Keiichi Tomishige

List of Publications by Year
in descending order

284 papers	21,837 citations	3726 89 h-index	11303 136 g-index
290 all docs	290 docs citations	290 times ranked	9494 citing authors

#	Article	IF	Citations
1	Catalytic Reduction of Biomass-Derived Furanic Compounds with Hydrogen. ACS Catalysis, 2013, 3, 2655-2668.	5.5	584
2	Glycerol conversion in the aqueous solution under hydrogen over Ru/C + an ion-exchange resin and its reaction mechanism. Journal of Catalysis, 2006, 240, 213-221.	3.1	454
3	Studies on Carbon Deposition in CO2Reforming of CH4over Nickelâ€"Magnesia Solid Solution Catalysts. Journal of Catalysis, 1999, 181, 91-103.	3.1	396
4	Heterogeneous catalysis of the glycerol hydrogenolysis. Catalysis Science and Technology, 2011, 1, 179.	2.1	363
5	Direct hydrogenolysis of glycerol into 1,3-propanediol over rhenium-modified iridium catalyst. Journal of Catalysis, 2010, 272, 191-194.	3.1	355
6	Catalytic performance and characterization of Ni-Fe catalysts for the steam reforming of tar from biomass pyrolysis to synthesis gas. Applied Catalysis A: General, 2011, 392, 248-255.	2.2	297
7	Methane reforming to synthesis gas over Ni catalysts modified with noble metals. Applied Catalysis A: General, 2011, 408, 1-24.	2.2	295
8	Reaction mechanism of the glycerol hydrogenolysis to 1,3-propanediol over Irâ€"ReOx/SiO2 catalyst. Applied Catalysis B: Environmental, 2011, 105, 117-127.	10.8	293
9	Total Hydrogenation of Furfural and 5-Hydroxymethylfurfural over Supported Pdâ€"Ir Alloy Catalyst. ACS Catalysis, 2014, 4, 2718-2726.	5.5	289
10	Modification of Rh/SiO2 catalyst for the hydrogenolysis of glycerol in water. Applied Catalysis B: Environmental, 2010, 94, 318-326.	10.8	253
11	Total Hydrogenation of Furfural over a Silicaâ€Supported Nickel Catalyst Prepared by the Reduction of a Nickel Nitrate Precursor. ChemCatChem, 2012, 4, 1791-1797.	1.8	241
12	Title is missing!. Catalysis Letters, 1999, 58, 225-229.	1.4	239
13	Chemoselective hydrogenolysis of tetrahydrofurfuryl alcohol to 1,5-pentanediol. Chemical Communications, 2009, , 2035.	2.2	232
14	Catalytic properties and structure of zirconia catalysts for direct synthesis of dimethyl carbonate from methanol and carbon dioxide. Journal of Catalysis, 2000, 192, 355-362.	3.1	230
15	Catalytic performance of Rh/SiO2 in glycerol reaction under hydrogen. Green Chemistry, 2007, 9, 582.	4.6	229
16	Development of a Ru/C catalyst for glycerol hydrogenolysis in combination with an ion-exchange resin. Applied Catalysis A: General, 2007, 318, 244-251.	2.2	220
17	Catalytic and direct synthesis of dimethyl carbonate starting from carbon dioxide using CeO2-ZrO2 solid solution heterogeneous catalyst: effect of H2O removal from the reaction system. Applied Catalysis A: General, 2002, 237, 103-109.	2.2	215
18	Catalytic performance and characterization of Niâ€"Co catalysts for the steam reforming of biomass tar to synthesis gas. Fuel, 2013, 112, 654-661.	3.4	215

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19	One-pot selective conversion of furfural into 1,5-pentanediol over a Pd-added Irâ€“ReO_x/SiO₂bifunctional catalyst. Green Chemistry, 2014, 16, 617-626.	4.6	215
20	Promoting effect of Mo on the hydrogenolysis of tetrahydrofurfuryl alcohol to 1,5-pentanediol over Rh/SiO2. Journal of Catalysis, 2009, 267, 89-92.	3.1	212
21	Highly active metalâ€“acid bifunctional catalyst system for hydrogenolysis of glycerol under mild reaction conditions. Catalysis Communications, 2005, 6, 645-649.	1.6	211
22	Glycerol hydrogenolysis to 1,2-propanediol catalyzed by a heat-resistant ion-exchange resin combined with Ru/C. Applied Catalysis A: General, 2007, 329, 30-35.	2.2	211
23	Total hydrogenation of furan derivatives over silica-supported Niâ€“Pd alloy catalyst. Catalysis Communications, 2010, 12, 154-156.	1.6	210
24	Direct synthesis of organic carbonates from the reaction of CO2 with methanol and ethanol over CeO2 catalysts. Catalysis Today, 2006, 115, 95-101.	2.2	207
25	Selective hydrogenolysis and hydrogenation using metal catalysts directly modified with metal oxide species. Green Chemistry, 2017, 19, 2876-2924.	4.6	206
26	Development of highly stable nickel catalyst for methane-steam reaction under low steam to carbon ratio. Applied Catalysis A: General, 1996, 136, 49-56.	2.2	204
27	Promoting effect of Pt, Pd and Rh noble metals to the Ni0.03Mg0.97O solid solution catalysts for the reforming of CH4 with CO2. Applied Catalysis A: General, 1997, 165, 335-347.	2.2	196
28	Development of Ni catalysts for tar removal by steam gasification of biomass. Applied Catalysis B: Environmental, 2006, 68, 160-170.	10.8	196
29	Rapid synthesis of unsaturated alcohols under mild conditions by highly selective hydrogenation. Chemical Communications, 2013, 49, 7034.	2.2	195
30	Redox Properties of CeO₂ at Low Temperature: The Direct Synthesis of Imines from Alcohol and Amine. Angewandte Chemie - International Edition, 2015, 54, 864-867.	7.2	189
31	Comparative study of Rhâ€“MoOx and Rhâ€“ReOx supported on SiO2 for the hydrogenolysis of ethers and polyols. Applied Catalysis B: Environmental, 2012, 111-112, 27-37.	10.8	184
32	Câ€“O bond hydrogenolysis of cyclic ethers with OH groups over rhenium-modified supported iridium catalysts. Journal of Catalysis, 2012, 294, 171-183.	3.1	183
33	Metal catalysts for steam reforming of tar derived from the gasification of lignocellulosic biomass. Bioresource Technology, 2015, 178, 53-64.	4.8	175
34	Direct Cyclic Carbonate Synthesis from CO₂ and Diol over Carboxylation/Hydration Cascade Catalyst of CeO₂ with 2-Cyanopyridine. ACS Catalysis, 2014, 4, 1893-1896.	5.5	167
35	Steam reforming of tar from pyrolysis of biomass over Ni/Mg/Al catalysts prepared from hydrotalcite-like precursors. Applied Catalysis B: Environmental, 2011, 102, 528-538.	10.8	166
36	Catalytic materials for the hydrogenolysis of glycerol to 1,3-propanediol. Journal of Materials Chemistry A, 2014, 2, 6688-6702.	5.2	166

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37	Solid acid co-catalyst for the hydrogenolysis of glycerol to 1,3-propanediol over Ir-ReOx/SiO2. Applied Catalysis A: General, 2012, 433-434, 128-134.	2.2	164
38	Chemoselective Hydrogenolysis of Tetrahydropyranâ€2â€methanol to 1,6â€Hexanediol over Rheniumâ€Modified Carbonâ€Supported Rhodium Catalysts. ChemCatChem, 2010, 2, 547-555.	1.8	159
39	Regenerability of Hydrotalciteâ€Derived Nickelâ€“Iron Alloy Nanoparticles for Syngas Production from Biomass Tar. ChemSusChem, 2014, 7, 510-522.	3.6	159
40	Title is missing!. Catalysis Letters, 2001, 76, 71-74.	1.4	158
41	Catalytic Performance and Catalyst Structure of Nickelâ€“Magnesia Catalysts for CO2 Reforming of Methane. Journal of Catalysis, 1999, 184, 479-490.	3.1	157
42	Mechanism of the hydrogenolysis of ethers over silica-supported rhodium catalyst modified with rhenium oxide. Journal of Catalysis, 2011, 280, 221-229.	3.1	156
43	Ceriaâ€Catalyzed Conversion of Carbon Dioxide into Dimethyl Carbonate with 2â€Cyanopyridine. ChemSusChem, 2013, 6, 1341-1344.	3.6	153
44	Catalytic performance and properties of ceria based catalysts for cyclic carbonate synthesis from glycol and carbon dioxide. Green Chemistry, 2004, 6, 206.	4.6	152
45	Selective production of cyclohexanol and methanol from guaiacol over Ru catalyst combined with MgO. Green Chemistry, 2014, 16, 2197-2203.	4.6	145
46	A Highly Active and Cokeâ€Resistant Steam Reforming Catalyst Comprising Uniform Nickelâ€“Iron Alloy Nanoparticles. ChemSusChem, 2012, 5, 2312-2314.	3.6	144
47	Preparation of Niâ€“Cu/Mg/Al catalysts from hydrotalcite-like compounds for hydrogen production by steam reforming of biomass tar. International Journal of Hydrogen Energy, 2014, 39, 10959-10970.	3.8	144
48	Organic carbonate synthesis from CO2 and alcohol over CeO2 with 2-cyanopyridine: Scope and mechanistic studies. Journal of Catalysis, 2014, 318, 95-107.	3.1	142
49	One-Pot Conversion of Cellulose into <i>n</i>-Hexane over the Ir-ReO_{<i>x</i>}/SiO₂ Catalyst Combined with HZSM-5. ACS Sustainable Chemistry and Engineering, 2014, 2, 1819-1827.	3.2	140
50	Performance and characterization of rhenium-modified Rhâ€“Ir alloy catalyst for one-pot conversion of furfural into 1,5-pentanediol. Catalysis Science and Technology, 2014, 4, 2535-2549.	2.1	140
51	Recent progress in the development of catalysts for steam reforming of biomass tar model reaction. Fuel Processing Technology, 2020, 199, 106252.	3.7	139
52	Low-temperature catalytic upgrading of waste polyolefinic plastics into liquid fuels and waxes. Applied Catalysis B: Environmental, 2021, 285, 119805.	10.8	137
53	Production of 1,5-pentanediol from biomass via furfural and tetrahydrofurfuryl alcohol. Catalysis Today, 2012, 195, 136-143.	2.2	136
54	Catalytic CO₂conversion to organic carbonates with alcohols in combination with dehydration system. Catalysis Science and Technology, 2014, 4, 2830-2845.	2.1	136

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55	Direct conversion of <scp>CO₂</scp> with diols, aminoalcohols and diamines to cyclic carbonates, cyclic carbamates and cyclic ureas using heterogeneous catalysts. Journal of Chemical Technology and Biotechnology, 2014, 89, 19-33.	1.6	135
56	Catalytic Performance and Carbon Deposition Behavior of a NiOâ^'MgO Solid Solution in Methane Reforming with Carbon Dioxide under Pressurized Conditions. Industrial & Engineering Chemistry Research, 2000, 39, 1891-1897.	1.8	131
57	Catalytic performance of manganese-promoted nickel catalysts for the steam reforming of tar from biomass pyrolysis to synthesis gas. Fuel, 2013, 103, 122-129.	3.4	130
58	Oneâ€Pot Conversion of Sugar and Sugar Polyols to <i>n</i>â€Alkanes without Cï£¿C Dissociation over the Irâ€ReO_{<i>x</i>}/SiO₂ Catalyst Combined with Hâ€ZSMâ€5. ChemSusChem, 2013, 6, 613-621.	3.6	128
59	Hydrogenolysis of 1,2â€Propanediol for the Production of Biopropanols from Glycerol. ChemSusChem, 2010, 3, 728-736.	3.6	125
60	Heterogeneous CeO2 catalyst for the one-pot synthesis of organic carbamates from amines, CO2 and alcohols. Green Chemistry, 2011, 13, 3406.	4.6	123
61	Catalytic Total Hydrodeoxygenation of Biomassâ€Derived Polyfunctionalized Substrates to Alkanes. ChemSusChem, 2015, 8, 1114-1132.	3.6	123
62	Catalytic performance of Ni/CeO2/Al2O3 modified with noble metals in steam gasification of biomass. Catalysis Today, 2008, 131, 146-155.	2.2	122
63	Hydrodeoxygenation of Vicinal OH Groups over Heterogeneous Rhenium Catalyst Promoted by Palladium and Ceria Support. Angewandte Chemie - International Edition, 2015, 54, 1897-1900.	7.2	122
64	Energy Efficient Production of Hydrogen and Syngas from Biomass:â€‰ Development of Low-Temperature Catalytic Process for Cellulose Gasification. Environmental Science & Technology, 2002, 36, 4476-4481.	4.6	119
65	Comparative study on steam reforming of model aromatic compounds of biomass tar over Ni and Niâ€"Fe alloy nanoparticles. Applied Catalysis A: General, 2015, 506, 151-162.	2.2	119
66	Structure of the Active Sites on H3PO4/ZrO2 Catalysts for Dimethyl Carbonate Synthesis from Methanol and Carbon Dioxide. Journal of Physical Chemistry B, 2001, 105, 10653-10658.	1.2	116
67	Nickelâ€"iron alloy catalysts for reforming of hydrocarbons: preparation, structure, and catalytic properties. Catalysis Science and Technology, 2017, 7, 3952-3979.	2.1	116
68	Structure of ReO_{<i>x</i>} Clusters Attached on the Ir Metal Surface in Irâ€"ReO_{<i>x</i>}/SiO₂ for the Hydrogenolysis Reaction. Journal of Physical Chemistry C, 2012, 116, 23503-23514.	1.5	115
69	Selective Hydrogenation of Crotonaldehyde to Crotyl Alcohol over Metal Oxide Modified Ir Catalysts and Mechanistic Insight. ACS Catalysis, 2016, 6, 3600-3609.	5.5	115
70	Performance, Structure, and Mechanism of ReO_{<i>x</i>}â€"Pd/CeO₂ Catalyst for Simultaneous Removal of Vicinal OH Groups with H₂. ACS Catalysis, 2016, 6, 3213-3226.	5.5	114
71	Demethoxylation of guaiacol and methoxybenzenes over carbon-supported Ruâ€"Mn catalyst. Applied Catalysis B: Environmental, 2016, 182, 193-203.	10.8	113
72	Production of Biobutanediols by the Hydrogenolysis of Erythritol. ChemSusChem, 2012, 5, 1991-1999.	3.6	112

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73	Low pressure CO2 to dimethyl carbonate by the reaction with methanol promoted by acetonitrile hydration. Chemical Communications, 2009, , 4596.	2.2	111
74	A comparison of Rh/CeO2/SiO2 catalysts with steam reforming catalysts, dolomite and inert materials as bed materials in low throughput fluidized bed gasification systems. Biomass and Bioenergy, 2004, 26, 269-279.	2.9	106
75	Promoting effect of MgO addition to Pt/Ni/CeO2/Al2O3 in the steam gasification of biomass. Applied Catalysis B: Environmental, 2009, 86, 36-44.	10.8	106
76	Deoxydehydration with Molecular Hydrogen over Ceria-Supported Rhenium Catalyst with Gold Promoter. ACS Catalysis, 2016, 6, 6393-6397.	5.5	106
77	Tandem Carboxylationâ€Hydration Reaction System from Methanol, CO₂ and Benzonitrile to Dimethyl Carbonate and Benzamide Catalyzed by CeO₂. ChemCatChem, 2011, 3, 365-370.	1.8	104
78	Gasification of different biomasses in a dual-bed gasifier system combined with novel catalysts with high energy efficiency. Applied Catalysis A: General, 2004, 267, 95-102.	2.2	103
79	Heterogeneous CeO2-catalyzed selective synthesis of cyclic carbamates from CO2 and aminoalcohols in acetonitrile solvent. Journal of Catalysis, 2013, 305, 191-203.	3.1	103
80	Title is missing!. Catalysis Letters, 2000, 66, 59-62.	1.4	102
81	Demonstration of real biomass gasification drastically promoted by effective catalyst. Applied Catalysis A: General, 2003, 246, 103-116.	2.2	100
82	Catalytic synthesis of dialkyl carbonate from low pressure CO2 and alcohols combined with acetonitrile hydration catalyzed by CeO2. Applied Catalysis A: General, 2010, 384, 165-170.	2.2	98
83	Highly efficient synthesis of cyclic ureas from CO2 and diamines by a pure CeO2 catalyst using a 2-propanol solvent. Green Chemistry, 2013, 15, 1567.	4.6	98
84	Direct Copolymerization of CO2 and Diols. Scientific Reports, 2016, 6, 24038.	1.6	98
85	Characterization of Reâ€"Pd/SiO₂ Catalysts for Hydrogenation of Stearic Acid. ACS Catalysis, 2015, 5, 7034-7047.	5.5	96
86	Selective hydrogenation of higher saturated carboxylic acids to alcohols using a ReOxâ€"Pd/SiO2 catalyst. Catalysis Science and Technology, 2012, 2, 2221.	2.1	94
87	Promoting effect of Pt addition to Ni/CeO2/Al2O3 catalyst for steam gasification of biomass. Catalysis Communications, 2008, 9, 195-201.	1.6	93
88	Selective transformation of hemicellulose (xylan) into n-pentane, pentanols or xylitol over a rhenium-modified iridium catalyst combined with acids. Green Chemistry, 2016, 18, 165-175.	4.6	93
89	A novel catalytic process for cellulose gasification to synthesis gas. Catalysis Communications, 2001, 2, 63-68.	1.6	92
90	Promoting Effect of Re Addition to Rh/SiO2 on Glycerol Hydrogenolysis. Chemistry Letters, 2009, 38, 540-541.	0.7	91

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91	Catalyst property of Coâ€“Fe alloy particles in the steam reforming of biomass tar and toluene. Applied Catalysis B: Environmental, 2012, 121-122, 95-104.	10.8	90
92	Syngas production from methane reforming with CO2/H2O and O2 over NiOâ€“MgO solid solution catalyst in fluidized bed reactors. Catalysis Today, 2004, 89, 405-418.	2.2	88
93	Characterization and catalytic performance of hydrotalcite-derived Ni-Cu alloy nanoparticles catalysts for steam reforming of 1-methylnaphthalene. Applied Catalysis B: Environmental, 2016, 192, 171-181.	10.8	87
94	Hydrogenation of dicarboxylic acids to diols over Reâ€“Pd catalysts. Catalysis Science and Technology, 2016, 6, 5668-5683.	2.1	87
95	CeO2-catalyzed direct synthesis of dialkylureas from CO2 and amines. Journal of Catalysis, 2016, 343, 75-85.	3.1	86
96	Dimethyl carbonate synthesis by oxidative carbonylation on activated carbon supported CuCl2 catalysts: catalytic properties and structural change. Applied Catalysis A: General, 1999, 181, 95-102.	2.2	84
97	Additive effect of noble metals on NiO-MgO solid solution in oxidative steam reforming of methane under atmospheric and pressurized conditions. Applied Catalysis A: General, 2006, 299, 145-156.	2.2	84
98	Recent development of production technology of diesel- and jet-fuel-range hydrocarbons from inedible biomass. Fuel Processing Technology, 2019, 193, 404-422.	3.7	83
99	Catalytic Performance of Rh/CeO2 in the Gasification of Cellulose to Synthesis Gas at Low Temperature. Industrial & Engineering Chemistry Research, 2001, 40, 5894-5900.	1.8	82
100	Development of Ni-Based Catalysts for Steam Reforming of Tar Derived from Biomass Pyrolysis. Chinese Journal of Catalysis, 2012, 33, 583-594.	6.9	80
101	Selective Hydrogenolysis of Glycerol to 1,3-Propanediol over Rhenium-Oxide-Modified Iridium Nanoparticles Coating Rutile Titania Support. ACS Catalysis, 2019, 9, 10913-10930.	5.5	80
102	Catalyst performance in reforming of tar derived from biomass over noble metal catalysts. Green Chemistry, 2003, 5, 399.	4.6	77
103	Production of Renewable Hexanols from Mechanocatalytically Depolymerized Cellulose by Using Irâ€ReO_{<i>x</i>}/SiO₂ catalyst. ChemSusChem, 2015, 8, 628-635.	3.6	77
104	Novel Route to Propylene Carbonate: Selective Synthesis from Propylene Glycol and Carbon Dioxide. Catalysis Letters, 2004, 95, 45-49.	1.4	75
105	Selective Hydrogenation of Lactic Acid to 1,2â€Propanediol over Highly Active Rutheniumâ€“Molybdenum Oxide Catalysts. ChemSusChem, 2015, 8, 1170-1178.	3.6	75
106	Hydrogenolysis of CO bond over Re-modified Ir catalyst in alkane solvent. Applied Catalysis A: General, 2013, 468, 418-425.	2.2	74
107	Production of renewable hydrogen by steam reforming of tar from biomass pyrolysis over supported Co catalysts. International Journal of Hydrogen Energy, 2013, 38, 3572-3581.	3.8	74
108	Perspective on catalyst development for glycerol reduction to C3 chemicals with molecular hydrogen. Research on Chemical Intermediates, 2018, 44, 3879-3903.	1.3	74

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109	Catalytic performance and characterization of Co/Mg/Al catalysts prepared from hydrotalcite-like precursors for the steam gasification of biomass. Applied Catalysis B: Environmental, 2014, 150-151, 82-92.	10.8	73
110	Erythritol: Another C4 Platform Chemical in Biomass Refinery. ACS Omega, 2020, 5, 2520-2530.	1.6	73
111	Preferential CO Oxidation in a H₂-Rich Stream on Ptâˆ’ReO_{<i>x</i>}/SiO₂: Catalyst Structure and Reaction Mechanism. Journal of Physical Chemistry C, 2010, 114, 6518-6526.	1.5	72
112	Selective oxidation of glycerol to dihydroxyacetone over a Pdâ€"Ag catalyst. Catalysis Science and Technology, 2012, 2, 1150.	2.1	72
113	Role of Re Species and Acid Cocatalyst on Ir-ReO_x/SiO₂in the C-O Hydrogenolysis of Biomass-Derived Substrates. Chemical Record, 2014, 14, 1041-1054.	2.9	72
114	Autothermal CO2 reforming of methane over NiOâ€"MgO solid solution catalysts under pressurized condition. Catalysis Today, 2000, 63, 439-445.	2.2	71
115	Title is missing!. Catalysis Letters, 2002, 84, 69-74.	1.4	71
116	Comparative study between fluidized bed and fixed bed reactors in methane reforming combined with methane combustion for the internal heat supply under pressurized condition. Applied Catalysis A: General, 2002, 223, 225-238.	2.2	70
117	Stable Low-Valence ReO_{<i>x</i>} Cluster Attached on Rh Metal Particles Formed by Hydrogen Reduction and Its Formation Mechanism. Journal of Physical Chemistry C, 2012, 116, 3079-3090.	1.5	70
118	Mechanistic Study of Hydrogen-Driven Deoxydehydration over Ceria-Supported Rhenium Catalyst Promoted by Au Nanoparticles. ACS Catalysis, 2018, 8, 584-595.	5.5	70
119	Highly active iridiumâ€"rhenium catalyst condensed on silica support for hydrogenolysis of glycerol to 1,3-propanediol. Applied Catalysis B: Environmental, 2019, 256, 117775.	10.8	70
120	CO₂ Conversion with Alcohols and Amines into Carbonates, Ureas, and Carbamates over CeO₂ Catalyst in the Presence and Absence of 2â€Cyanopyridine. Chemical Record, 2019, 19, 1354-1379.	2.9	70
121	Catalytic Conversions of Furfural to Pentanediols. Catalysis Surveys From Asia, 2015, 19, 249-256.	1.0	67
122	Promoting effect of Ru on Ir-ReOx/SiO2 catalyst in hydrogenolysis of glycerol. Journal of Molecular Catalysis A, 2014, 388-389, 177-187.	4.8	65
123	Noble metal promoted Ni0.03Mg0.97O solid solution catalysts for the reforming of CH4 with CO2. Catalysis Letters, 1996, 39, 91-95.	1.4	64
124	Direct Synthesis of Alternating Polycarbonates from CO₂ and Diols by Using a Catalyst System of CeO₂ and 2-Furonitrile. ACS Sustainable Chemistry and Engineering, 2019, 7, 6304-6315.	3.2	64
125	Selective hydrogenation of nitroarenes to aminoarenes using a MoO_x-modified Ru/SiO₂ catalyst under mild conditions. Chemical Communications, 2017, 53, 3377-3380.	2.2	63
126	Oxidative steam reforming of methane under atmospheric and pressurized conditions over Pd/NiOâ€"MgO solid solution catalysts. Applied Catalysis A: General, 2006, 308, 1-12.	2.2	62

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127	Cu Sub-Nanoparticles on Cu/CeO₂ as an Effective Catalyst for Methanol Synthesis from Organic Carbonate by Hydrogenation. ACS Catalysis, 2016, 6, 376-380.	5.5	62
128	Reaction between N2O and CH4 over Fe ion-exchanged BEA zeolite catalyst: A possible role of nascent oxygen transients from N2O. Physical Chemistry Chemical Physics, 2003, 5, 3328.	1.3	61
129	Catalyst Development for the Hydrogenolysis of Biomass-Derived Chemicals to Value-Added Ones. Catalysis Surveys From Asia, 2011, 15, 111-116.	1.0	61
130	Promoting effect of trace Pd on hydrotalcite-derived Ni/Mg/Al catalyst in oxidative steam reforming of biomass tar. Applied Catalysis B: Environmental, 2015, 179, 412-421.	10.8	61
131	Catalytic hydrogenation of amino acids to amino alcohols with complete retention of configuration. Chemical Communications, 2014, 50, 6656.	2.2	57
132	Effect of hydrogen on n-butane isomerization over Pt/SO42âˆ’-ZrO2 and Pt/SiO2+SO42âˆ’-ZrO2. Applied Catalysis A: General, 2000, 194-195, 383-393.	2.2	56
133	Hydrodeoxygenation of Guaiacol to Phenol over Ceria-Supported Iron Catalysts. ACS Catalysis, 2020, 10, 14624-14639.	5.5	55
134	Effective methane reforming with CO2 and O2 under pressurized condition using NiOâ€“MgO and fluidized bed reactor. Catalysis Communications, 2001, 2, 11-15.	1.6	54
135	<i>In Situ</i> Formed Fe Cation Modified Ir/MgO Catalyst for Selective Hydrogenation of Unsaturated Carbonyl Compounds. ACS Catalysis, 2017, 7, 5103-5111.	5.5	53
136	Catalytic Production of Branched Small Alkanes from Biohydrocarbons. ChemSusChem, 2015, 8, 2472-2475.	3.6	52
137	Synthesis of 2â€Butanol by Selective Hydrogenolysis of 1,4â€Anhydroerythritol over Molybdenum Oxideâ€Modified Rhodiumâ€Supported Silica. ChemSusChem, 2016, 9, 1680-1688.	3.6	51
138	Transformation of Sugars into Chiral Polyols over a Heterogeneous Catalyst. Angewandte Chemie - International Edition, 2018, 57, 8058-8062.	7.2	51
139	Role of Catalyst and Its Fluidization in the Catalytic Gasification of Biomass to Syngas at Low Temperature. Industrial & Engineering Chemistry Research, 2002, 41, 4567-4575.	1.8	50
140	Direct dimethyl carbonate synthesis from CO₂ and methanol catalyzed by CeO₂ and assisted by 2-cyanopyridine: a cradle-to-gate greenhouse gas emission study. Green Chemistry, 2021, 23, 457-469.	4.6	50
141	Insight into the Mechanism of Hydrogenation of Amino Acids to Amino Alcohols Catalyzed by a Heterogeneous MoO_{<i>x</i>}â€Modified Rh Catalyst. Chemistry - A European Journal, 2015, 21, 3097-3107.	1.7	49
142	Direct Catalytic Synthesis of <i>N</i>â€Arylcarbamates from CO₂, Anilines and Alcohols. ChemCatChem, 2018, 10, 4821-4825.	1.8	49
143	Oxidative steam reforming of methane over Ni/Î±-Al2O3 modified with trace noble metals. Applied Catalysis A: General, 2009, 358, 186-192.	2.2	48
144	Catalytic performance and characterization of Coâ€“Fe bcc alloy nanoparticles prepared from hydrotalcite-like precursors in the steam gasification of biomass-derived tar. Applied Catalysis B: Environmental, 2014, 160-161, 701-715.	10.8	47

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145	Regioselectivity and Reaction Mechanism of Ruâ€Catalyzed Hydrogenolysis of Squalane and Model Alkanes. ChemSusChem, 2017, 10, 189-198.	3.6	47
146	Ultra-stable Ni catalysts for methane reforming by carbon dioxide. Catalysis Surveys From Asia, 1998, 2, 3-15.	1.2	45
147	Promotion of Oxidation and Reduction of Rh Species by Interaction of Rh and CeO₂ over Rh/CeO₂/SiO₂. Journal of Physical Chemistry C, 2008, 112, 2574-2583.	1.5	44
148	High catalytic activity of Co-Fe/Î±-Al2O3 in the steam reforming of toluene in the presence of hydrogen. Applied Catalysis B: Environmental, 2013, 140-141, 652-662.	10.8	44
149	Characterization of oil-extracted residue biomass of Botryococcus braunii as a biofuel feedstock and its pyrolytic behavior. Applied Energy, 2014, 132, 475-484.	5.1	44
150	One-pot catalytic selective synthesis of 1,4-butanediol from 1,4-anhydroerythritol and hydrogen. Green Chemistry, 2018, 20, 2547-2557.	4.6	44
151	Substrate-Specific Heterogeneous Catalysis of CeO₂ by Entropic Effects via Multiple Interactions. ACS Catalysis, 2015, 5, 20-26.	5.5	43
152	Selective Hydrodeoxygenation of 2-Furancarboxylic Acid to Valeric Acid over Molybdenum-Oxide-Modified Platinum Catalyst. ACS Sustainable Chemistry and Engineering, 2016, 4, 6253-6257.	3.2	43
153	Highly Efficient Synthesis of Alkyl <i>N</i>-Arylcarbamates from CO₂, Anilines, and Branched Alcohols with a Catalyst System of CeO₂ and 2-Cyanopyridine. ACS Sustainable Chemistry and Engineering, 2019, 7, 16795-16802.	3.2	43
154	Effective NbO_{<i>x</i>}-Modified Ir/SiO₂ Catalyst for Selective Gas-Phase Hydrogenation of Crotonaldehyde to Crotyl Alcohol. ACS Sustainable Chemistry and Engineering, 2017, 5, 3685-3697.	3.2	42
155	One-pot synthesis of 1,3-butanediol by 1,4-anhydroerythritol hydrogenolysis over a tungsten-modified platinum on silica catalyst. Green Chemistry, 2020, 22, 2375-2380.	4.6	42
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