PÃ¤ivi MÃ¤ki-Arvela

List of Publications by Year
in descending order

203 papers	8,401 citations	47 h-index	82 g-index
		47006	58581
207 all docs	207 docs citations	207 times ranked	7260 citing authors

#	Article	IF	Citations
1	Heterogeneous Catalytic Deoxygenation of Stearic Acid for Production of Biodiesel. Industrial & Engineering Chemistry Research, 2006, 45, 5708-5715.	3.7	577
2	Production of Lactic Acid/Lactates from Biomass and Their Catalytic Transformations to Commodities. Chemical Reviews, 2014, 114, 1909-1971.	47.7	367
3	Hydrocarbons for diesel fuel via decarboxylation of vegetable oils. Catalysis Today, 2005, 106, 197-200.	4.4	351
4	Synthesis of Sugars by Hydrolysis of Hemicelluloses- A Review. Chemical Reviews, 2011, 111, 5638-5666.	47.7	350
5	Catalytic Deoxygenation of Fatty Acids and Their Derivatives. Energy & Fuels, 2007, 21, 30-41.	5.1	315
6	Deoxygenation of palmitic and stearic acid over supported Pd catalysts: Effect of metal dispersion. Applied Catalysis A: General, 2009, 355, 100-108.	4.3	209
7	SO₃H-Containing Functional Carbon Materials: Synthesis, Structure, and Acid Catalysis. Chemical Reviews, 2019, 119, 11576-11630.	47.7	157
8	Biodiesel production from acid oils using sulfonated carbon catalyst derived from oil-cake waste. Journal of Molecular Catalysis A, 2014, 388-389, 167-176.	4.8	144
9	Towards carbon efficient biorefining: Multifunctional mesoporous solid acids obtained from biodiesel production wastes for biomass conversion. Applied Catalysis B: Environmental, 2015, 176-177, 20-35.	20.2	137
10	Ring opening of decalin over zeolitesI. Activity and selectivity of proton-form zeolites. Journal of Catalysis, 2004, 222, 65-79.	6.2	131
11	Decarboxylation of fatty acids over Pd supported on mesoporous carbon. Catalysis Today, 2010, 150, 28-31.	4.4	117
12	Synthesis of Biodiesel via Deoxygenation of Stearic Acid over Supported Pd/C Catalyst. Catalysis Letters, 2008, 122, 247-251.	2.6	114
13	Renewable N-doped active carbons as efficient catalysts for direct synthesis of cyclic carbonates from epoxides and CO2. Applied Catalysis B: Environmental, 2019, 241, 41-51.	20.2	114
14	Catalytic Deoxygenation of Stearic Acid and Palmitic Acid in Semibatch Mode. Catalysis Letters, 2009, 130, 48-51.	2.6	110
15	Effect of catalyst synthesis parameters on the metal particle size. Applied Catalysis A: General, 2013, 451, 251-281.	4.3	106
16	Influence of Hydrogen in Catalytic Deoxygenation of Fatty Acids and Their Derivatives over Pd/C. Industrial & Engineering Chemistry Research, 2012, 51, 8922-8927.	3.7	105
17	Cyclization of citronellal over zeolites and mesoporous materials for production of isopulegol. Journal of Catalysis, 2004, 225, 155-169.	6.2	93
18	Deoxygenation of dodecanoic acid under inert atmosphere. Fuel, 2010, 89, 2033-2039.	6.4	93

#	ARTICLE	IF	CITATIONS
19	Identification and efficient extraction method of phlorotannins from the brown seaweed Macrocystis pyrifera using an orthogonal experimental design. Algal Research, 2016, 16, 201-208.	4.6	92
20	Melamine-derived graphitic carbon nitride as a new effective metal-free catalyst for Knoevenagel condensation of benzaldehyde with ethylcyanoacetate. Catalysis Science and Technology, 2018, 8, 2928-2937.	4.1	91
21	Sulfur-free Ni catalyst for production of green diesel by hydrodeoxygenation. Journal of Catalysis, 2017, 347, 205-221.	6.2	89
22	Hydrodeoxygenation of Lignin-Derived Phenols: From Fundamental Studies towards Industrial Applications. Catalysts, 2017, 7, 265.	3.5	85
23	A route to produce renewable diesel from algae: Synthesis and characterization of biodiesel via in situ transesterification of Chlorella alga and its catalytic deoxygenation to renewable diesel. Fuel, 2015, 155, 144-154.	6.4	84
24	Reaction kinetics with catalyst deactivation in simultaneous esterification and transesterification of acid oils to biodiesel (FAME) over a mesoporous sulphonated carbon catalyst. Fuel, 2016, 166, 1-11.	6.4	81
25	Liquid phase hydrogenation of citral: suppression of side reactions. Applied Catalysis A: General, 2002, 237, 181-200.	4.3	78
26	Switchable Ionic liquids (SILs) based on glycerol and acid gases. RSC Advances, 2011, 1, 452.	3.6	78
27	Influence of the support composition and acidity on the catalytic properties of mesoporous SBA-15, Al-SBA-15, and Al2O3-supported Pt catalysts for cinnamaldehyde hydrogenation. Journal of Catalysis, 2011, 282, 228-236.	6.2	78
28	Hydrodeoxygenation of stearic acid and tall oil fatty acids over Ni-alumina catalysts: Influence of reaction parameters and kinetic modelling. Chemical Engineering Journal, 2017, 316, 401-409.	12.7	78
29	Lignosulfonate-based macro/mesoporous solid protonic acids for acetalization of glycerol to bio-additives. Applied Catalysis B: Environmental, 2018, 220, 314-323.	20.2	76
30	Imidazoliumâ€Based Poly(ionic liquid)s as New Alternatives for CO₂ Capture. ChemSusChem, 2013, 6, 1500-1509.	6.8	75
31	Hydrodeoxygenation of vanillin over carbon supported metal catalysts. Applied Catalysis A: General, 2018, 561, 137-149.	4.3	73
32	Switchable Ionic Liquids as Delignification Solvents for Lignocellulosic Materials. ChemSusChem, 2014, 7, 1170-1176.	6.8	72
33	Enantioselective Hydrogenation of 1-Phenyl-1,2-propanedione. Journal of Catalysis, 2001, 204, 281-291.	6.2	67
34	Shape selectivity and acidity effects in glycerol acetylation with acetic anhydride: Selective synthesis of triacetin over Y-zeolite and sulfonated mesoporous carbons. Journal of Catalysis, 2015, 329, 237-247.	6.2	66
35	Catalytic Deoxygenation of Tall Oil Fatty Acids Over a Palladium-Mesoporous Carbon Catalyst: A New Source of Biofuels. Topics in Catalysis, 2010, 53, 1274-1277.	2.8	65
36	Comparison of polyvinylbenzene and polyolefin supported sulphonic acid catalysts in the esterification of acetic acid. Applied Catalysis A: General, 1999, 184, 25-32.	4.3	64

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37	Catalytic Deoxygenation of C18 Fatty Acids Over Mesoporous Pd/C Catalyst for Synthesis of Biofuels. Topics in Catalysis, 2011, 54, 460-466.	2.8	64
38	Selective hydrodeoxygenation of biomass derived 5-hydroxymethylfurfural over silica supported iridium catalysts. Applied Catalysis B: Environmental, 2019, 241, 270-283.	20.2	64
39	Isomerization of linoleic acid over supported metal catalysts. Applied Catalysis A: General, 2003, 245, 257-275.	4.3	63
40	Xylose hydrogenation: kinetic and NMR studies of the reaction mechanisms. Catalysis Today, 1999, 48, 73-81.	4.4	62
41	Hydrodeoxygenation of vanillin over noble metal catalyst supported on biochars: Part II: Catalytic behaviour. Applied Catalysis B: Environmental, 2020, 268, 118425.	20.2	61
42	Comparison of different types of pretreatment and enzymatic saccharification of Macrocystis pyrifera for the production of biofuel. Algal Research, 2016, 13, 141-147.	4.6	59
43	Comparative study of sulfur-free nickel and palladium catalysts in hydrodeoxygenation of different fatty acid feedstocks for production of biofuels. Catalysis Science and Technology, 2016, 6, 1476-1487.	4.1	58
44	Acid hydrolysis of xylan. Catalysis Today, 2016, 259, 376-380.	4.4	57
45	Comparative study of the extraction methods for recovery of carotenoids from algae: extraction kinetics and effect of different extraction parameters. Journal of Chemical Technology and Biotechnology, 2014, 89, 1607-1626.	3.2	56
46	Isomerization of Î±-pinene oxide using Fe-supported catalysts: Selective synthesis of campholenic aldehyde. Applied Catalysis A: General, 2014, 470, 162-176.	4.3	55
47	Catalytic Hydroisomerization of Long-Chain Hydrocarbons for the Production of Fuels. Catalysts, 2018, 8, 534.	3.5	51
48	The Effect of Alkoxide Ionic Liquids on the Synthesis of Dimethyl Carbonate from CO2 and Methanol over ZrO2â€“MgO. Catalysis Letters, 2011, 141, 1254-1261.	2.6	49
49	Continuous liquid-phase valorization of bio-ethanol towards bio-butanol over metal modified alumina. Renewable Energy, 2015, 74, 369-378.	8.9	48
50	Zeta Potential of Beta Zeolites: Influence of Structure, Acidity, pH, Temperature and Concentration. Molecules, 2018, 23, 946.	3.8	45
51	Selective Hydrolysis of Arabinogalactan into Arabinose and Galactose Over Heterogeneous Catalysts. Catalysis Letters, 2011, 141, 408-412.	2.6	44
52	Synthesis and characterization of solid base mesoporous and microporous catalysts: Influence of the support, structure and type of base metal. Microporous and Mesoporous Materials, 2012, 152, 71-77.	4.4	44
53	Technology for rerefining used lube oils applied in Europe: a review. Journal of Chemical Technology and Biotechnology, 2013, 88, 1780-1793.	3.2	44
54	Aqueous-phase reforming of alcohols with three carbon atoms on carbon-supported Pt. Catalysis Today, 2018, 301, 78-89.	4.4	44

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55	Metal catalysts supported on biochars: Part I synthesis and characterization. Applied Catalysis B: Environmental, 2020, 268, 118423.	20.2	43
56	Liquid-phase hydrogenation of citral over an immobile silica fibre catalyst. Applied Catalysis A: General, 2000, 196, 93-102.	4.3	42
57	Selective hydrogenation of cinnamaldehyde over Ru/Y zeolite. Journal of Molecular Catalysis A, 2004, 217, 145-154.	4.8	41
58	Prins cyclization: Synthesis of compounds with tetrahydropyran moiety over heterogeneous catalysts. Journal of Molecular Catalysis A, 2015, 410, 260-270.	4.8	40
59	H- and Fe-modified zeolite beta catalysts for preparation of trans-carveol from Î±-pinene oxide. Catalysis Today, 2015, 241, 237-245.	4.4	40
60	Catalytic dehydrogenation of ethanol into acetaldehyde and isobutanol using mono- and multicomponent copper catalysts. Comptes Rendus Chimie, 2018, 21, 194-209.	0.5	39
61	Kinetic modeling of hemicellulose hydrolysis in the presence of homogeneous and heterogeneous catalysts. AICHE Journal, 2014, 60, 1066-1077.	3.6	37
62	Hemicellulose hydrolysis and hydrolytic hydrogenation over proton- and metal modified beta zeolites. Microporous and Mesoporous Materials, 2014, 189, 189-199.	4.4	37
63	Hydrogenolysis of Hydroxymatairesinol Over Carbon-Supported Palladium Catalysts. Catalysis Letters, 2005, 103, 125-131.	2.6	35
64	Hydrolytic hydrogenation of hemicellulose over metal modified mesoporous catalyst. Catalysis Today, 2012, 196, 26-33.	4.4	35
65	The influence of various synthesis methods on the catalytic activity of cerium oxide in one-pot synthesis of diethyl carbonate starting from CO2, ethanol and butylene oxide. Catalysis Today, 2013, 210, 47-54.	4.4	35
66	Stearic acid hydrodeoxygenation over Pd nanoparticles embedded in mesoporous hypercrosslinked polystyrene. Journal of Industrial and Engineering Chemistry, 2017, 46, 426-435.	5.8	35
67	The effect of oxygen and the reduction temperature of the Pt/Al2O3 catalyst in enantioselective hydrogenation of 1-phenyl-1,2-propanedione. Catalysis Today, 2000, 60, 175-184.	4.4	34
68	Hydrodeoxygenation of isoeugenol over Ni-SBA-15: Kinetics and modelling. Applied Catalysis A: General, 2019, 580, 1-10.	4.3	34
69	Batchwise and continuous enantioselective hydrogenation of 1-phenyl-1,2-propanedione catalyzed by new Pt/SiO2 fibers. Applied Catalysis A: General, 2001, 216, 73-83.	4.3	33
70	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. Journal of the Chemical Society, Perkin Transactions 1, 2002, , 2605-2612.	1.3	33
71	Thermal and catalytic oligomerisation of fatty acids. Applied Catalysis A: General, 2007, 330, 1-11.	4.3	33
72	Isomerization of Î±-Pinene Oxide Over Iron-Modified Zeolites. Topics in Catalysis, 2013, 56, 696-713.	2.8	33

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73	Efficient Câ€“C coupling of bio-based furanics and carbonyl compounds to liquid hydrocarbon precursors over lignosulfonate derived acidic carbocatalysts. Catalysis Science and Technology, 2018, 8, 2449-2459.	4.1	33
74	Isomerization of Î±-pinene oxide over ZSM-5 based micro-mesoporous materials. Applied Catalysis A: General, 2018, 560, 236-247.	4.3	33
75	Hydrodeoxygenation of Isoeugenol over Ni- and Co-Supported Catalysts. ACS Sustainable Chemistry and Engineering, 2019, 7, 14545-14560.	6.7	33
76	Kinetic and Thermodynamic Analysis of Guaiacol Hydrodeoxygenation. Catalysis Letters, 2019, 149, 2453-2467.	2.6	32
77	Catalytic Hydrogenation/Hydrogenolysis of 5â€Hydroxymethylfurfural to 2,5â€Dimethylfuran. ChemSusChem, 2021, 14, 150-168.	6.8	32
78	Hydrogenation of Citral Over a Polymer Fibre Catalyst. Catalysis Letters, 2002, 84, 219-224.	2.6	31
79	Hydrodeoxygenation of Isoeugenol over Alumina-Supported Ir, Pt, and Re Catalysts. ACS Sustainable Chemistry and Engineering, 2018, 6, 16205-16218.	6.7	31
80	Synthesis and Physicochemical Characterization of Shaped Catalysts of Î² and Y Zeolites for Cyclization of Citronellal. Industrial & Engineering Chemistry Research, 2019, 58, 18084-18096.	3.7	31
81	Hydrodeoxygenation of phenolic model compounds over zirconia supported Ir and Ni-catalysts. Reaction Kinetics, Mechanisms and Catalysis, 2019, 126, 737-759.	1.7	30
82	Hydroconversion of fatty acids and vegetable oils for production of jet fuels. Fuel, 2021, 306, 121673.	6.4	30
83	Catalyst Deactivation in Diborane Decomposition. Catalysis Letters, 2005, 105, 191-202.	2.6	29
84	Second generation bioethanol from Eucalyptus globulus Labill and Nothofagus pumilio: Ionic liquid pretreatment boosts the yields. Industrial Crops and Products, 2016, 80, 148-155.	5.2	28
85	Production of Cycloalkanes in Hydrodeoxygenation of Isoeugenol Over Ptâ€•and Irâ€Modified Bifunctional Catalysts. European Journal of Inorganic Chemistry, 2018, 2018, 2841-2854.	2.0	28
86	Effect of Binders on the Physicochemical and Catalytic Properties of Extrudate-Shaped Beta Zeolite Catalysts for Cyclization of Citronellal. Organic Process Research and Development, 2019, 23, 2456-2463.	2.7	28
87	Modeling of the enantioselective hydrogenation of 1-phenyl-1,2-propanedione over Pt/Al2O3 catalyst. Catalysis Today, 2001, 66, 411-417.	4.4	27
88	Heterogeneous Catalytic Production of Conjugated Linoleic Acid. Organic Process Research and Development, 2004, 8, 341-352.	2.7	27
89	Selective Oxidation of <scp>D</scp>â€Galactose over Gold Catalysts. ChemCatChem, 2011, 3, 1789-1798.	3.7	27
90	Treating birch wood with a switchable 1,8-diazabicyclo-[5.4.0]-undec-7-ene-glycerol carbonate ionic liquid. Holzforschung, 2012, 66, 809-815.	1.9	27

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91	Selective Preparation of trans-Carveol over Ceria Supported Mesoporous Materials MCM-41 and SBA-15. Materials, 2013, 6, 2103-2118.	2.9	27
92	Selective esterification of fatty acids with glycerol to monoglycerides over â€“SO3H functionalized carbon catalysts. Reaction Kinetics, Mechanisms and Catalysis, 2016, 119, 121-138.	1.7	27
93	Synthesis and characterization of ceria-supported catalysts for carbon dioxide transformation to diethyl carbonate. Catalysis Today, 2018, 306, 128-137.	4.4	27
94	Algal products beyond lipids: Comprehensive characterization of different products in direct saponification of green alga Chlorella sp.. Algal Research, 2015, 11, 156-164.	4.6	26
95	Chemoselective hydrogenation of citral by Pt and Pt-Sn catalysts supported on TiO2 nanoparticles and nanowires. Catalysis Today, 2015, 241, 170-178.	4.4	23
96	Sulfonated carbon as a new, reusable heterogeneous catalyst for one-pot synthesis of acetone soluble cellulose acetate. RSC Advances, 2016, 6, 8829-8837.	3.6	23
97	The influence of acidity of carbon nanofibre-supported palladium catalysts in the hydrogenolysis of hydroxymatairesinol. Catalysis Letters, 2007, 113, 141-146.	2.6	22
98	Etherification of 5-Hydroxymethylfurfural to a Biodiesel Component Over Ionic Liquid Modified Zeolites. Topics in Catalysis, 2013, 56, 765-769.	2.8	22
99	Acid hydrolysis of O-acetyl-galactoglucomannan. Catalysis Science and Technology, 2013, 3, 116-122.	4.1	22
100	Advanced Kinetic Concepts and Experimental Methods for Catalytic Three-Phase Processes. Industrial & Engineering Chemistry Research, 2004, 43, 4540-4550.	3.7	21
101	Kinetic Modeling of Propene Hydroformylation with Rh/TPP and Rh/CHDPP Catalysts. Industrial & Engineering Chemistry Research, 2008, 47, 4317-4324.	3.7	21
102	Heterogeneous Catalytic Synthesis of Methyl Lactate and Lactic Acid from Sugars and Their Derivatives. ChemSusChem, 2020, 13, 4833-4855.	6.8	21
103	Molybdenum Nitrides, Carbides and Phosphides as Highly Efficient Catalysts for the (hydro)Deoxygenation Reaction. ChemistrySelect, 2019, 4, 8453-8459.	1.5	20
104	Hydrocracking of hexadecane to jet fuel components over hierarchical Ru-modified faujasite zeolite. Fuel, 2020, 278, 118193.	6.4	20
105	Kinetics of lactose and rhamnose oxidation over supported metal catalysts. Physical Chemistry Chemical Physics, 2011, 13, 9268.	2.8	19
106	Towards optimal selective fractionation for Nordic woody biomass using novel amineâ€“organic superbase derived switchable ionic liquids (SILs). Biomass and Bioenergy, 2014, 70, 373-381.	5.7	19
107	Extraction of Spent Bleaching Earth inÂtheÂProduction of Renewable Diesel. Chemical Engineering and Technology, 2015, 38, 769-776.	1.5	19
108	Acid hydrolysis of O-acetyl-galactoglucomannan in a continuous tube reactor: a new approach to sugar monomer production. Holzforschung, 2016, 70, 187-194.	1.9	19

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109	Sustainable synthesis of N and P co-doped porous amorphous carbon using oil seed processing wastes. Materials Letters, 2016, 173, 145-148.	2.6	19
110	Fluidized-Bed Isobutane Dehydrogenation over Alumina-Supported Ga₂O₃ and Ga₂O₃â€“Cr₂O₃ Catalysts. Industrial & Engineering Chemistry Research, 2018, 57, 927-938.	3.7	19
111	Monoâ€•and Bimetallic Niâ^'Co Catalysts in Dry Reforming of Methane. ChemistrySelect, 2021, 6, 3424-3434.	1.5	19
112	Modelling of catalyst deactivation in liquid phase reactions: citral hydrogenation on Ru/Al2O3. Reaction Kinetics and Catalysis Letters, 2003, 78, 251-257.	0.6	18
113	Deactivation in Continuous Deoxygenation of C18-Fatty Feedstock over Pd/Sibunit. Topics in Catalysis, 2013, 56, 714-724.	2.8	18
114	Properties of adsorbents used for bleaching of vegetable oils and animal fats. Journal of Chemical Technology and Biotechnology, 2015, 90, 1579-1591.	3.2	18
115	Kinetics and Modelling of Levulinic Acid Esterification in Batch and Continuous Reactors. Topics in Catalysis, 2018, 61, 1856-1865.	2.8	18
116	Synthesis of menthol from citronellal over supported Ru- and Pt-catalysts in continuous flow. Reaction Chemistry and Engineering, 2019, 4, 2156-2169.	3.7	18
117	Biomass to value added chemicals: Isomerisation of Î²-pinene oxide over supported ionic liquid catalysts (SILCAs) containing Lewis acids. Catalysis Today, 2015, 257, 318-321.	4.4	17
118	Direct hydrodeoxygenation of algal lipids extracted from Chlorella alga. Journal of Chemical Technology and Biotechnology, 2017, 92, 741-748.	3.2	17
119	Biocrude production through hydroâ€liquefaction of wood biomass in supercritical ethanol using iron silica and iron beta zeolite catalysts. Journal of Chemical Technology and Biotechnology, 2019, 94, 3736-3744.	3.2	17
120	Hexadecane hydrocracking for production of jet fuels from renewable diesel over proton and metal modified H-Beta zeolites. Molecular Catalysis, 2019, 476, 110515.	2.0	17
121	The Challenge of Efficient Synthesis of Biofuels from Lignocellulose for Future Renewable Transportation Fuels. International Journal of Chemical Engineering, 2012, 2012, 1-10.	2.4	16
122	Heterogeneous catalysis for transformation of biomass derived compounds beyond fuels: Synthesis of monoterpenoid dioxinols with analgesic activity. Journal of Molecular Catalysis A, 2015, 397, 48-55.	4.8	16
123	Vanillin Hydrodeoxygenation: Kinetic Modelling and Solvent Effect. Catalysis Letters, 2018, 148, 2856-2868.	2.6	16
124	Dynamic Kinetic Resolution of racâ€2â€Hydroxyâ€1â€indanone by using a Heterogeneous Ru(OH)₃/Al₂O₃ Racemization Catalyst and Lipase. ChemCatChem, 2010, 2, 1615-1621.	3.7	15
125	Hydrogenation of Citral Over Carbon Supported Iridium Catalysts. Catalysis Letters, 2012, 142, 690-697.	2.6	15
126	Solvent Effects in the Enantioselective Hydrogenation of Ethyl Benzoylformate. Catalysis Letters, 2013, 143, 1051-1060.	2.6	15

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127	Isomerisation of Î±-Pinene Oxide to Campholenic Aldehyde Over Supported Ionic Liquid Catalysts (SILCAs). Topics in Catalysis, 2014, 57, 1533-1538.	2.8	15
128	Lactose oxidation over palladium catalysts supported on active carbons and on carbon nanofibres. Research on Chemical Intermediates, 2009, 35, 155-174.	2.7	14
129	Opening of monoterpene epoxide to a potent anti-Parkinson compound of para-menthane structure over heterogeneous catalysts. Reaction Kinetics, Mechanisms and Catalysis, 2013, 110, 449-458.	1.7	14
130	Direct Amination of Dodecanol over Noble and Transition Metal Supported Silica Catalysts. Industrial & Engineering Chemistry Research, 2017, 56, 12878-12887.	3.7	14
131	Aldol Condensation of Cyclopentanone with Valeraldehyde Over Metal Oxides. Catalysis Letters, 2019, 149, 1383-1395.	2.6	14
132	Isomerization of Î±-Pinene Oxide: Solvent Effects, Kinetics and Thermodynamics. Catalysis Letters, 2019, 149, 203-214.	2.6	14
133	Aqueous Extraction of the Sulfated Polysaccharide Ulvan from the Green Alga Ulva rigidaâ€"Kinetics and Modeling. Bioenergy Research, 2017, 10, 915-928.	3.9	13
134	Hydrodeoxygenation of Isoeugenol over Carbon-Supported Pt and Ptâ€"Re Catalysts for Production of Renewable Jet Fuel. Energy & Fuels, 2021, 35, 17755-17768.	5.1	13
135	Kinetics and catalyst deactivation in the enantioselective hydrogenation of ethyl benzoylformate over Pt/Al₂O₃. Catalysis Science and Technology, 2014, 4, 170-178.	4.1	12
136	Cascade transformations of (Â±)-citronellal to menthol over extruded Ru-MCM-41 catalysts in a continuous reactor. Catalysis Science and Technology, 2020, 10, 8108-8119.	4.1	12
137	Hierarchical Beta Zeolites As Catalysts in Î±-Pinene Oxide Isomerization. ACS Sustainable Chemistry and Engineering, 2022, 10, 6642-6656.	6.7	12
138	Kinetics upon Isomerization of Î±,Î²-Pinene Oxides over Supported Ionic Liquid Catalysts Containing Lewis Acids. Industrial & Engineering Chemistry Research, 2014, 53, 20107-20115.	3.7	11
139	Oxidation of a wood extractive betulin to biologically active oxo-derivatives using supported gold catalysts. Green Chemistry, 2019, 21, 3370-3382.	9.0	11
140	Stereoselectivity Inversion by Water Addition in the â^'SO 3 Hâ€catalyzed Tandem Prinsâ€Ritter Reaction for Synthesis of 4â€amidotetrahydropyran Derivatives. ChemCatChem, 2020, 12, 2605-2609.	3.7	11
141	The physicochemical and catalytic properties of clay extrudates in cyclization of citronellal. Applied Catalysis A: General, 2021, , 118426.	4.3	11
142	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.	2.7	11
143	Two-step synthesis of monoterpenoid dioxinols exhibiting analgesic activity from isopulegol and benzaldehyde over heterogeneous catalysts. Catalysis Today, 2017, 279, 56-62.	4.4	10
144	Prins cyclisation of (â€“)-isopulegol with benzaldehyde over ZSM-5 based micro-mesoporous catalysts for production of pharmaceuticals. Chinese Journal of Catalysis, 2019, 40, 1713-1720.	14.0	10

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145	Glucose transformations over a mechanical mixture of ZnO and Ru/C catalysts: Product distribution, thermodynamics and kinetics. Chemical Engineering Journal, 2021, 405, 126945.	12.7	10
146	Catalytic transformations of citral in a continuous flow over bifunctional Ru-MCM-41 extrudates. Catalysis Science and Technology, 2021, 11, 2873-2884.	4.1	10
147	Catalytic Transformation of Biomass-Derived 5-Hydroxymethylfurfural over Supported Bimetallic Iridium-Based Catalysts. Journal of Physical Chemistry C, 2021, 125, 9657-9678.	3.1	10
148	One-pot amination of aldehydes and ketones over heterogeneous catalysts for production of secondary amines. Catalysis Reviews - Science and Engineering, 2023, 65, 501-568.	12.9	10
149	Multitubular reactor design as an advanced screening tool for three-phase catalytic reactions. Topics in Catalysis, 2007, 45, 223-227.	2.8	9
150	The effect of palladium dispersion and promoters on lactose oxidation kinetics. Research on Chemical Intermediates, 2010, 36, 423-442.	2.7	9
151	Kinetics of dimethyl carbonate synthesis from methanol and carbon dioxide over ZrO2â€“MgO catalyst in the presence of butylene oxide as additive. Applied Catalysis A: General, 2011, 404, 39-39.	4.3	9
152	Gold Catalysts for Selective Aerobic Oxidation of the Lignan Hydroxymatairesinol to Oxomatairesinol: Catalyst Deactivation and Regeneration. Catalysis Letters, 2012, 142, 1011-1019.	2.6	9
153	Carbon supported catalysts in low temperature steam reforming of ethanol: study of catalyst performance. RSC Advances, 2015, 5, 49487-49492.	3.6	9
154	Extraction of Lipids from Chlorella Alga by Supercritical Hexane and Demonstration of Their Subsequent Catalytic Hydrodeoxygenation. Industrial & Engineering Chemistry Research, 2016, 55, 10626-10634.	3.7	9
155	Solvent-free â€œgreenâ€•amidation of stearic acid for synthesis of biologically active alkylamides over iron supported heterogeneous catalysts. Applied Catalysis A: General, 2017, 542, 350-358.	4.3	9
156	Catalytic synthesis of bioactive 2H-chromene alcohols from (â^')-isopulegol and acetone on sulfonated clays. Reaction Kinetics, Mechanisms and Catalysis, 2020, 129, 627-644.	1.7	9
157	Catalytic activity of hierarchical beta zeolites in the Prins cyclization of (â^')-isopulegol with acetone. Applied Catalysis A: General, 2021, 618, 118131.	4.3	9
158	Effect of metal particle shape on hydrogen assisted reactions. Applied Catalysis A: General, 2021, 618, 118140.	4.3	9
159	Kinetics and modeling of (R,S)â€1â€phenylethanol acylation over lipase. International Journal of Chemical Kinetics, 2010, 42, 629-639.	1.6	8
160	Pharmaceuticals and Surfactants from Algaâ€Derived Feedstock: Amidation of Fatty Acids and Their Derivatives with Amino Alcohols. ChemSusChem, 2015, 8, 2670-2680.	6.8	8
161	Mathematical modeling of starch oxidation by hydrogen peroxide in the presence of an iron catalyst complex. Chemical Engineering Science, 2016, 146, 19-25.	3.8	8
162	Catalytic oxidative transformation of betulin to its valuable oxo-derivatives over gold supported catalysts: Effect of support nature. Catalysis Today, 2021, 367, 95-110.	4.4	8

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