation of Ethyl Pyruvate. <i>Catalysis Letters</i> , 2004, 93, 171-176.	1.4	21
305	Advanced Kinetic Concepts and Experimental Methods for Catalytic Three-Phase Processes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2004, 43, 4540-4550.	1.8	21
306	Hydrogenation of Citral over Activated Carbon Cloth Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 5285-5290.	1.8	21

#	ARTICLE	IF	CITATIONS
307	Inverse temperature dependence due to catalyst deactivation in liquid phase citral hydrogenation over Pt/Al <sub>2</sub> O <sub>3</sub> . <i>Chemical Engineering Journal</i> , 2006, 122, 127-134.	6.6	21
308	A combination of Ag/alumina and Ag modified ZSM-5 to remove NO <sub>x</sub> and CO during lean conditions. <i>Applied Catalysis B: Environmental</i> , 2007, 70, 138-145.	10.8	21
309	Kinetic Modeling of Propene Hydroformylation with Rh/TPP and Rh/CHDPP Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 4317-4324.	1.8	21
310	From woody biomass extractives to health-promoting substances: Selective oxidation of the lignan hydroxymatairesinol to oxomatairesinol over Au, Pd, and Au@Pd heterogeneous catalysts. <i>Journal of Catalysis</i> , 2012, 291, 95-103.	3.1	21
311	Kinetic modeling of one-pot myrtenol amination over Au/ZrO <sub>2</sub> catalyst. <i>Chemical Engineering Journal</i> , 2014, 238, 164-171.	6.6	21
312	Solvent effects in catalysis: implementation for modelling of kinetics. <i>Catalysis Science and Technology</i> , 2016, 6, 5700-5713.	2.1	21
313	Acid-modified Halloysite Nanotubes as a Stereoselective Catalyst for Synthesis of 2- <i>H</i> -Chromene Derivatives by the Reaction of Isopulegol with Aldehydes. <i>ChemCatChem</i> , 2018, 10, 3950-3954.	1.8	21
314	Heterogeneous Catalytic Synthesis of Methyl Lactate and Lactic Acid from Sugars and Their Derivatives. <i>ChemSusChem</i> , 2020, 13, 4833-4855.	3.6	21
315	Enhanced H <sub>2</sub> production in the aqueous-phase reforming of maltose by feedstock pre-hydrogenation. <i>Applied Catalysis B: Environmental</i> , 2021, 281, 119469.	10.8	21
316	Mathematical modeling of <i>o</i> -xylene hydrogenation kinetics over Pd/Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Catalysis</i> , 2005, 233, 109-118.	3.1	20
317	Nanocatalysis in asymmetric hydrogenation. <i>Reaction Kinetics and Catalysis Letters</i> , 2007, 90, 19-25.	0.6	20
318	Sustainable chemical technology through catalytic multistep reactions. <i>Chemical Engineering Research and Design</i> , 2008, 86, 1002-1010.	2.7	20
319	Application of linear free-energy relationships to perhydrolysis of different carboxylic acids over homogeneous and heterogeneous catalysts. <i>Journal of Molecular Catalysis A</i> , 2009, 303, 148-155.	4.8	20
320	Transformation of levoglucosan over H-MCM-22 zeolite and H-MCM-41 mesoporous molecular sieve catalysts. <i>Biomass and Bioenergy</i> , 2011, 35, 1967-1976.	2.9	20
321	Kinetics of <i>l</i> -arabinose oxidation over supported gold catalysts with in situ catalyst electrical potential measurements. <i>Catalysis Science and Technology</i> , 2012, 2, 423-431.	2.1	20
322	Catalytic Transformation of Abietic Acid to Hydrocarbons. <i>Topics in Catalysis</i> , 2012, 55, 673-679.	1.3	20
323	Dimerization of 1-butene in liquid phase reaction: Influence of structure, pore size and acidity of Beta zeolite and MCM-41 mesoporous material. <i>Microporous and Mesoporous Materials</i> , 2012, 147, 127-134.	2.2	20
324	Green catalysis by nanoparticulate catalysts developed for flow processing? Case study of glucose hydrogenation. <i>RSC Advances</i> , 2015, 5, 15898-15908.	1.7	20

#	ARTICLE	IF	CITATIONS
325	Investigation of Polyol Adsorption on Ru, Pd, and Re Using vdW Density Functionals. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17182-17192.	1.5	20
326	Carbothermal synthesis of porous silicon carbide using mesoporous silicas. <i>Journal of Materials Science</i> , 2017, 52, 3917-3926.	1.7	20
327	Molybdenum Nitrides, Carbides and Phosphides as Highly Efficient Catalysts for the (hydro)Deoxygenation Reaction. <i>ChemistrySelect</i> , 2019, 4, 8453-8459.	0.7	20
328	Hydrocracking of hexadecane to jet fuel components over hierarchical Ru-modified faujasite zeolite. <i>Fuel</i> , 2020, 278, 118193.	3.4	20
329	Kinetics of 2-methylpentane catalytic transformations over Pt/Na- $\beta$ zeolite. <i>Applied Catalysis A: General</i> , 1999, 178, 85-95.	2.2	19
330	Influence of surface acidity in lactose oxidation over supported Pd catalysts. <i>Microporous and Mesoporous Materials</i> , 2008, 113, 122-131.	2.2	19
331	Linoleic acid isomerization over mesoporous carbon supported gold catalysts. <i>Catalysis Today</i> , 2010, 150, 32-36.	2.2	19
332	Kinetics of lactose and rhamnose oxidation over supported metal catalysts. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 9268.	1.3	19
333	Extraction of Spent Bleaching Earth in the Production of Renewable Diesel. <i>Chemical Engineering and Technology</i> , 2015, 38, 769-776.	0.9	19
334	Structure Sensitivity in Catalytic Hydrogenation of Galactose and Arabinose over Ru/C Catalysts. <i>Catalysis Letters</i> , 2016, 146, 1291-1299.	1.4	19
335	Acid hydrolysis of <i>O</i> -acetyl-galactoglucomannan in a continuous tube reactor: a new approach to sugar monomer production. <i>Holzforschung</i> , 2016, 70, 187-194.	0.9	19
336	Fluidized-Bed Isobutane Dehydrogenation over Alumina-Supported $\text{Ga}_2\text{O}_3$ and $\text{Ga}_2\text{O}_3\text{-Cr}_2\text{O}_3$ Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 927-938.	1.8	19
337	Clay nanotubes catalyzed solvent-free synthesis of octahydro-2H-chromenols with pharmaceutical potential from (-)-isopulegol and ketones. <i>Journal of Catalysis</i> , 2019, 380, 145-152.	3.1	19
338	Preparation of $\beta$ - $\text{Al}_2\text{O}_3/\pm$ - $\text{Al}_2\text{O}_3$ ceramic foams as catalyst carriers via the replica technique. <i>Catalysis Today</i> , 2022, 383, 64-73.	2.2	19
339	Mono- and Bimetallic Ni-Co Catalysts in Dry Reforming of Methane. <i>ChemistrySelect</i> , 2021, 6, 3424-3434.	0.7	19
340	Continuous Liquid-Phase Epoxidation of Ethylene with Hydrogen Peroxide on a Titanium-Silicate Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 9429-9436.	1.8	19
341	Kinetics of Thymol Hydrogenation over a Ni-Cr $_2$ O $_3$ Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , 1995, 34, 1539-1547.	1.8	18
342	Modelling of catalyst deactivation in liquid phase reactions: citral hydrogenation on Ru/Al $_2$ O $_3$ . <i>Reaction Kinetics and Catalysis Letters</i> , 2003, 78, 251-257.	0.6	18

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343	Linoleic acid isomerization on Ru/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Chemical Engineering Journal</i> , 2005, 115, 13-22.	6.6	18
344	Reactions of hydroxymatairesinol over supported palladium catalysts. <i>Journal of Catalysis</i> , 2006, 238, 301-308.	3.1	18
345	Selective catalytic reduction of NO <sub>x</sub> over Ag/Al <sub>2</sub> O <sub>3</sub> using various bio-diesels as reducing agents. <i>Topics in Catalysis</i> , 2007, 42-43, 399-403.	1.3	18
346	Zeolite-bentonite hybrid catalysts for the pyrolysis of woody biomass. <i>Studies in Surface Science and Catalysis</i> , 2008, 174, 1069-1074.	1.5	18
347	Experimental and Theoretical Analysis of Asymmetric Induction in Heterogeneous Catalysis: Diastereoselective Hydrogenation of Chiral $\pm$ -Hydroxyketones over Pt Catalyst. <i>Journal of the American Chemical Society</i> , 2009, 131, 4449-4462.	6.6	18
348	On quantitative description of metal particles size effect in catalytic kinetics. <i>Kinetics and Catalysis</i> , 2010, 51, 828-831.	0.3	18
349	Revisiting shrinking particle and product layer models for fluid–solid reactions – From ideal surfaces to real surfaces. <i>Chemical Engineering and Processing: Process Intensification</i> , 2011, 50, 1076-1084.	1.8	18
350	Common potholes in modeling solid–liquid reactions – methods for avoiding them. <i>Chemical Engineering Science</i> , 2011, 66, 4459-4467.	1.9	18
351	Deactivation in Continuous Deoxygenation of C18-Fatty Feedstock over Pd/Sibunit. <i>Topics in Catalysis</i> , 2013, 56, 714-724.	1.3	18
352	Experimental and Modeling Study of Catalytic Hydrogenation of Glucose to Sorbitol in a Continuously Operating Packed-Bed Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 7690-7703.	1.8	18
353	Properties of adsorbents used for bleaching of vegetable oils and animal fats. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1579-1591.	1.6	18
354	One-pot synthesis of (R)-2-acetoxy-1-indanone from 1,2-indanedione combining metal catalyzed hydrogenation and chemoenzymatic dynamic kinetic resolution. <i>Catalysis Science and Technology</i> , 2015, 5, 150-160.	2.1	18
355	Ethene oxychlorination over CuCl <sub>2</sub> / $\gamma$ -Al <sub>2</sub> O <sub>3</sub> catalyst in micro- and millistructured reactors. <i>Journal of Catalysis</i> , 2018, 364, 334-344.	3.1	18
356	Synthesis of menthol from citronellal over supported Ru- and Pt-catalysts in continuous flow. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 2156-2169.	1.9	18
357	Bayesian Statistics to Elucidate the Kinetics of $\gamma$ -Valerolactone from <i>n</i> -Butyl Levulinate Hydrogenation over Ru/C. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 11725-11736.	1.8	18
358	Non-equilibrium effects in the liquid-phase catalytic hydrogenation. <i>Catalysis Today</i> , 1995, 24, 35-39.	2.2	17
359	Influence of catalyst pretreatment on $\alpha$ -pinene isomerization over natural clays. <i>Reaction Kinetics and Catalysis Letters</i> , 2002, 75, 231-237.	0.6	17
360	Kinetics and stereoselectivity of <i>o</i> -xylene hydrogenation over Pd/Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Molecular Catalysis A</i> , 2003, 193, 237-250.	4.8	17

#	ARTICLE	IF	CITATIONS
361	A Novel Radioisotope Method for Studying Catalytic Transformations over Alumina, H-ZSM-5 and H-Beta Zeolite Catalysts: Investigation of Conversion of <sup>11</sup> C-Labeled Methanol to <sup>11</sup> C-Labeled Dimethyl Ether and Hydrocarbons. <i>Catalysis Letters</i> , 2004, 93, 101-107.	1.4	17
362	Structured but not over-structured: Woven active carbon fibre matt catalyst. <i>Catalysis Today</i> , 2005, 105, 325-330.	2.2	17
363	Enzymatic kinetics. , 2005, , 189-224.		17
364	Modeling and Scale-up of Sitosterol Hydrogenation Process:Â From Laboratory Slurry Reactor to Plant Scale. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 7067-7076.	1.8	17
365	HeterogeneousÂ photocatalyticÂ kinetics: beyond the adsorption/desorption equilibrium concept. <i>Reaction Kinetics and Catalysis Letters</i> , 2006, 89, 277-284.	0.6	17
366	Ethyl pyruvate hydrogenation under microwave irradiation. <i>Chemical Engineering Journal</i> , 2007, 126, 103-109.	6.6	17
367	Intrinsic Metal Size Effect on Adsorption of Organic Molecules on Platinum. <i>Journal of Physical Chemistry C</i> , 2008, 112, 6822-6831.	1.5	17
368	Synthesis of Ru-modified MCM-41 Mesoporous Material, Y and Beta Zeolite Catalysts for Ring Opening of Decalin. <i>Topics in Catalysis</i> , 2009, 52, 380-386.	1.3	17
369	One-pot utilization of heterogeneous and enzymatic catalysis: Synthesis of R-1-phenylethyl acetate from acetophenone. <i>Catalysis Today</i> , 2009, 140, 70-73.	2.2	17
370	Isomerization of bicyclic terpene epoxides into allylic alcohols without changing of the initial structure. <i>Journal of Molecular Catalysis A</i> , 2014, 388-389, 162-166.	4.8	17
371	Soot particulates abatement in diesel engine exhaust by catalytic oxidation followed their trapping in filters. <i>Chemical Engineering Journal</i> , 2015, 269, 416-424.	6.6	17
372	Influence of two different alcohols in the esterification of fatty acids over layered zinc stearate/palmitate. <i>Bioresource Technology</i> , 2015, 193, 337-344.	4.8	17
373	Kinetics of the One-Pot Transformation of Citronellal to Menthols on Ru/H-BEA Catalysts. <i>Organic Process Research and Development</i> , 2016, 20, 1647-1653.	1.3	17
374	Direct hydrodeoxygenation of algal lipids extracted from <i>Chlorella</i> alga. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 741-748.	1.6	17
375	Influence of the support of copper catalysts on activity and 1,2-dichloroethane selectivity in ethylene oxychlorination. <i>Applied Catalysis A: General</i> , 2018, 556, 41-51.	2.2	17
376	Reductive N-methylation of amines using dimethyl carbonate and molecular hydrogen: Mechanistic insights through kinetic modelling. <i>Chemical Engineering Journal</i> , 2018, 351, 1129-1136.	6.6	17
377	Hexadecane hydrocracking for production of jet fuels from renewable diesel over proton and metal modified H-Beta zeolites. <i>Molecular Catalysis</i> , 2019, 476, 110515.	1.0	17
378	On Apparent Activation Energy of Structure Sensitive Heterogeneous Catalytic Reactions. <i>Catalysis Letters</i> , 2019, 149, 1455-1463.	1.4	17

#	ARTICLE	IF	CITATIONS
379	Synthesis and Characterization of Palladium Supported Amino Functionalized Magnetic-MOF-MIL-101 as an Efficient and Recoverable Catalyst for Mizoroki's Heck Cross-Coupling. <i>Catalysis Letters</i> , 2020, 150, 2617-2629.	1.4	17
380	Deactivation and Selectivity Pattern in Crotonaldehyde Hydrogenation. <i>Chemical Engineering and Technology</i> , 1998, 21, 605-609.	0.9	16
381	Gas-phase hydrogenation of ethylbenzene over Ni.. <i>Applied Catalysis A: General</i> , 2000, 201, 55-59.	2.2	16
382	Deactivation in liquid-phase hydrogenation of cinnamaldehyde over aluminosilicate-supported ruthenium and platinum catalysts. <i>Chemical Engineering Journal</i> , 2004, 103, 35-43.	6.6	16
383	Proton affinities of ketones, vicinal diketones and $\alpha$ -keto esters: a computational study. <i>Tetrahedron</i> , 2005, 61, 8109-8119.	1.0	16
384	Engineering HC-SCR: Improved Low Temperature Performance through a Cascade Concept. <i>Catalysis Letters</i> , 2005, 105, 133-138.	1.4	16
385	Reply to "Comment on "Heterogeneous Catalytic Deoxygenation of Stearic Acid for Production of Biodiesel". <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 6875-6875.	1.8	16
386	A study on the dimerization of 1-butene over Beta zeolite. <i>Topics in Catalysis</i> , 2007, 45, 187-190.	1.3	16
387	Heterogeneous catalysis for transformation of biomass derived compounds beyond fuels: Synthesis of monoterpenoid dioxinols with analgesic activity. <i>Journal of Molecular Catalysis A</i> , 2015, 397, 48-55.	4.8	16
388	Vanillin Hydrodeoxygenation: Kinetic Modelling and Solvent Effect. <i>Catalysis Letters</i> , 2018, 148, 2856-2868.	1.4	16
389	Experimental and theoretical analysis of particle size effect in liquid-phase hydrogenation of diphenylacetylene. <i>Chemical Engineering Journal</i> , 2021, 404, 126409.	6.6	16
390	Kinetics of buta-1,3-diene hydrogenation over palladium catalysts. <i>Chemical Engineering Science</i> , 1996, 51, 2879-2884.	1.9	15
391	Kinetics of mesitylene hydrogenation on Ni/Al <sub>2</sub> O <sub>3</sub> . <i>Applied Catalysis A: General</i> , 1999, 185, 131-136.	2.2	15
392	Ab initio study of solvent effects on reactant's modifier complexes in enantioselective hydrogenation. <i>Catalysis Today</i> , 2005, 100, 373-377.	2.2	15
393	Solubility of gases in a hydroformylation solvent. <i>Chemical Engineering Science</i> , 2006, 61, 3698-3704.	1.9	15
394	Kinetics of the biofuels-assisted SCR of NO <sub>x</sub> over Ag/alumina-coated microchannels. <i>Chemical Engineering Journal</i> , 2009, 154, 34-44.	6.6	15
395	Selective Catalytic Reduction of NO <sub>x</sub> Over Nano-Sized Gold Catalysts Supported on Alumina and Titania and Over Bimetallic Gold-Silver Catalysts Supported on Alumina. <i>Topics in Catalysis</i> , 2009, 52, 1762-1765.	1.3	15
396	Confined But-2-ene Catalytic Isomerization Inside H-ZSM-5 Models: A DFT Study. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 1274-1283.	2.3	15

#	ARTICLE	IF	CITATIONS
397	Dynamic Kinetic Resolution of <i>rac</i> -2-Hydroxy-1-indanone by using a Heterogeneous Ru(OH) <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> Racemization Catalyst and Lipase. ChemCatChem, 2010, 2, 1615-1621.	1.8	15
398	Thermodynamic analysis of the cluster size evolution in catalyst preparation by deposition-precipitation. Reaction Kinetics, Mechanisms and Catalysis, 2011, 104, 259-266.	0.8	15
399	Evolution of carbonaceous deposits on H-mordenite and Pt-doped H-mordenite during n-butane conversion. Journal of Catalysis, 2012, 296, 132-142.	3.1	15
400	Hydrogenation of Citral Over Carbon Supported Iridium Catalysts. Catalysis Letters, 2012, 142, 690-697.	1.4	15
401	Solvent Effects in the Enantioselective Hydrogenation of Ethyl Benzoylformate. Catalysis Letters, 2013, 143, 1051-1060.	1.4	15
402	Maltose hydrogenation over ruthenium nanoparticles impregnated in hypercrosslinked polystyrene. Chemical Engineering Journal, 2015, 282, 37-44.	6.6	15
403	Selective carvone hydrogenation to dihydrocarvone over titania supported gold catalyst. Catalysis Today, 2015, 241, 189-194.	2.2	15
404	Recycling of Wastes from the Production of Alumina-Based Catalyst Carriers. Industrial & Engineering Chemistry Research, 2016, 55, 9101-9108.	1.8	15
405	Controlled synthesis of PVP-based carbon-supported Ru nanoparticles: synthesis approaches, characterization, capping agent removal and catalytic behavior. Catalysis Science and Technology, 2016, 6, 8490-8504.	2.1	15
406	On Spatial Control in Heterogeneous Multifunctional Catalysts. Catalysis Letters, 2017, 147, 613-621.	1.4	15
407	Hydrogen production from sucrose via aqueous-phase reforming. International Journal of Hydrogen Energy, 2019, 44, 14605-14623.	3.8	15
408	Study of the Product Distribution in the Epoxidation of Propylene over TS-1 Catalyst in a Trickle-Bed Reactor. Industrial & Engineering Chemistry Research, 2021, 60, 2430-2438.	1.8	15
409	Influence of the initial state of ZrO <sub>2</sub> on genesis, activity and stability of Ni/ZrO <sub>2</sub> catalysts for steam reforming of glycerol. Applied Catalysis A: General, 2021, 616, 118098.	2.2	15
410	Kinetics of 4-tert-butylphenol hydrogenation over rhodium. Chemical Engineering and Technology, 1997, 20, 144-148.	0.9	14
411	Investigation of NO Reduction by H <sub>2</sub> on Pd Monolith with Transient and Isotopic Exchange Techniques II. H <sub>2</sub> /D <sub>2</sub> Exchange in the Reduction of NO. Journal of Catalysis, 2002, 210, 30-38.	3.1	14
412	From a fixed bed Ag-alumina catalyst to a modified reactor design: how to enhance the crucial heterogeneous-homogeneous reactions in HC-SCR. Chemical Engineering Science, 2004, 59, 5277-5282.	1.9	14
413	HC-SCR of NO <sub>x</sub> over Ag/alumina: a combination of heterogeneous and homogeneous radical reactions?. Catalysis Today, 2005, 100, 229-236.	2.2	14
414	Lactose oxidation over palladium catalysts supported on active carbons and on carbon nanofibres. Research on Chemical Intermediates, 2009, 35, 155-174.	1.3	14



#	ARTICLE	IF	CITATIONS
415	Modelling of transient kinetics in catalytic three-phase reactors: Enantioselective hydrogenation. <i>Chemical Engineering Science</i> , 2010, 65, 1076-1087.	1.9	14
416	Catalytic pyrolysis of woody biomass. <i>Biofuels</i> , 2010, 1, 261-273.	1.4	14
417	Opening of monoterpene epoxide to a potent anti-Parkinson compound of para-menthane structure over heterogeneous catalysts. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2013, 110, 449-458.	0.8	14
418	Amine Solutions for Biogas Upgrading: Ideal versus Non-Ideal Absorption Isotherms. <i>Chemical Engineering and Technology</i> , 2013, 36, 740-748.	0.9	14
419	On Synthesis and Characterization of Sulfated Alumina-Zirconia Catalysts for Isobutene Alkylation. <i>Catalysis Letters</i> , 2015, 145, 1651-1659.	1.4	14
420	Promoting effect of alcohols and formic acid on Au-catalyzed one-pot myrtenol amination. <i>Molecular Catalysis</i> , 2017, 433, 414-419.	1.0	14
421	Direct Amination of Dodecanol over Noble and Transition Metal Supported Silica Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 12878-12887.	1.8	14
422	Valorization of Biomass Derived Terpene Compounds by Catalytic Amination. <i>Catalysts</i> , 2018, 8, 365.	1.6	14
423	Modified Ag/TiO <sub>2</sub> systems: Promising catalysts for liquid-phase oxidation of alcohols. <i>Fuel</i> , 2018, 234, 110-119.	3.4	14
424	Catalytic oxidation kinetics of arabinose on supported gold nanoparticles. <i>Chemical Engineering Journal</i> , 2019, 370, 952-961.	6.6	14
425	Aldol Condensation of Cyclopentanone with Valeraldehyde Over Metal Oxides. <i>Catalysis Letters</i> , 2019, 149, 1383-1395.	1.4	14
426	Isomerization of $\pm$ -Pinene Oxide: Solvent Effects, Kinetics and Thermodynamics. <i>Catalysis Letters</i> , 2019, 149, 203-214.	1.4	14
427	Kinetic modeling of isobutane dehydrogenation over Ga <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Chemical Engineering Journal</i> , 2020, 381, 122741.	6.6	14
428	Aqueous phase reforming of alcohols over a bimetallic Pt-Pd catalyst in the presence of formic acid. <i>Chemical Engineering Journal</i> , 2020, 398, 125541.	6.6	14
429	Application of microreactor technology to dehydration of bio-ethanol. <i>Chemical Engineering Science</i> , 2021, 229, 116030.	1.9	14
430	Parameter estimation in kinetic models of complex heterogeneous catalytic reactions using Bayesian statistics. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2021, 133, 1-15.	0.8	14
431	Toluene and methylcyclohexane adsorption on nickel catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , 1997, 61, 227-236.	0.6	13
432	Effect of modifier structure in the enantioselective hydrogenation of 1-phenyl-1,2-propanedione. <i>Reaction Kinetics and Catalysis Letters</i> , 2002, 75, 21-30.	0.6	13

#	ARTICLE	IF	CITATIONS
433	A highly stable and selective Pt-modified mordenite catalyst for the skeletal isomerization of n-butane. <i>Applied Catalysis A: General</i> , 2005, 284, 223-230.	2.2	13
434	Novel woven active carbon fiber catalyst in the hydrogenation of citral. <i>Catalysis Today</i> , 2005, 102-103, 128-132.	2.2	13
435	Influence of Reaction Parameters on the Hydrogenolysis of Hydroxymatairesinol Over Carbon Nanofibre Supported Palladium Catalysts. <i>Catalysis Letters</i> , 2008, 125, 8-13.	1.4	13
436	Dissolution of boehmite in sodium hydroxide at ambient pressure: Kinetics and modelling. <i>Hydrometallurgy</i> , 2010, 102, 22-30.	1.8	13
437	On Cluster Size Dependent Activity and Selectivity in Heterogeneous Catalysis. <i>Catalysis Letters</i> , 2012, 142, 1279-1285.	1.4	13
438	Ethylene oxide " kinetics and mechanism. <i>Current Opinion in Chemical Engineering</i> , 2012, 1, 321-327.	3.8	13
439	Oxygen-Assisted Hydroxymatairesinol Dehydrogenation: A Selective Secondary-Alcohol Oxidation over a Gold Catalyst. <i>Chemistry - A European Journal</i> , 2013, 19, 4577-4585.	1.7	13
440	Hydrogenation of 2-methylindole using supported metal catalysts. <i>Catalysis Communications</i> , 2014, 56, 41-44.	1.6	13
441	Ethylene epoxidation over supported silver catalysts " influence of catalyst pretreatment on conversion and selectivity. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 1549-1557.	1.6	13
442	Synthesis and Characterization Ru-C/SiO <sub>2</sub> Aerogel Catalysts for Sugar Hydrogenation Reactions. <i>Catalysis Letters</i> , 2018, 148, 3514-3523.	1.4	13
443	Kinetics of Catalytic Wet Peroxide Oxidation of Phenolics in Olive Oil Mill Wastewaters over Copper Catalysts. <i>ACS Omega</i> , 2018, 3, 7247-7260.	1.6	13
444	Heterogeneously Catalyzed $\gamma$ -Valerolactone Hydrogenation into 1,4-Pentanediol in Milder Reaction Conditions. <i>Reactions</i> , 2020, 1, 54-71.	0.9	13
445	Continuous Hydrogenation of Monomeric Sugars and Binary Sugar Mixtures on a Ruthenium Catalyst Supported by Carbon-Coated Open-Cell Aluminum Foam. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 13450-13459.	1.8	13
446	Graphitic Carbon Nitride as a Sustainable Catalyst for Selective Ethanol Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 5128-5137.	3.2	13
447	Hydrodeoxygenation of Isoeugenol over Carbon-Supported Pt and Pt-Re Catalysts for Production of Renewable Jet Fuel. <i>Energy &amp; Fuels</i> , 2021, 35, 17755-17768.	2.5	13
448	Liquid-phase stereoselective thymol hydrogenation over supported nickel catalysts. <i>Catalysis Letters</i> , 1994, 29, 57-67.	1.4	12
449	Kinetics of liquid-phase cyclohexanone ammoximation over a titanium silicate. <i>Chemical Engineering and Technology</i> , 1997, 20, 43-46.	0.9	12
450	Title is missing!. <i>Reaction Kinetics and Catalysis Letters</i> , 2003, 78, 3-10.	0.6	12

#	ARTICLE	IF	CITATIONS
451	The Effect of Chemical Reducing Agents in the Synthesis of Sol-Gel Ru-Sn Catalysts: Selective Hydrogenation of Cinnamaldehyde. <i>Journal of Sol-Gel Science and Technology</i> , 2004, 30, 187-195.	1.1	12
452	Deactivation in liquid-phase hydrogenation. <i>Reaction Kinetics and Catalysis Letters</i> , 2004, 83, 205-212.	0.6	12
453	Physico-chemical and catalytic properties of Zr- and Cu <sup>2+</sup> -Zr ion-exchanged H-MCM-41. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 4062-4069.	1.3	12
454	n-Butane isomerization over Pt <sup>2+</sup> -H <sup>+</sup> -MCM-41. <i>Catalysis Communications</i> , 2004, 5, 15-19.	1.6	12
455	Improved kinetic data from analysis of complex hydrocarbon mixtures by using SIMCA. <i>Analytica Chimica Acta</i> , 2005, 537, 339-348.	2.6	12
456	Quantification of rate acceleration in asymmetric catalytic hydrogenation. <i>Journal of Molecular Catalysis A</i> , 2008, 289, 91-94.	4.8	12
457	Kinetics of Catalytic Reactions on Nanoclusters. <i>Langmuir</i> , 2010, 26, 4854-4859.	1.6	12
458	Reaction Routes in Selective Ring Opening of Naphthenes. <i>Topics in Catalysis</i> , 2010, 53, 1172-1175.	1.3	12
459	Kinetic modelling of regioselectivity in alkenes hydroformylation over rhodium. <i>Journal of Molecular Catalysis A</i> , 2010, 315, 148-154.	4.8	12
460	Palladium catalysts supported on N-functionalized hollow vapor-grown carbon nanofibers: The effect of the basic support and catalyst reduction temperature. <i>Applied Catalysis A: General</i> , 2011, 408, 137-147.	2.2	12
461	Catalytic Pyrolysis of Lignocellulosic Biomass. , 2013, , 137-159.		12
462	Kinetics and catalyst deactivation in the enantioselective hydrogenation of ethyl benzoylformate over Pt/Al <sub>2</sub> O <sub>3</sub> . <i>Catalysis Science and Technology</i> , 2014, 4, 170-178.	2.1	12
463	Cluster Size Dependent Kinetics: Analysis of Different Reaction Mechanisms. <i>Catalysis Letters</i> , 2015, 145, 1948-1954.	1.4	12
464	Application of film theory on the reactions of solid particles with liquids: Shrinking particles with changing liquid films. <i>Chemical Engineering Science</i> , 2017, 160, 161-170.	1.9	12
465	Selectivity control in one-pot myrtenol amination over Au/ZrO <sub>2</sub> by molecular hydrogen addition. <i>Journal of Molecular Catalysis A</i> , 2017, 426, 60-67.	4.8	12
466	Kinetic modelling of heterogeneous catalytic oxidation of furfural with hydrogen peroxide to succinic acid. <i>Chemical Engineering Journal</i> , 2020, 382, 122811.	6.6	12
467	Cascade transformations of (±)-citronellal to menthol over extruded Ru-MCM-41 catalysts in a continuous reactor. <i>Catalysis Science and Technology</i> , 2020, 10, 8108-8119.	2.1	12
468	Selectivity of the Lindlar catalyst in alkyne semi-hydrogenation: a direct liquid-phase adsorption study. <i>Catalysis Science and Technology</i> , 2021, 11, 6205-6216.	2.1	12

#	ARTICLE	IF	CITATIONS
469	Hierarchical Beta Zeolites As Catalysts in $\pm$ -Pinene Oxide Isomerization. ACS Sustainable Chemistry and Engineering, 2022, 10, 6642-6656.	3.2	12
470	Kinetic Modeling of Enantioselective Hydrogenation. Industrial & Engineering Chemistry Research, 1997, 36, 4784-4790.	1.8	11
471	Dialkylbenzene hydrogenation: Kinetic analysis of rollover mechanism. Reaction Kinetics and Catalysis Letters, 1997, 60, 57-64.	0.6	11
472	Influence of mass transfer on regio- and enantioselectivity in hydrogenation of 1-phenyl-1,2-propanedione over modified Pt catalysts. Catalysis Today, 2003, 79-80, 189-193.	2.2	11
473	One-pot citral transformation to menthol over bifunctional micro- and mesoporous metal modified catalysts: Effect of catalyst support and metal. Journal of Molecular Catalysis A, 2005, , .	4.8	11
474	Kinetic Aspects of Nonlinear Phenomena in Heterogeneous Enantioselective Catalysis. Catalysis Letters, 2006, 109, 125-131.	1.4	11
475	Interaction of Cinchonidine and 1-Phenyl-1,2-Propanedione on the Surface of a Chirally Modified Pt/Al <sub>2</sub> O <sub>3</sub> Hydrogenation Catalyst. Journal of Physical Chemistry C, 2007, 111, 9374-9383.	1.5	11
476	Kinetic aspects of stereoselectivity in hydrogenation of fatty acids. Journal of Molecular Catalysis A, 2008, 286, 156-161.	4.8	11
477	Size dependent interface energy and catalytic kinetics on non-ideal surfaces. Reaction Kinetics and Catalysis Letters, 2009, 97, 165-171.	0.6	11
478	Experimental and modelling aspects in microstructured reactors applied to environmental catalysis. Catalysis Today, 2009, 147, S149-S155.	2.2	11
479	Modelling of enantioselective and racemic hydrogenation of ethyl pyruvate on a Pt/Al <sub>2</sub> O <sub>3</sub> catalyst in the presence of microwave irradiation. Chemical Engineering and Processing: Process Intensification, 2009, 48, 837-845.	1.8	11
480	$\alpha$ -Arabinose Conformers Adsorption on Ruthenium Surfaces: A DFT Study. Journal of Physical Chemistry C, 2012, 116, 14908-14916.	1.5	11
481	Interconversion of Lactose to Lactulose in Alkaline Environment: Comparison of Different Catalysis Concepts. Topics in Catalysis, 2013, 56, 839-845.	1.3	11
482	MODELING OF DRUG DISSOLUTION KINETICS WITH SIGMOIDAL BEHAVIOR FROM ORDERED MESOPOROUS SILICA. Chemical Engineering Communications, 2014, 201, 579-592.	1.5	11
483	Revisiting the dissolution kinetics of limestone - experimental analysis and modeling. Journal of Chemical Technology and Biotechnology, 2016, 91, 1517-1531.	1.6	11
484	High purity fructose from inulin with heterogeneous catalysis - kinetics and modelling. Journal of Chemical Technology and Biotechnology, 2018, 93, 224-232.	1.6	11
485	Oxidation of a wood extractive betulin to biologically active oxo-derivatives using supported gold catalysts. Green Chemistry, 2019, 21, 3370-3382.	4.6	11
486	Stereoselectivity Inversion by Water Addition in the SO <sub>3</sub> H catalyzed Tandem Prins-Ritter Reaction for Synthesis of 4-amidotetrahydropyran Derivatives. ChemCatChem, 2020, 12, 2605-2609.	1.8	11

#	ARTICLE	IF	CITATIONS
487	Engineering Catalysis. , 2020, , .		11
488	The physicochemical and catalytic properties of clay extrudates in cyclization of citronellal. Applied Catalysis A: General, 2021, , 118426.	2.2	11
489	Citral-to-Menthol Transformations in a Continuous Reactor over Ni/Mesoporous Aluminosilicate Extrudates Containing a Sepiolite Clay Binder. Organic Process Research and Development, 2022, 26, 387-403.	1.3	11
490	Synergy of Acidity and Morphology of Micro-/Mesoporous Materials in the Solid-Acid Alkylation of Toluene with 1-Decene. Industrial & Engineering Chemistry Research, 2022, 61, 1994-2009.	1.8	11
491	Structure insensitivity: Application of the surface electronic gas model. Catalysis Letters, 1993, 22, 157-164.	1.4	10
492	Kinetics of the liquid-phase stereoselective hydrogenation of 4-tertbutylphenol over rhodium catalyst. Studies in Surface Science and Catalysis, 1993, 78, 243-250.	1.5	10
493	On the kinetic coupling and mechanism of aromatic ring hydrogenation. Reaction Kinetics and Catalysis Letters, 1998, 63, 47-51.	0.6	10
494	Gas-Phase Hydrogenation of o-Xylene over Pt/Knitted Silica-Fiber Catalysts. Industrial & Engineering Chemistry Research, 2003, 42, 3230-3236.	1.8	10
495	Linoleic acid isomerization on Ru/Al <sub>2</sub> O <sub>3</sub> catalyst. Chemical Engineering Journal, 2005, 115, 23-43.	6.6	10
496	Dynamic Modeling of Catalyst Deactivation in Fixed-Bed Reactors:Â Skeletal Isomerization of 1-Pentene on Ferrierite. Industrial & Engineering Chemistry Research, 2006, 45, 558-566.	1.8	10
497	Letter to the Editor   Journal of Catalysis - Volume 251, Issue 1. Journal of Catalysis, 2007, 251, 244-245.	3.1	10
498	On the validity of Langmuir adsorption on supported nanoparticles. Reaction Kinetics and Catalysis Letters, 2007, 91, 37-43.	0.6	10
499	One-pot chemo-biocatalytic synthesis of R-1-phenylethyl acetate from acetophenone hydrogenation over Pd/Al <sub>2</sub> O <sub>3</sub> catalyst. Applied Catalysis A: General, 2008, 350, 24-29.	2.2	10
500	Reaction Kinetics and Mechanism of Sulfuric Acidâ€Catalyzed Acetolysis of Acylated Methyl $\beta$ -D-Ribofuranosides. European Journal of Organic Chemistry, 2009, 2009, 5666-5676.	1.2	10
501	Pd/H-Beta catalysts: Characterization and reactivity in piperonyl alcohol selective oxidation. Applied Catalysis A: General, 2009, 359, 144-150.	2.2	10
502	Lactose oxidation kinetics with oxygen in catalyst-solution-gas three-phase system with simultaneous electrical potential measurement of supported gold catalyst. Russian Journal of Electrochemistry, 2009, 45, 1017-1026.	0.3	10
503	A Novel Method of Quantifying the u-Shaped Pores in SBA-15. Journal of Physical Chemistry C, 2009, 113, 20349-20354.	1.5	10
504	Catalysis for Lignocellulosic Biomass Processing: Methodological Aspects. Catalysis Letters, 2012, 142, 676-689.	1.4	10

#	ARTICLE	IF	CITATIONS
505	Esterification of Fatty Acids and Short-Chain Carboxylic Acids with Stearyl Alcohol and Sterols. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 537-545.	3.2	10
506	$\alpha$ -D-Glucopyranose Adsorption on a Pd <sub>30</sub> Cluster Supported on Boron Nitride Nanotube. <i>Topics in Catalysis</i> , 2016, 59, 1178-1184.	1.3	10
507	Two-step synthesis of monoterpenoid dioxinols exhibiting analgesic activity from isopulegol and benzaldehyde over heterogeneous catalysts. <i>Catalysis Today</i> , 2017, 279, 56-62.	2.2	10
508	New insights in evaluation of acid sites in micro-mesoporous zeolite-like materials using potentiometric titration method. <i>Applied Catalysis A: General</i> , 2017, 543, 34-42.	2.2	10
509	Gold catalyzed one-pot myrtenol amination: Effect of catalyst redox activation. <i>Catalysis Today</i> , 2017, 279, 63-70.	2.2	10
510	Reductive Amination of Ketones with Benzylamine Over Gold Supported on Different Oxides. <i>Catalysis Letters</i> , 2019, 149, 3432-3446.	1.4	10
511	Prins cyclisation of ( $\alpha$ )-isopulegol with benzaldehyde over ZSM-5 based micro-mesoporous catalysts for production of pharmaceuticals. <i>Chinese Journal of Catalysis</i> , 2019, 40, 1713-1720.	6.9	10
512	Experimental studies and kinetic regularities of isobutane dehydrogenation over Ga <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> . <i>Chemical Engineering Journal</i> , 2019, 372, 1194-1204.	6.6	10
513	Mesolevel Bifunctional Catalysis. <i>Kinetics and Catalysis</i> , 2020, 61, 80-92.	0.3	10
514	Glucose transformations over a mechanical mixture of ZnO and Ru/C catalysts: Product distribution, thermodynamics and kinetics. <i>Chemical Engineering Journal</i> , 2021, 405, 126945.	6.6	10
515	Catalytic transformations of citral in a continuous flow over bifunctional Ru-MCM-41 extrudates. <i>Catalysis Science and Technology</i> , 2021, 11, 2873-2884.	2.1	10
516	Catalytic Transformation of Biomass-Derived 5-Hydroxymethylfurfural over Supported Bimetallic Iridium-Based Catalysts. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9657-9678.	1.5	10
517	One-pot amination of aldehydes and ketones over heterogeneous catalysts for production of secondary amines. <i>Catalysis Reviews - Science and Engineering</i> , 2023, 65, 501-568.	5.7	10
518	Biohydrogen from dilute side streams - Influence of reaction conditions on the conversion and selectivity in aqueous phase reforming of xylitol. <i>Biomass and Bioenergy</i> , 2020, 138, 105590.	2.9	10
519	Catalytic decomposition of formic acid in a fixed bed reactor – an experimental and modelling study. <i>Catalysis Today</i> , 2022, 387, 128-139.	2.2	10
520	Isothermal multiplicity in catalytic surface reactions with coverage dependent parameters – Case of polyatomic species. <i>Chemical Engineering Science</i> , 1996, 51, 55-62.	1.9	9
521	Computation of reaction rates for catalytic reactions on inhomogeneous surfaces with multicomponent chemisorption. <i>Chemical Engineering Science</i> , 1996, 51, 155-158.	1.9	9
522	Kinetics and Stereoselectivity in Gas-Phase Hydrogenation of Alkylbenzenes Over Ni/Al <sub>2</sub> O <sub>3</sub> . <i>Reaction Kinetics and Catalysis Letters</i> , 2000, 71, 47-54.	0.6	9

#	ARTICLE	IF	CITATIONS
523	Mechanisms of Asymmetric Heterogeneous Catalysis1. Kinetics and Catalysis, 2003, 44, 323-333.	0.3	9
524	Gas-phase hydrogenation of 4-tert-butylphenol over Pt/SiO <sub>2</sub> . Journal of Catalysis, 2004, 227, 60-67.	3.1	9
525	Kinetics and modeling of H <sub>2</sub> /D <sub>2</sub> exchange over Ag/Al <sub>2</sub> O <sub>3</sub> . Applied Catalysis A: General, 2004, 273, 303-307.	2.2	9
526	Liquid-Phase Hydrogenation of Cinnamaldehyde over a Ru-Sn Sol-Gel Catalyst. 2. Kinetic Modeling. Industrial & Engineering Chemistry Research, 2004, 43, 2039-2048.	1.8	9
527	Mechanism of the skeletal isomerisation of linear butenes over ferrierite: analysis of side reactions. Catalysis Today, 2005, 100, 363-366.	2.2	9
528	Short overview on the application of metal-modified molecular sieves in selective hydrogenation of cinnamaldehyde. Catalysis Today, 2005, 100, 349-353.	2.2	9
529	An integrated dynamic model for reaction kinetics and catalyst deactivation in fixed bed reactors: skeletal isomerization of 1-pentene over ferrierite. Chemical Engineering Science, 2006, 61, 1157-1166.	1.9	9
530	Multitubular reactor design as an advanced screening tool for three-phase catalytic reactions. Topics in Catalysis, 2007, 45, 223-227.	1.3	9
531	Hydrogenation of 1,2-indanedione over heterogeneous cinchonidine-modified platinum catalysts. Catalysis Letters, 2007, 117, 91-98.	1.4	9
532	Skeletal Isomerization of Butene in Fixed Beds. Part 2. Kinetic and Flow Modeling. Industrial & Engineering Chemistry Research, 2008, 47, 5413-5426.	1.8	9
533	Reaction kinetics and mechanism of acid-catalyzed anomerization of 1-O-acetyl-2,3,5-tri-O-benzoyl- $\beta$ -D-ribofuranose. Carbohydrate Research, 2009, 344, 1102-1109.	1.1	9
534	X-Ray Photoelectron Spectroscopy Investigation of Pd-Beta Zeolite Catalysts with Different Acidities. Topics in Catalysis, 2009, 52, 359-379.	1.3	9
535	Decalin ring opening reactions on ruthenium-containing zeolite MCM-41. Petroleum Chemistry, 2009, 49, 90-93.	0.4	9
536	The effect of palladium dispersion and promoters on lactose oxidation kinetics. Research on Chemical Intermediates, 2010, 36, 423-442.	1.3	9
537	The Dissolution Kinetics of Gibbsite in Sodium Hydroxide at Ambient Pressure. Industrial & Engineering Chemistry Research, 2010, 49, 2600-2607.	1.8	9
538	Kinetics of dimethyl carbonate synthesis from methanol and carbon dioxide over ZrO <sub>2</sub> -MgO catalyst in the presence of butylene oxide as additive. Applied Catalysis A: General, 2011, 404, 39-39.	2.2	9
539	Gold Catalysts for Selective Aerobic Oxidation of the Lignan Hydroxymatairesinol to Oxomatairesinol: Catalyst Deactivation and Regeneration. Catalysis Letters, 2012, 142, 1011-1019.	1.4	9
540	Base-Catalyzed Transformations of Tetramethyldisiloxane. Industrial & Engineering Chemistry Research, 2013, 52, 10080-10088.	1.8	9

#	ARTICLE	IF	CITATIONS
541	Ionic liquids versus amine solutions in biogas upgrading: the level of volatile organic compounds. <i>Biofuels</i> , 2013, 4, 295-311.	1.4	9
542	Catalyst deactivation and structure sensitivity. <i>Catalysis Science and Technology</i> , 2014, 4, 3340.	2.1	9
543	Structure sensitivity in heterogeneous catalysis with noncompetitive adsorption of reactants: Selective oxidation of lignan hydroxymatairesinol to oxomatairesinol over gold catalysts. <i>Comptes Rendus Chimie</i> , 2014, 17, 770-774.	0.2	9
544	Iron catalyzed halogenation of benzylic aldehydes and ketones. <i>Catalysis Science and Technology</i> , 2015, 5, 2406-2417.	2.1	9
545	Selective one-pot carvone oxime hydrogenation over titania supported gold catalyst as a novel approach for dihydrocarvone synthesis. <i>Journal of Molecular Catalysis A</i> , 2016, 420, 142-148.	4.8	9
546	Extraction of Lipids from <i>Chlorella</i> Alga by Supercritical Hexane and Demonstration of Their Subsequent Catalytic Hydrodeoxygenation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 10626-10634.	1.8	9
547	Solvent-free "green" amidation of stearic acid for synthesis of biologically active alkylamides over iron supported heterogeneous catalysts. <i>Applied Catalysis A: General</i> , 2017, 542, 350-358.	2.2	9
548	Microreactor coating with Au/Al <sub>2</sub> O <sub>3</sub> catalyst for gas-phase partial oxidation of ethanol: Physico-chemical characterization and evaluation of catalytic properties. <i>Chemical Engineering Journal</i> , 2019, 378, 122179.	6.6	9
549	Preparation of Betulone Via Betulin Oxidation Over Ru Nanoparticles Deposited on Graphitic Carbon Nitride. <i>Catalysis Letters</i> , 2019, 149, 723-732.	1.4	9
550	Synthesis and Characterization of Novel Catalytic Materials Using Industrial Slag: Influence of Alkaline Pretreatment, Synthesis Time and Temperature. <i>Topics in Catalysis</i> , 2019, 62, 738-751.	1.3	9
551	Catalytic synthesis of bioactive 2H-chromene alcohols from (âˆ“) -isopulegol and acetone on sulfonated clays. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2020, 129, 627-644.	0.8	9
552	Oxidation of glucose and arabinose mixtures over Au/Al <sub>2</sub> O <sub>3</sub> . <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2021, 132, 59-72.	0.8	9
553	Kinetics of liquid-phase diphenylacetylene hydrogenation on "single-atom alloy" Pd-Ag catalyst: Experimental study and kinetic analysis. <i>Molecular Catalysis</i> , 2021, 506, 111550.	1.0	9
554	Catalytic activity of hierarchical beta zeolites in the Prins cyclization of (âˆ“) -isopulegol with acetone. <i>Applied Catalysis A: General</i> , 2021, 618, 118131.	2.2	9
555	Effect of metal particle shape on hydrogen assisted reactions. <i>Applied Catalysis A: General</i> , 2021, 618, 118140.	2.2	9
556	Clays catalyzed cascade Prins and Prins-Friedel-Crafts reactions for synthesis of terpenoid-derived polycyclic compounds. <i>Applied Catalysis A: General</i> , 2022, 629, 118395.	2.2	9
557	Solid Foam Ru/C Catalysts for Sugar Hydrogenation to Sugar Alcohols" Preparation, Characterization, Activity, and Selectivity. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 2734-2747.	1.8	9
558	Liquid-Phase Hydrogenation of 1-Phenyl-1-propyne on the Pd <sub>1</sub> Ag <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> Single-Atom Alloy Catalyst: Kinetic Modeling and the Reaction Mechanism. <i>Nanomaterials</i> , 2021, 11, 3286.	1.9	9



#	ARTICLE	IF	CITATIONS
559	Kinetics of catalytic reactions with two types of sites: nonuniform surfaces. <i>Chemical Engineering Science</i> , 2002, 57, 1299-1306.	1.9	8
560	Investigation of NO Reduction by H <sub>2</sub> on Pd Monolith with Transient and Isotopic Exchange Techniques I. H <sub>2</sub> /D <sub>2</sub> Exchange with H <sub>2</sub> O and NH <sub>3</sub> . <i>Journal of Catalysis</i> , 2002, 210, 17-29.	3.1	8
561	Kinetics and modeling of o-xylene hydrogenation over Pt/ $\gamma$ -Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Chemical Engineering Journal</i> , 2003, 91, 271-278.	6.6	8
562	Microreactors for environmental catalysis – Selective catalytic reduction of NO <sub>x</sub> with hydrocarbons over a Ag/alumina catalyst. <i>Catalysis Today</i> , 2008, 133-135, 448-454.	2.2	8
563	Kinetics and modeling of (R,S)-phenylethanol acylation over lipase. <i>International Journal of Chemical Kinetics</i> , 2010, 42, 629-639.	1.0	8
564	Hydrogenolysis of hydroxymatairesinol on Y derived catalysts: A computational study. <i>Journal of Molecular Catalysis A</i> , 2010, 333, 136-144.	4.8	8
565	Unusual behavior of modifier mixtures in heterogeneous enantioselective catalysis: beyond nonlinear phenomena. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2011, 103, 1-9.	0.8	8
566	Mechanistic model for kinetics of propene hydroformylation with Rh catalyst. <i>AIChE Journal</i> , 2012, 58, 2192-2201.	1.8	8
567	On the way to improve cetane number in diesel fuels: Ring opening of decalin over Ir-modified embedded mesoporous materials. <i>Catalysis in Industry</i> , 2013, 5, 105-122.	0.3	8
568	Utilisation of a multitubular reactor system for parallel screening of catalysts for ring opening of decalin in continuous mode. <i>Chemical Engineering Journal</i> , 2014, 238, 3-8.	6.6	8
569	Pharmaceuticals and Surfactants from Alga-Derived Feedstock: Amidation of Fatty Acids and Their Derivatives with Amino Alcohols. <i>ChemSusChem</i> , 2015, 8, 2670-2680.	3.6	8
570	Preparation of selective ZnCl <sub>2</sub> /alumina catalysts for methyl chloride synthesis: Influence of pH, precursor and zinc loading. <i>Applied Catalysis A: General</i> , 2015, 490, 117-127.	2.2	8
571	Mathematical modeling of starch oxidation by hydrogen peroxide in the presence of an iron catalyst complex. <i>Chemical Engineering Science</i> , 2016, 146, 19-25.	1.9	8
572	A structure sensitivity approach to temperature programmed desorption. <i>Applied Catalysis A: General</i> , 2018, 550, 48-56.	2.2	8
573	Catalytic oxidative transformation of betulin to its valuable oxo-derivatives over gold supported catalysts: Effect of support nature. <i>Catalysis Today</i> , 2021, 367, 95-110.	2.2	8
574	Coordination-Dependent Kinetics in the Catalysis of Gold Nanoclusters. <i>ACS Catalysis</i> , 2021, 11, 9073-9085.	5.5	8
575	CuZSM-5@HMS composite as an efficient micro-mesoporous catalyst for conversion of sugars into levulinic acid. <i>Catalysis Today</i> , 2022, 390-391, 146-161.	2.2	8
576	Structure effect of modified biochar in Ru/C catalysts for sugar mixture hydrogenation. <i>Biomass and Bioenergy</i> , 2022, 163, 106504.	2.9	8

#	ARTICLE	IF	CITATIONS
577	Kinetics of buta-1,3-diene hydrogenation over 0.5% Pd/ $\gamma$ -Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Chemical Engineering and Technology</i> , 1997, 20, 138-143.	0.9	7
578	Application of transient methods in three-phase catalysis: hydrogenation of a dione in a catalytic plate column. <i>Catalysis Today</i> , 2003, 79-80, 383-389.	2.2	7
579	Hydrogenation of Cinnamaldehyde over Pt-Modified Molecular Sieve Catalysts. <i>Chemical Engineering and Technology</i> , 2004, 27, 1290-1295.	0.9	7
580	Catalytic reduction of NO by H <sub>2</sub> over Ag/Al <sub>2</sub> O <sub>3</sub> under dry reducing conditions. <i>Applied Catalysis A: General</i> , 2005, 294, 49-58.	2.2	7
581	The selective sorption of solvents on sulphonic acid polymer catalyst in binary mixtures. <i>Reactive and Functional Polymers</i> , 2005, 64, 111-118.	2.0	7
582	Selectivity Enhancement by Catalyst Deactivation in Three-Phase Hydrogenation of Nerol. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 9376-9383.	1.8	7
583	Novel Nano Catalysts on the Base of Hyper-crosslinked Polystyrene for Carbohydrates Oxidation. <i>Studies in Surface Science and Catalysis</i> , 2006, , 119-126.	1.5	7
584	Supported Ionic Liquid Catalyst (SILCA) in the Hydrogenation of Citral. <i>Studies in Surface Science and Catalysis</i> , 2006, , 87-94.	1.5	7
585	Hydrogenolysis of a wood extractive to an anticarcinogenic and antioxidative compound. <i>Catalysis Today</i> , 2007, 121, 100-105.	2.2	7
586	Dissolution of Mineral Fiber in a Formic Acid Solution: Kinetics, Modeling, and Gelation of the Resulting Sol. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 9834-9841.	1.8	7
587	Deposition of carbonaceous species over Ag/alumina catalysts for the HC-SCR of NO <sub>x</sub> under lean conditions: a qualitative and quantitative study. <i>Catalysis Science and Technology</i> , 2011, 1, 1456.	2.1	7
588	Did Chemisorption Become an Obsolete Method With Advent of Tem? Comparison of Mean Particle Size and Distribution of Silver on Alumina. <i>Catalysis Letters</i> , 2011, 141, 665-669.	1.4	7
589	Comparative Study of Au Modified Beta, MCM-22, Mordenite, ZSM-5, MCM-41, Ce-MCM-41 Catalysts in Piperonyl Alcohol Oxidation. <i>Current Catalysis</i> , 2012, 1, 58-66.	0.5	7
590	Gold particle size effect in biomass-derived lignan hydroxymatairesinol oxidation over Au/Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Applied Catalysis A: General</i> , 2015, 504, 248-255.	2.2	7
591	Thermal and Catalytic Amidation of Stearic Acid with Ethanolamine for Production of Pharmaceuticals and Surfactants. <i>Topics in Catalysis</i> , 2016, 59, 1151-1164.	1.3	7
592	Enzymatic Kinetics. , 2016, , 281-343.		7
593	Development of polyol method for the synthesis of concentrated colloids of PVP-stabilised Ru nanoparticles. <i>International Journal of Nanotechnology</i> , 2016, 13, 15.	0.1	7
594	Size-controlled synthesis of Ni and Co metal nanoparticles by the modified polyol method. <i>International Journal of Nanotechnology</i> , 2016, 13, 3.	0.1	7

#	ARTICLE	IF	CITATIONS
595	Kinetics in the thermal and catalytic amidation of C18 fatty acids with ethanolamine for the production of pharmaceuticals. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2017, 120, 15-29.	0.8	7
596	Morphological features of porous silicon carbide obtained via a carbothermal method. <i>International Journal of Applied Ceramic Technology</i> , 2018, 15, 36-41.	1.1	7
597	High purity fructose from inulin with heterogeneous catalysis from batch to continuous operation. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 418-425.	1.6	7
598	On the Scientific Heritage of Mikhail Isaakovich Temkin. <i>Kinetics and Catalysis</i> , 2019, 60, 388-397.	0.3	7
599	Prins cyclization of (-)-isopulegol with benzaldehyde for production of chromenols over organosulfonic clays. <i>Molecular Catalysis</i> , 2019, 478, 110569.	1.0	7
600	Mesoporous carbon and microporous zeolite supported Ru catalysts for selective levulinic acid hydrogenation into $\beta$ -valerolactone. <i>Catalysis for Sustainable Energy</i> , 2019, 6, 38-50.	0.7	7
601	Synthesis of isobenzofuran derivatives from renewable 2-carene over halloysite nanotubes. <i>Molecular Catalysis</i> , 2020, 490, 110974.	1.0	7
602	Aqueous phase reforming of xylitol and xylose in the presence of formic acid. <i>Catalysis Science and Technology</i> , 2020, 10, 5245-5255.	2.1	7
603	Modelling of kinetics, mass transfer and flow pattern on open foam structures in tubular reactors: Hydrogenation of arabinose and galactose on ruthenium catalyst. <i>Chemical Engineering Science</i> , 2021, 233, 116385.	1.9	7
604	Catalytic synthesis of terpenoid-derived hexahydro-2H-chromenes with analgesic activity over halloysite nanotubes. <i>Applied Catalysis A: General</i> , 2021, 618, 118144.	2.2	7
605	Transformations of citral over bifunctional Ru-H-Y-80 extrudates in a continuous reactor. <i>Chemical Engineering Journal</i> , 2022, 429, 132190.	6.6	7
606	Aqueous phase reforming of birch and pine hemicellulose hydrolysates. <i>Bioresource Technology</i> , 2022, 348, 126809.	4.8	7
607	Continuous synthesis of menthol from citronellal and citral over Ni-beta-zeolite-sepiolite composite catalyst. <i>Applied Catalysis A: General</i> , 2022, 636, 118586.	2.2	7
608	Bifunctional Pt-Re Catalysts in Hydrodeoxygenation of Isoeugenol as a Model Compound for Renewable Jet Fuel Production. <i>ACS Engineering Au</i> , 2022, 2, 436-449.	2.3	7
609	On linear free energy correlations in liquid-phase catalytic hydrogenation of aromatic compounds. <i>Reaction Kinetics and Catalysis Letters</i> , 1998, 63, 317-321.	0.6	6
610	Ultrasonic Irradiation in Enantioselective Hydrogenation of 1-Phenyl-1,2-Propanedione. <i>Reaction Kinetics and Catalysis Letters</i> , 2001, 73, 3-11.	0.6	6
611	Support Effects in Nerol Hydrogenation over Pt/SiO <sub>2</sub> , Pt/H-Y and Pt/H-MCM-41 Catalysts. <i>Catalysis Letters</i> , 2004, 98, 173-179.	1.4	6
612	Ring opening of decalin over Pt- and Ir-modified SAPO-5 and VPI-5 zeolite catalysts. <i>Studies in Surface Science and Catalysis</i> , 2005, 158, 1669-1676.	1.5	6

#	ARTICLE	IF	CITATIONS
613	Synthesis of Pt-modified MCM-41 mesoporous molecular sieve catalysts: influence of methods of Pt introduction in MCM-41 on physico-chemical and catalytic properties for ring opening of decalin. <i>Studies in Surface Science and Catalysis</i> , 2006, , 401-408.	1.5	6
614	Modelling of Consecutive Reactions with a Semibatch Liquid Phase: Enhanced Kinetic Information by a New Experimental Concept. <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 3912-3921.	1.8	6
615	On the topological representation of catalytic cycles with nonlinear steps. <i>Reaction Kinetics and Catalysis Letters</i> , 2007, 90, 225-232.	0.6	6
616	Radioisotopic tracing of methanol transformation using <sup>11</sup> C-labelled methanol over copper ion-exchanged H-ZSM-5, H-Beta and H-MCM-41. <i>Catalysis Letters</i> , 2007, 114, 17-23.	1.4	6
617	Utilization of cascade chemo-bio catalysis for the synthesis of R-1-phenylethyl acetate. <i>Reaction Kinetics and Catalysis Letters</i> , 2008, 94, 281-288.	0.6	6
618	Kinetics of liquid-phase benzene hydrogenation on Rh/C. <i>Research on Chemical Intermediates</i> , 2009, 35, 1-11.	1.3	6
619	Chapter 19. Catalytic Deoxygenation of Fatty Acids and their Derivatives for the Production of Renewable Diesel. <i>RSC Energy and Environment Series</i> , 2010, , 496-510.	0.2	6
620	Systematic conformational search analysis of the SRR and RRR epimers of 7 $\alpha$ -hydroxymatairesinol. <i>Journal of Physical Organic Chemistry</i> , 2010, 23, 141-147.	0.9	6
621	Simultaneous detection of the absorption spectrum and refractive index ratio with a spectrophotometer: monitoring contaminants in bioethanol. <i>Measurement Science and Technology</i> , 2011, 22, 055803.	1.4	6
622	Lipase-catalyzed acylation in a continuous down-flow fixed-bed reactor. <i>Kinetics and Catalysis</i> , 2012, 53, 673-683.	0.3	6
623	<i>Catalysis in Biomass Processing</i> , , 2013, , 559-586.		6
624	Integrated modelling of reaction and catalyst deactivation kinetics Hydrogenation of sitosterol to sitostanol over a palladium catalyst. <i>Chemical Engineering Science</i> , 2013, 104, 156-165.	1.9	6
625	Pyrolysis of beet pulp in a fluidized bed reactor. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013, 104, 426-432.	2.6	6
626	Effect of acidity and texture of micro-, mesoporous and hybrid micromesoporous materials on the synthesis of paramethanic diol exhibiting anti-Parkinson activity. <i>Journal of Lithic Studies</i> , 2015, 1, 146-154.	0.1	6
627	Unprecedented Selective Heterogeneously Catalysed "Green" Oxidation of Betulin to Biologically Active Compounds using Synthetic Air and Supported Ru Catalysts. <i>ChemistrySelect</i> , 2016, 1, 3866-3869.	0.7	6
628	Interpretation of rate optima vs reaction parameters in steady state catalytic kinetics: Molecular aspects beyond concentration dependences. <i>Molecular Catalysis</i> , 2017, 433, 321-333.	1.0	6
629	Application of an Extended Shrinking Film Model to Limestone Dissolution. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 13254-13261.	1.8	6
630	Molecular insight on unusually high specific hydrogen adsorption over silicon carbide. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 6074-6085.	3.8	6

#	ARTICLE	IF	CITATIONS
631	Ketonization kinetics of stearic acid. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019, 126, 601-610.	0.8	6
632	Catalytic activity of gold nanoparticles deposited on N-doped carbon-based supports in oxidation of glucose and arabinose mixtures. <i>Research on Chemical Intermediates</i> , 2021, 47, 2573.	1.3	6
633	On the kinetic interpretation of metal-support interaction. <i>Reaction Kinetics and Catalysis Letters</i> , 1995, 55, 275-281.	0.6	5
634	Deactivation kinetics over induced nonuniform surfaces with linear steps of surface reactions. <i>Chemical Engineering Science</i> , 1998, 53, 2469-2474.	1.9	5
635	The interaction of butenes with Cu <sup>+</sup> ions in CuMCM-41 studied by IR spectroscopy. <i>Catalysis Today</i> , 2005, 100, 407-412.	2.2	5
636	Modelling of H/D exchange over Pd. <i>Chemical Engineering Journal</i> , 2005, 107, 89-95.	6.6	5
637	Isomerization of n-butane over Pt-modified mordenite zeolite catalysts: effect of Pt loadings and dealumination. <i>Studies in Surface Science and Catalysis</i> , 2005, 158, 1859-1866.	1.5	5
638	Suppression of catalyst deactivation by means of acoustic irradiation—Application on fine and specialty chemicals. <i>Chemical Engineering Journal</i> , 2006, 120, 91-98.	6.6	5
639	High-selectivity hydrogenation of cinnamaldehyde over platinum supported on aluminosilicates. <i>Research on Chemical Intermediates</i> , 2006, 32, 795-816.	1.3	5
640	Thermodynamic analysis of reaction schemes with empty routes. <i>AIChE Journal</i> , 2006, 52, 4273-4275.	1.8	5
641	Skeletal isomerization of 1-butene: A thorough kinetic study over ZSM-22. <i>Catalysis Today</i> , 2008, 133-135, 762-769.	2.2	5
642	Mechanism of the chemo-bio catalyzed cascade synthesis of R-1-phenylethyl acetate over Pd/Al <sub>2</sub> O <sub>3</sub> , lipase, and Ru-catalysts. <i>Research on Chemical Intermediates</i> , 2010, 36, 193-210.	1.3	5
643	Chemo-bio catalyzed synthesis of R-1-phenylethyl acetate over bimetallic PdZn catalysts, lipase, and Ru/Al <sub>2</sub> O <sub>3</sub> . Part II. <i>Kinetics and Catalysis</i> , 2011, 52, 77-81.	0.3	5
644	Influence of Cluster Size Distribution on Cluster Size Dependent Catalytic Kinetics. <i>Catalysis Letters</i> , 2011, 141, 982-986.	1.4	5
645	Regioselective Hydrogenation of 1,2-Indanedione Over Heterogeneous Pd and Pt Catalysts. <i>Catalysis Letters</i> , 2013, 143, 142-149.	1.4	5
646	Kinetic Studies on <i>sec</i> -Alcohol Racemization with Dicarboxylchloro(pentabenzylcyclopentadienyl) and Dicarboxylchloro(pentaphenylcyclopentadienyl)ruthenium Catalysts. <i>ChemCatChem</i> , 2013, 5, 2436-2445.	1.8	5
647	Processing microalgae: beyond lipids. <i>Biofuels</i> , 2014, 5, 29-32.	1.4	5
648	On the Interaction of Metal Nanoparticles with Supports. <i>Topics in Catalysis</i> , 2015, 58, 1127-1135.	1.3	5

#	ARTICLE	IF	CITATIONS
649	Crystallization of Nano-Calcium Carbonate: The Influence of Process Parameters. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1609-1616.	0.4	5
650	A Combined Theoretical and Experimental Approach for Platinum Catalyzed 1,2-Propanediol Aqueous Phase Reforming. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14636-14648.	1.5	5
651	Size-controlled reverse microemulsion synthesis of Ni and Co metal nanoparticles. <i>Materials Today: Proceedings</i> , 2017, 4, 11385-11391.	0.9	5
652	Preparation of chiral isobenzofurans from 3-carene in the presence of modified clays. <i>Molecular Catalysis</i> , 2018, 459, 38-45.	1.0	5
653	Kinetics of ceria-catalysed ethene oxychlorination. <i>Journal of Catalysis</i> , 2019, 372, 287-298.	3.1	5
654	Transformation of industrial steel slag with different structure-modifying agents for synthesis of catalysts. <i>Catalysis Today</i> , 2020, 355, 768-780.	2.2	5
655	Synthesis and physico-chemical characterization of Beta zeolite catalysts: Evaluation of catalytic properties in Prins cyclization of ( $\alpha$ )-isopulegol. <i>Microporous and Mesoporous Materials</i> , 2020, 302, 110236.	2.2	5
656	Diffusion Measurements of Hydrocarbons in Zeolites with Pulse-Field Gradient Nuclear Magnetic Resonance Spectroscopy. <i>Russian Journal of Physical Chemistry A</i> , 2021, 95, 547-557.	0.1	5
657	Ultrasound irradiation as an effective tool in synthesis of the slag-based catalysts for carboxymethylation. <i>Ultrasonics Sonochemistry</i> , 2021, 73, 105503.	3.8	5
658	Kinetics of cluster shape sensitive heterogeneous catalytic reactions. <i>Chemical Engineering Journal</i> , 2021, 425, 130642.	6.6	5
659	Alumina ceramic foams as catalyst supports. <i>Catalysis</i> , 0, , 28-50.	0.6	5
660	A Scientometric Analysis of Catalysis Research. <i>Journal of Scientometric Research</i> , 2020, 9, 335-343.	0.3	5
661	Levulinic Acid Production: Comparative Assessment of Al-Rich Ordered Mesoporous Silica and Microporous Zeolite. <i>Catalysis Letters</i> , 2023, 153, 41-53.	1.4	5
662	Reaction mechanism and intrinsic kinetics of sugar hydrogenation to sugar alcohols on solid foam Ru/C catalysts – From arabinose and galactose to arabitol and galactitol. <i>Chemical Engineering Science</i> , 2022, 254, 117627.	1.9	5
663	On the optimum catalyst for heterogeneous catalytic reactions over metals. <i>Reaction Kinetics and Catalysis Letters</i> , 1994, 53, 467-474.	0.6	4
664	Kinetic coupling and selectivity pattern in consecutive heterogeneous catalytic reactions. <i>Reaction Kinetics and Catalysis Letters</i> , 1996, 58, 65-72.	0.6	4
665	Catalysis Involving Multicentered Species on Nonuniform Surfaces, 1. Adsorption. <i>Reaction Kinetics and Catalysis Letters</i> , 2000, 70, 219-226.	0.6	4
666	Title is missing!. <i>Kinetics and Catalysis</i> , 2003, 44, 562-571.	0.3	4

#	ARTICLE	IF	CITATIONS
667	Analysis of the State and Size of Silver on Alumina in Effective Removal of NO <sub>x</sub> from Oxygen Rich Exhaust Gas. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 1076-1083.	0.9	4
668	Thermodynamic consistency of complex enzymatic reactions with empty routes. <i>Chemical Engineering Science</i> , 2007, 62, 6492-6494.	1.9	4
669	Radioisotope tracer study of co-reactions of methanol with ethanol using <sup>11</sup> C-labelled methanol over alumina, H-ZSM-5 and Cu-ZSM-5. <i>Topics in Catalysis</i> , 2007, 45, 169-173.	1.3	4
670	Enhancing consecutive reactions during three phase hydrogenation with a semibatch liquid phase. <i>Chemical Engineering Journal</i> , 2007, 134, 268-275.	6.6	4
671	Thermal Polymerisation and Autoxidation of Technical Grade Linoleic Acid. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2008, 85, 567-572.	0.8	4
672	Stability of hydrogen peroxide during perhydrolysis of carboxylic acids on acidic heterogeneous catalysts. <i>Research on Chemical Intermediates</i> , 2010, 36, 389-401.	1.3	4
673	Chemo-bio catalyzed synthesis of R-1-phenylethyl acetate over bimetallic PdZn catalysts, lipase, and Ru/Al <sub>2</sub> O <sub>3</sub> . part I. <i>Kinetics and Catalysis</i> , 2011, 52, 72-76.	0.3	4
674	Gas-phase microreactors as a powerful tool for kinetic investigations. <i>Russian Journal of General Chemistry</i> , 2012, 82, 2034-2059.	0.3	4
675	Catalysis for Lignocellulosic Biomass Processing: Methodological Aspects. <i>Catalysis Letters</i> , 2012, 142, 817-829.	1.4	4
676	Characterization of MFI and BEA embedded in mesoporous molecular sieve – Thermal stability. <i>Microporous and Mesoporous Materials</i> , 2012, 154, 124-132.	2.2	4
677	Hemicellulose Hydrolysis in the Presence of Heterogeneous Catalysts. <i>Topics in Catalysis</i> , 2014, 57, 1470-1475.	1.3	4
678	Kinetics of ethanol hydrochlorination over <sup>13</sup> Al <sub>2</sub> O <sub>3</sub> in a microstructured reactor. <i>Chemical Engineering Science</i> , 2015, 134, 681-693.	1.9	4
679	The Impact of Salts Formed by the Neutralisation of (Ligno)Cellulose Hydrolysates on the Hydrogenation of Sugars. <i>ChemCatChem</i> , 2018, 10, 2409-2416.	1.8	4
680	Racemization of Secondary Amine-Containing Natural Products Using Heterogeneous Metal Catalysts. <i>ChemCatChem</i> , 2018, 10, 2893-2899.	1.8	4
681	Influence of the specific surface area and silver crystallite size of mesoporous Ag/SrTiO <sub>3</sub> on the selectivity enhancement of ethylene oxide production. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 3839-3849.	1.6	4
682	Requiem for the Rate-Determining Step in Complex Heterogeneous Catalytic Reactions?. <i>Reactions</i> , 2020, 1, 37-46.	0.9	4
683	Techno-economic Analysis for Production of Arabinol from Arabinose. <i>Chemical Engineering and Technology</i> , 2020, 43, 1260-1267.	0.9	4
684	Deactivation and regeneration of Pt-modified zeolite Beta-Bindzil extrudates in n-hexane hydroisomerization. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 1645-1655.	1.6	4

#	ARTICLE	IF	CITATIONS
685	Biogas Reforming over Al-Co Catalyst Prepared by Solution Combustion Synthesis Method. <i>Catalysts</i> , 2021, 11, 274.	1.6	4
686	Comparison of Isobutane/n-Butenes Alkylation over Y-Zeolite Catalyst in CSTR, Fixed Bed and Circulating Flow Reactors. <i>Review Journal of Chemistry</i> , 2020, 10, 58-72.	1.0	4
687	Furfural Oxidation with Hydrogen Peroxide Over ZSM-5 Based Micro-Mesoporous Aluminosilicates. <i>Catalysis Letters</i> , 2022, 152, 2920-2932.	1.4	4
688	Side Reactions in the Liquid-Phase Cyclohexanone Ammoximation. <i>Reaction Kinetics and Catalysis Letters</i> , 2000, 69, 95-104.	0.6	3
689	<sup>11</sup> C-radioisotope labeled methanol conversion over H- and Cs- modified ZSM-5, Beta zeolites and MCM-41 mesoporous molecular sieve. <i>Catalysis Today</i> , 2005, 100, 379-383.	2.2	3
690	Cyclic voltammetry as a tool for characterization of supported VIII group metal catalysts. <i>Applied Catalysis A: General</i> , 2006, 309, 52-61.	2.2	3
691	Classification and pattern recognition of acyclic octenes based on mass spectra. <i>Talanta</i> , 2007, 72, 1573-1580.	2.9	3
692	Preparation of dimethoxyborane and analysis by Fourier transform infrared spectroscopy. <i>Research on Chemical Intermediates</i> , 2007, 33, 645-654.	1.3	3
693	On selectivity of catalytic reactions with multi-centered adsorption. <i>Reaction Kinetics and Catalysis Letters</i> , 2007, 91, 141-147.	0.6	3
694	Kinetic modeling of lipase-mediated one-pot chemo-bio cascade synthesis of R-1-phenyl ethyl acetate starting from acetophenone. <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 192-198.	1.6	3
695	Interplay Between the Active Phase and Support: Preparation, Characterization and Catalytic Performance. <i>Topics in Catalysis</i> , 2009, 52, 333-333.	1.3	3
696	Hydroformylation of 1-Butene on Rh Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 1325-1331.	1.8	3
697	Continuous mode linoleic acid hydrogenation on Pd/sibunit catalyst. <i>Catalysis in Industry</i> , 2010, 2, 95-100.	0.3	3
698	<sup>11</sup> C-radiolabeling study of nickel modified H-MCM-41 with methanol as a probe molecule. <i>Journal of Materials Science</i> , 2010, 45, 4229-4235.	1.7	3
699	Kinetics and mass transfer in hydroformylation-bulk or film reaction?. <i>Canadian Journal of Chemical Engineering</i> , 2010, 88, n/a-n/a.	0.9	3
700	Effect of the carbon nanotube basicity in Pd/N-CNT catalysts on the synthesis of R-1-phenyl ethyl acetate. <i>Studies in Surface Science and Catalysis</i> , 2010, , 283-287.	1.5	3
701	Quantification of cluster size effect (structure sensitivity) in heterogeneous catalysis. <i>Catalysis</i> , 0, , 179-203.	0.6	3
702	Heat Treatment and Chemical Composition of Fatty Acids and Rosin Acids Mixtures: Effects on Their Thermal Properties and Morphology. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2014, 91, 1035-1046.	0.8	3



#	ARTICLE	IF	CITATIONS
703	Combination of Reaction and Separation in Heterogeneous Catalytic Hydrogenation of Ethylformate. <i>Chemical Engineering and Technology</i> , 2015, 38, 804-812.	0.9	3
704	Isomerization of verbenol oxide to a diol with para-menthane structure exhibiting anti-Parkinson activity. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2015, 116, 299-314.	0.8	3
705	The base-catalyzed transformation of tetramethyldisiloxane: influence of reaction media. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 34-43.	1.6	3
706	Kinetic and Theoretical Investigation of Iron(III)-Catalyzed Silane Chlorination. <i>ChemCatChem</i> , 2016, 8, 584-592.	1.8	3
707	Catalytic Conversion of Hexanol to 2-Butyl-octanol Through the Guerbet Reaction. <i>Topics in Catalysis</i> , 2018, 61, 1888-1900.	1.3	3
708	On the optimum catalyst for structure sensitive heterogeneous catalytic reactions. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2020, 131, 5-17.	0.8	3
709	Pt- and K-promoted supported gallia as a highly stable alternative catalyst for isobutane dehydrogenation. <i>Catalysis Science and Technology</i> , 2020, 10, 7719-7723.	2.1	3
710	Monoterpenoid Oximes Hydrogenation Over Platinum Catalysts. <i>Topics in Catalysis</i> , 2020, 63, 187-195.	1.3	3
711	Solvent-free synthesis of tetrahydropyran alcohols over acid-modified clays. <i>Molecular Catalysis</i> , 2021, 499, 111306.	1.0	3
712	Supported Silver Nanoparticles as Catalysts for Liquid-Phase Betulin Oxidation. <i>Nanomaterials</i> , 2021, 11, 469.	1.9	3
713	Pd Nanoparticles Stabilized on the Cross-Linked Melamine-Based SBA-15 as a Catalyst for the Mizoroki-Heck Reaction. <i>Catalysis Letters</i> , 2022, 152, 991-1002.	1.4	3
714	Interaction of Intrinsic Kinetics, Catalyst Durability and Internal Mass Transfer in the Oxidation of Sugar Mixtures on Gold Nanoparticle Extrudates. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 6483-6500.	1.8	3
715	Editorial: Aqueous-Phase Catalytic Conversions of Renewable Feedstocks for Sustainable Biorefineries. <i>Frontiers in Chemistry</i> , 2020, 8, 629578.	1.8	3
716	Synthesis of Florol via Prins cyclization over heterogeneous catalysts. <i>Journal of Catalysis</i> , 2022, 405, 288-302.	3.1	3
717	Diffusion measurements of hydrocarbons in H-MCM-41 extrudates with pulsed-field gradient nuclear magnetic resonance spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8269-8278.	1.3	3
718	Liquid-phase oxidation of betulin over supported Ag NPs catalysts: Kinetic regularities, catalyst deactivation and reactivation. <i>Molecular Catalysis</i> , 2022, 528, 112461.	1.0	3
719	On the rate of heterogeneous catalytic reactions with ionic intermediates. <i>Catalysis Letters</i> , 1993, 20, 185-190.	1.4	2
720	Selectivity of complex heterogeneous catalytic reactions over energetically nonuniform surfaces. <i>Reaction Kinetics and Catalysis Letters</i> , 1996, 59, 117-123.	0.6	2

#	ARTICLE	IF	CITATIONS
721	Selectivity in consecutive heterogeneous catalytic reactions: Case of polyatomic molecules. Reaction Kinetics and Catalysis Letters, 1996, 57, 153-158.	0.6	2
722	Three-step heterogeneous catalytic reaction mechanism with coverage dependent parameters. Chemical Engineering and Technology, 1996, 19, 113-116.	0.9	2
723	Kinetics of Ammonia Synthesis Close to Equilibrium. Industrial & Engineering Chemistry Research, 1997, 36, 4779-4783.	1.8	2
724	On the application of mean value theorem to reaction kinetics over inhomogeneous surfaces. Reaction Kinetics and Catalysis Letters, 1997, 62, 233-241.	0.6	2
725	Catalysis Involving Multi-Centered Species on Nonuniform Surfaces, 2. Kinetics. Reaction Kinetics and Catalysis Letters, 2000, 70, 227-234.	0.6	2
726	Preparation and properties of bimetallic Ru-Sn sol-gel catalysts: influence of catalyst reduction. Studies in Surface Science and Catalysis, 2000, , 757-765.	1.5	2
727	A New Polymer Based Catalytic Matreial for Liquid Phase Reactions. Chemie-Ingenieur-Technik, 2001, 73, 618-618.	0.4	2
728	Kinetics of Methane Catalytic Combustion on Mn-Substituted Barium Hexaaluminate Catalysts. Chemical Engineering and Technology, 2001, 24, 1301-1307.	0.9	2
729	Kinetics of Cyanate Decomposition in Alkaline Solutions of High Ionic Strength:Â The Catalytic Effect of Bicarbonate. Industrial & Engineering Chemistry Research, 2004, 43, 4815-4821.	1.8	2
730	One-pot synthesis of menthol from citral over bifunctional Ni modified micro- and mesoporous molecular sieves. Studies in Surface Science and Catalysis, 2005, 158, 1311-1318.	1.5	2
731	Acylation of (R,S)-1-phenylethanol with ethyl acetate over an immobilized enzyme. Research on Chemical Intermediates, 2010, 36, 245-252.	1.3	2
732	Hydrogenation of geraniol using rutheniumâ€“BINAP catalysts. Catalysis Science and Technology, 2012, 2, 1901.	2.1	2
733	Fatty Acids-Derived Fuels from Biomass via Catalytic Deoxygenation. , 2012, , 199-220.		2
734	Kinetic Modeling of Ethyl Benzoylformate Enantioselective Hydrogenation over Pt/Al<sub>2</sub>O<sub>3</sub>. Industrial & Engineering Chemistry Research, 2014, 53, 11945-11953.	1.8	2
735	Kinetics of the selective oxidation of the lignan hydroxymatairesinol to oxomatairesinol over Au/Al2O3 catalysts. Journal of Molecular Catalysis A, 2014, 388-389, 154-161.	4.8	2
736	Transformations of 1-(2-Aminophenyl)propan-2-ol to 2-Methylindoline. Catalysis Letters, 2015, 145, 955-963.	1.4	2
737	Heterogeneous Catalytic Kinetics. , 2016, , 345-446.		2
738	The synthesis of Ru/CNF colloidal catalysts: Comparison of ex-situ and in-situ methods. Materials Today: Proceedings, 2017, 4, 11364-11370.	0.9	2

#	ARTICLE	IF	CITATIONS
739	Catalytic myrtenol amination over gold, supported on alumina doped with ceria and zirconia. <i>Catalysis for Sustainable Energy</i> , 2018, 5, 49-58.	0.7	2
740	One-Pot Myrtenol Amination over Au, Au@Pd and Pd Nanoparticles Supported on Alumina. <i>Catalysis Letters</i> , 2019, 149, 3454-3464.	1.4	2
741	Selectivity Analysis for Networks Comprising Consecutive Reactions of Second and First Order. <i>International Journal of Chemical Reactor Engineering</i> , 2019, 17, .	0.6	2
742	Influence of Structure Sensitivity on Apparent Activation Energy of Parallel Heterogeneous Catalytic Reactions. <i>Catalysis Letters</i> , 2020, 150, 1561-1570.	1.4	2
743	Menthylamine synthesis via gold-catalyzed hydrogenation of menthone oxime. <i>Applied Catalysis A: General</i> , 2020, 605, 117799.	2.2	2
744	Hydrogenation of crude and purified d-glucosone generated by enzymatic oxidation of d-glucose. <i>RSC Advances</i> , 2020, 10, 30476-30480.	1.7	2
745	Catalytic conversion of glucose to methyl levulinate over metal-modified Beta zeolites. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2022, 135, 1971-1986.	0.8	2
746	On propene hydroformylation and hydrogenation over palladium. <i>Reaction Kinetics and Catalysis Letters</i> , 1995, 55, 199-205.	0.6	1
747	Islanding and critical phenomena in multi-component adsorption layer with lateral interactions. <i>Reaction Kinetics and Catalysis Letters</i> , 1996, 59, 111-116.	0.6	1
748	Kinetic equation for reversible heterogeneous catalytic reactions. <i>Reaction Kinetics and Catalysis Letters</i> , 2002, 76, 369-374.	0.6	1
749	Hydrogenation of 4-tert-butylphenol in a three-phase cocurrent upflow reactor. <i>Catalysis Today</i> , 2003, 79-80, 229-233.	2.2	1
750	Quantification of the oxygen effect in modification of platinum by cinchonidine. <i>Reaction Kinetics and Catalysis Letters</i> , 2004, 81, 129-136.	0.6	1
751	Liquid-phase hydrogenation of diethylbenzenes. <i>Catalysis Today</i> , 2005, 100, 453-456.	2.2	1
752	An integrated approach to modelling of chemical transformations in chemical reactors. <i>Computer Aided Chemical Engineering</i> , 2005, 20, 1531-1536.	0.3	1
753	Optimum catalyst for two-step heterogeneous catalytic reactions with multi-centered adsorption. <i>Reaction Kinetics and Catalysis Letters</i> , 2006, 89, 89-96.	0.6	1
754	Probing Surface Coverage by in situ Catalyst Potential Measurements. <i>Studies in Surface Science and Catalysis</i> , 2007, , 393-396.	1.5	1
755	Radioactive <sup>11</sup> C-methyl labeling for study of methanol co-reaction with methyl iodide on Fe-Beta zeolite. <i>Studies in Surface Science and Catalysis</i> , 2008, 174, 1095-1098.	1.5	1
756	The man behind the name: Professor Mikhail Temkin. <i>Journal of Molecular Catalysis A</i> , 2010, 315, 105-107.	4.8	1

#	ARTICLE	IF	CITATIONS
757	Mechanistic investigations of the reaction network in chemo-bio catalyzed synthesis of R-1-phenylethyl acetate. <i>Kinetics and Catalysis</i> , 2010, 51, 809-815.	0.3	1
758	Enantioselective Hydrogenation of Ethyl Benzoylformate, from Mechanism and Kinetics to Continuous Reactor Technology. <i>Topics in Catalysis</i> , 2014, 57, 1576-1581.	1.3	1
759	Novel catalysts for conversion of liquid hydrocarbon. <i>Russian Journal of Applied Chemistry</i> , 2014, 87, 1849-1857.	0.1	1
760	Evolution of heterogeneous catalytic reactions kinetics with time. <i>Comptes Rendus Chimie</i> , 2014, 17, 612-614.	0.2	1
761	Transformation of tetramethyldisiloxane in used oil alkali treatment conditions: mechanism and kinetic modeling. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 105-112.	1.6	1
762	Elementary Reactions. , 2016, , 101-152.		1
763	Complex Reactions. , 2016, , 153-219.		1
764	Kinetic Modeling. , 2016, , 665-721.		1
765	Dynamic Catalysis. , 2016, , 497-587.		1
766	Bridging Organic Chemistry and Heterogeneous Catalysis. <i>Topics in Catalysis</i> , 2016, 59, 1095-1096.	1.3	1
767	Synthesis of Co/Al <sub>2</sub> O <sub>3</sub> Catalysts and Their Application in Heptane Steam Reforming. <i>Catalysis Letters</i> , 2018, 148, 512-522.	1.4	1
768	Hydrogenation of (â€“)Carvone in Presence of Gold Catalysts: Role of the Support. <i>Catalysis in Industry</i> , 2018, 10, 159-165.	0.3	1
769	A Robust Method for the Estimation of Kinetic Parameters for Systems Including Slow and Rapid Reactionsâ€”From Differential-Algebraic Model to Differential Model. <i>Processes</i> , 2020, 8, 1552.	1.3	1
770	Physical and Chemical Characteristics and Functional Properties of Carbon Nitride Materials Obtained by Template Synthesis. <i>Theoretical and Experimental Chemistry</i> , 2020, 55, 392-397.	0.2	1
771	Chemoselective heterogeneous iridium catalyzed hydrogenation of cinnamalaniline. <i>Catalysis Science and Technology</i> , 2021, 11, 1481-1496.	2.1	1
772	Carboxymethylation of cinnamylalcohol with dimethyl carbonate over the slag-based catalysts. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2021, 133, 601-630.	0.8	1
773	Reactor Selection for Upgrading Hemicelluloses: Conventional and Miniaturised Reactors for Hydrogenations. <i>Processes</i> , 2021, 9, 1558.	1.3	1
774	Effect of protective bed composition on deactivation of a hydrotreating catalyst. <i>Journal of Chemical Technology and Biotechnology</i> , 2022, 97, 771-778.	1.6	1

#	ARTICLE	IF	CITATIONS
775	Cooperative catalytic nanokinetics. <i>Chemical Engineering Science</i> , 2022, 256, 117684.	1.9	1
776	On the application of transition state theory to heterogeneous catalytic reactions. <i>Journal of Molecular Catalysis A</i> , 1997, 123, L5-L7.	4.8	0
777	Kinetics of Methane Catalytic Combustion on Mn Substituted Barium Hexa-Aluminates Catalysts. <i>Chemie-Ingenieur-Technik</i> , 2001, 73, 665-665.	0.4	0
778	Selectivity in Hydrogenation of Crotonaldehyde on Pt/SnO <sub>2</sub> . Influence of Pretreatment. <i>Chemie-Ingenieur-Technik</i> , 2001, 73, 692-692.	0.4	0
779	Kinetics and Modelling of Solvent Effects and Product Distribution in Complex Enantioselective Hydrogenation. <i>Chemie-Ingenieur-Technik</i> , 2001, 73, 692-692.	0.4	0
780	Ruthenium-tin sol-gel catalysts: effect of the preparation and tin precursor influence. <i>Research on Chemical Intermediates</i> , 2002, 28, 561-573.	1.3	0
781	Hydrosilylation of Cinchonidine and 9-O-TMS-Cinchonidine with Triethoxysilane: Application of 11-(Triethoxysilyl)-10,11-dihydrocinchonidine as a Chiral Modifier in the Enantioselective Hydrogenation of 1-Phenylpropane-1,2-dione. <i>ChemInform</i> , 2003, 34, no.	0.1	0
782	Mechanisms of Asymmetric Heterogeneous Catalysis. <i>ChemInform</i> , 2003, 34, no.	0.1	0
783	22 Enantiospecific heterogeneous catalysis without a chiral modifier. <i>Studies in Surface Science and Catalysis</i> , 2003, 145, 137-140.	1.5	0
784	Hydrogenation of Citral Over Ni on Monolith. <i>International Journal of Chemical Reactor Engineering</i> , 2005, 3, .	0.6	0
785	Pt-modified MCM-22. ZSM-5 and Beta Zeolite Catalysts for n-Butane Isomerization: Influence of Structure, Acidity and Pt Modification. <i>Studies in Surface Science and Catalysis</i> , 2007, 172, 153-156.	1.5	0
786	Formation of Furfural in Catalytic Transformation of Levoglucosan over Mesoporous Materials. <i>ChemCatChem</i> , 2010, 2, 717-717.	1.8	0
787	2.3 Thermal Conversion of Biomass. , 2012, , 109-124.		0
788	15th Nordic Symposium on Catalysis, Mariehamn, Åland, June 16-18, 2012. <i>Topics in Catalysis</i> , 2013, 56, 511-511.	1.3	0
789	The transformation of silicon species contained in used oils under industrially relevant alkali treatment conditions. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1991-1998.	1.6	0
790	Homogeneous Catalytic Kinetics. , 2016, , 221-280.		0
791	Kinetics of Catalytic Reactions With Multiple/Multifunctional Catalysts. , 2016, , 447-496.		0
792	Mass Transfer and Catalytic Reactions. , 2016, , 589-664.		0

#	ARTICLE	IF	CITATIONS
793	Preface to the Tapio Salmi Festschrift in Industrial & Engineering Chemistry Research. Industrial & Engineering Chemistry Research, 2017, 56, 12849-12851.	1.8	0
794	Immobilized chiral rhodium nanoparticles stabilized by chiral P-ligands as efficient catalysts for the enantioselective hydrogenation of 1-phenyl-1,2-propanedione. Molecular Catalysis, 2019, 477, 110551.	1.0	0
795	Introduction to a New Open Access Journal by MDPI: Reactions. Reactions, 2020, 1, 1-2.	0.9	0
796	A Simulation Case Study for Bio-based Hydrogen Production from Hardwood Hemicellulose. Computer Aided Chemical Engineering, 2020, 48, 1735-1740.	0.3	0
797	2. Engineering catalysis. , 2020, , 49-228.		0
798	3. Engineering reactions. , 2020, , 229-390.		0
799	4. Engineering technology. , 2020, , 391-532.		0
800	Application of semibatch technology on the investigation of homogeneously catalyzed consecutive and parallel-consecutive liquid-phase reactions: Kinetic measurements and modelling. Chemical Engineering Science, 2021, 233, 116397.	1.9	0
801	Selective Oxidation/Dehydrogenation Reactions. Springer Briefs in Molecular Science, 2013, , 11-31.	0.1	0
802	Gold Catalysts Stability. Springer Briefs in Molecular Science, 2013, , 47-49.	0.1	0
803	Isomerization Reactions. Springer Briefs in Molecular Science, 2013, , 43-45.	0.1	0
804	Preparation of chiral izobenzofuranes based on 3-carene in the presence of halloysite nanocatalysts. , 2020, 64, 426-430.	0.0	0
805	CATALYTIC CONVERSION OF BIOGAS INTO SYNTHESIS GAS ON Ni, Co AND Ni-Co CATALYSTS. Series Chemistry and Technology, 2020, 5, 14-20.	0.1	0
806	Development of the electrocoagulation and electrodialysis technologies for the quantitative recovery of lanolin. Separation Science and Technology, 0, , 1-13.	1.3	0