

# Chemoselective Hydrogenolysis of Tetrahydropyranâ€” Rheniumâ€”Modified Carbonâ€”Supported Rhodium Cat

ChemCatChem

2, 547-555

DOI: [10.1002/cctc.201000018](https://doi.org/10.1002/cctc.201000018)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Total hydrogenation of furan derivatives over silica-supported Niâ€‘Pd alloy catalyst. Catalysis Communications, 2010, 12, 154-156.	1.6	210
2	Direct catalytic conversion of furfural to 1,5-pentanediol by hydrogenolysis of the furan ring under mild conditions over Pt/Co <sub>2</sub> AlO <sub>4</sub> catalyst. Chemical Communications, 2011, 47, 3924.	2.2	187
3	An attempt to achieve the direct hydrogenolysis of tetrahydrofurfuryl alcohol in supercritical carbon dioxide. Catalysis Science and Technology, 2011, 1, 1466.	2.1	42
4	Selective Hydrogenolysis of Polyols and Cyclic Ethers over Bifunctional Surface Sites on Rhodiumâ€‘Rhenium Catalysts. Journal of the American Chemical Society, 2011, 133, 12675-12689.	6.6	439
5	Heterogeneous catalysis of the glycerol hydrogenolysis. Catalysis Science and Technology, 2011, 1, 179.	2.1	363
6	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
7	Catalyst Development for the Hydrogenolysis of Biomass-Derived Chemicals to Value-Added Ones. Catalysis Surveys From Asia, 2011, 15, 111-116.	1.0	61
8	Renewable Chemicals: Dehydroxylation of Glycerol and Polyols. ChemSusChem, 2011, 4, 1017-1034.	3.6	282
10	Caprolactam from Renewable Resources: Catalytic Conversion of 5â€‘Hydroxymethylfurfural into Caprolactone. Angewandte Chemie - International Edition, 2011, 50, 7083-7087.	7.2	409
11	Reaction mechanism of the glycerol hydrogenolysis to 1,3-propanediol over Irâ€‘ReO <sub>x</sub> /SiO <sub>2</sub> catalyst. Applied Catalysis B: Environmental, 2011, 105, 117-127.	10.8	293
12	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
13	Production of Biobutanediols by the Hydrogenolysis of Erythritol. ChemSusChem, 2012, 5, 1991-1999.	3.6	112
14	Production of 1,5-pentanediol from biomass via furfural and tetrahydrofurfuryl alcohol. Catalysis Today, 2012, 195, 136-143.	2.2	136
15	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
16	Stable Low-Valence ReO <sub>x</sub> 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
17	Structure of ReO <sub>x</sub> Clusters Attached on the Ir Metal Surface in Irâ€‘ReO <sub>x</sub> /SiO <sub>2</sub> for the Hydrogenolysis Reaction. Journal of Physical Chemistry C, 2012, 116, 23503-23514.	1.5	115
18	Solid acid co-catalyst for the hydrogenolysis of glycerol to 1,3-propanediol over Ir-ReO <sub>x</sub> /SiO <sub>2</sub> . Applied Catalysis A: General, 2012, 433-434, 128-134.	2.2	164
19	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

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20	From 5-Hydroxymethylfurfural (HMF) to Polymer Precursors: Catalyst Screening Studies on the Conversion of 1,2,6-hexanetriol to 1,6-hexanediol. <i>Topics in Catalysis</i> , 2012, 55, 612-619.	1.3	100
21	Comparative study of Rh <sup>+</sup> MoO <sub>x</sub> and Rh <sup>+</sup> ReO <sub>x</sub> supported on SiO <sub>2</sub> for the hydrogenolysis of ethers and polyols. <i>Applied Catalysis B: Environmental</i> , 2012, 111-112, 27-37.	10.8	184
22	Catalytic Reduction of Biomass-Derived Furanic Compounds with Hydrogen. <i>ACS Catalysis</i> , 2013, 3, 2655-2668.	5.5	584
23	Bimetallic RhRe/C catalysts for the production of biomass-derived chemicals. <i>Journal of Catalysis</i> , 2013, 308, 226-236.	3.1	69
24	Hydrogenolysis of CO bond over Re-modified Ir catalyst in alkane solvent. <i>Applied Catalysis A: General</i> , 2013, 468, 418-425.	2.2	74
25	Catalytic Conversion of Furfural into a 2,5-Furandicarboxylic Acid-Based Polyester with Total Carbon Utilization. <i>ChemSusChem</i> , 2013, 6, 47-50.	3.6	102
26	One-Pot Conversion of Sugar and Sugar Polyols to <i>n</i> -Alkanes without C-C Dissociation over the Ir-ReO <sub>x</sub> /SiO <sub>2</sub> Catalyst Combined with H-ZSM-5. <i>ChemSusChem</i> , 2013, 6, 613-621.	3.6	128
27	Emerging catalytic processes for the production of adipic acid. <i>Catalysis Science and Technology</i> , 2013, 3, 1465-1479.	2.1	266
28	Transformation of biomass via the selective hydrogenolysis of CO bonds by nanoscale metal catalysts. <i>Current Opinion in Chemical Engineering</i> , 2013, 2, 178-183.	3.8	42
29	Catalyst studies on the ring opening of tetrahydrofuran <sup>+</sup> dimethanol to 1,2,6-hexanetriol. <i>Catalysis Today</i> , 2013, 210, 106-116.	2.2	67
30	Rapid synthesis of unsaturated alcohols under mild conditions by highly selective hydrogenation. <i>Chemical Communications</i> , 2013, 49, 7034.	2.2	195
31	CHAPTER 2. General Reaction Mechanisms in Hydrogenation and Hydrogenolysis for Biorefining. <i>RSC Energy and Environment Series</i> , 2014, , 22-51.	0.2	0
32	Role of Re Species and Acid Cocatalyst on Ir-ReO <sub>x</sub> /SiO <sub>2</sub> in the C-O Hydrogenolysis of Biomass-Derived Substrates. <i>Chemical Record</i> , 2014, 14, 1041-1054.	2.9	72
33	Direct conversion of CO <sub>2</sub> with diols, aminoalcohols and diamines to cyclic carbonates, cyclic carbamates and cyclic ureas using heterogeneous catalysts. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 19-33.	1.6	135
34	Selective Hydrogenolysis of C=O Bonds Using the Interaction of the Catalyst Surface and OH Groups. <i>Topics in Current Chemistry</i> , 2014, 353, 127-162.	4.0	29
35	Reaction Mechanisms for the Heterogeneous Hydrogenolysis of Biomass-Derived Glycerol to Propanediols. <i>Progress in Reaction Kinetics and Mechanism</i> , 2014, 39, 1-15.	1.1	28
36	Pt-Re synergy in aqueous-phase reforming of glycerol and the water-gas shift reaction. <i>Journal of Catalysis</i> , 2014, 311, 88-101.	3.1	103
37	One-pot selective conversion of furfural into 1,5-pentanediol over a Pd-added Ir <sup>+</sup> ReO <sub>x</sub> /SiO <sub>2</sub> bifunctional catalyst. <i>Green Chemistry</i> , 2014, 16, 617-626.	4.6	215

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38	Conversion of Biomass into Chemicals over Metal Catalysts. <i>Chemical Reviews</i> , 2014, 114, 1827-1870.	23.0	1,504
39	Promoting effect of Ru on Ir-ReO <sub>x</sub> /SiO <sub>2</sub> catalyst in hydrogenolysis of glycerol. <i>Journal of Molecular Catalysis A</i> , 2014, 388-389, 177-187.	4.8	65
40	Direct Synthesis of 1,6-Hexanediol from HMF over a Heterogeneous Pd/ZrP Catalyst using Formic Acid as Hydrogen Source. <i>ChemSusChem</i> , 2014, 7, 96-100.	3.6	196
41	Aqueous phase reforming of glycerol over Re-promoted Pt and Rh catalysts. <i>Green Chemistry</i> , 2014, 16, 853-863.	4.6	70
42	Role of MoO <sub>3</sub> on a Rhodium Catalyst in the Selective Hydrogenolysis of Biomass-Derived Tetrahydrofurfuryl Alcohol into 1,5-Pentanediol. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25555-25566.	1.5	63
43	Catalytic materials for the hydrogenolysis of glycerol to 1,3-propanediol. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6688-6702.	5.2	166
44	One-Pot Conversion of Cellulose into n-Hexane over the Ir-ReO <sub>x</sub> /SiO <sub>2</sub> Catalyst Combined with HZSM-5. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1819-1827.	3.2	140
45	Chemoselective hydrogenolysis of tetrahydrofurfuryl alcohol to 1,5-pentanediol over Ir-MoO <sub>x</sub> /SiO <sub>2</sub> catalyst. <i>Journal of Energy Chemistry</i> , 2014, 23, 427-434.	7.1	62
46	One-Step Conversion of Biomass-Derived 5-Hydroxymethylfurfural to 1,2,6-Hexanetriol Over Ni-Co-Al Mixed Oxide Catalysts Under Mild Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 173-180.	3.2	113
47	Total Hydrogenation of Furfural and 5-Hydroxymethylfurfural over Supported Pd-Ir Alloy Catalyst. <i>ACS Catalysis</i> , 2014, 4, 2718-2726.	5.5	289
48	Performance and characterization of rhenium-modified Rh-Ir alloy catalyst for one-pot conversion of furfural into 1,5-pentanediol. <i>Catalysis Science and Technology</i> , 2014, 4, 2535-2549.	2.1	140
49	Theoretical studies on the electronic structures and photoelectron spectra of tri-rhenium oxide clusters: Re <sub>3</sub> O <sub>n</sub> (n = 6, 7, 8, 9, 10, 11, 12). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 117, 651-657.		
50	Insights into the Oxidation State and Location of Rhenium in Re-Pd/TiO <sub>2</sub> Catalysts for Aqueous-Phase Selective Hydrogenation of Succinic Acid to 1,4-Butanediol as a Function of Palladium and Rhenium Deposition Methods. <i>ChemCatChem</i> , 2015, 7, 2161-2178.	1.8	58
51	Acceptorless dehydrogenative lactonization of diols by Pt-loaded SnO <sub>2</sub> catalysts. <i>RSC Advances</i> , 2015, 5, 29072-29075.	1.7	13
52	One-Step Process for the Production of BTEX and LPG-like fuel from Pentanediol. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 381-385.	3.2	4
53	Insight into the Mechanism of Hydrogenation of Amino Acids to Amino Alcohols Catalyzed by a Heterogeneous MoO <sub>x</sub> -Modified Rh Catalyst. <i>Chemistry - A European Journal</i> , 2015, 21, 3097-3107.	1.7	49
54	Selective hydrogenolysis of tetrahydrofurfuryl alcohol to 1,5-pentanediol over vanadium modified Ir/SiO <sub>2</sub> catalyst. <i>Catalysis Today</i> , 2015, 245, 93-99.	2.2	49
55	One-Pot Catalytic Conversion of Raw Lignocellulosic Biomass into Gasoline Alkanes and Chemicals over LiTaMo <sub>6</sub> and Ru/C in Aqueous Phosphoric Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1745-1755.	3.2	164

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56	Combination of supported bimetallic rhodium–molybdenum catalyst and cerium oxide for hydrogenation of amide. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 014901.	2.8	21
57	Characterization of Re–Pd/SiO <sub>2</sub> Catalysts for Hydrogenation of Stearic Acid. <i>ACS Catalysis</i> , 2015, 5, 7034-7047.	5.5	96
58	Evidence for the Bifunctional Nature of Pt–Re Catalysts for Selective Glycerol Hydrogenolysis. <i>ACS Catalysis</i> , 2015, 5, 5679-5695.	5.5	108
59	Catalytic Conversions of Furfural to Pentanediols. <i>Catalysis Surveys From Asia</i> , 2015, 19, 249-256.	1.0	67
60	Ir–Re alloy as a highly active catalyst for the hydrogenolysis of glycerol to 1,3-propanediol. <i>Catalysis Science and Technology</i> , 2015, 5, 1540-1547.	2.1	71
61	Implementation of concepts derived from model compound studies in the separation and conversion of bio-oil to fuel. <i>Catalysis Today</i> , 2015, 257, 185-199.	2.2	76
62	Synthesis of 2-Butanol by Selective Hydrogenolysis of 1,4-Anhydroerythritol over Molybdenum Oxide-Modified Rhodium-Supported Silica. <i>ChemSusChem</i> , 2016, 9, 1680-1688.	3.6	51
63	Selective Hydrogenation of Crotonaldehyde to Crotyl Alcohol over Metal Oxide Modified Ir Catalysts and Mechanistic Insight. <i>ACS Catalysis</i> , 2016, 6, 3600-3609.	5.5	115
64	Palladium–Rhenium Catalysts for Selective Hydrogenation of Furfural: Evidence for an Optimum Surface Composition. <i>ACS Catalysis</i> , 2016, 6, 7438-7447.	5.5	59
65	Effect of carbon supports on RhRe bifunctional catalysts for selective hydrogenolysis of tetrahydropyran-2-methanol. <i>Catalysis Science and Technology</i> , 2016, 6, 7841-7851.	2.1	25
66	DFT Studies of the Selective C=O Hydrogenolysis and Ring-Opening of Biomass-Derived Tetrahydrofurfuryl Alcohol over Rh(111) surfaces. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19124-19134.	1.5	17
67	Catalytic Conversion of Renewable Resources into Bulk and Fine Chemicals. <i>Chemical Record</i> , 2016, 16, 2787-2800.	2.9	39
68	Conjugation-Driven $\alpha$ -Reverse Mars–van Krevelen-Type Radical Mechanism for Low-Temperature C=O Bond Activation. <i>Journal of the American Chemical Society</i> , 2016, 138, 8104-8113.	6.6	84
69	Bifunctional Catalysts for Upgrading of Biomass-Derived Oxygenates: A Review. <i>ACS Catalysis</i> , 2016, 6, 5026-5043.	5.5	372
70	Efficient hydrogenolysis of biomass-derived furfuryl alcohol to 1,2- and 1,5-pentanediols over a non-precious Cu <sub>3</sub> AlO <sub>4.5</sub> bifunctional catalyst. <i>Catalysis Science and Technology</i> , 2016, 6, 668-671.	2.1	77
71	Production of C4 and C5 alcohols from biomass-derived materials. <i>Green Chemistry</i> , 2016, 18, 2579-2597.	4.6	147
72	Synthesis of 1,6-hexanediol from HMF over double-layered catalysts of Pd/SiO <sub>2</sub> + Ir–ReO <sub>x</sub> /SiO <sub>2</sub> in a fixed-bed reactor. <i>Green Chemistry</i> , 2016, 18, 2175-2184.	4.6	127
73	WO modified Cu/Al <sub>2</sub> O <sub>3</sub> as a high-performance catalyst for the hydrogenolysis of glucose to 1,2-propanediol. <i>Catalysis Today</i> , 2016, 261, 116-127.	2.2	54

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74	New Reaction Schemes for the Production of Biomass-Based Chemicals Created by Selective Catalytic Hydrogenolysis: Catalysts with Noble Metal and Tungsten. <i>Green Chemistry and Sustainable Technology</i> , 2016, , 203-225.	0.4	0
75	One-step Pd/C and Eu(OTf) <sub>3</sub> catalyzed hydrodeoxygenation of branched C <sub>11</sub> and C <sub>12</sub> biomass-based furans to the corresponding alkanes. <i>Applied Catalysis A: General</i> , 2017, 534, 40-45.	2.2	26
76	Selective C <sup>+</sup> O Hydrogenolysis of Erythritol over Supported Rh/ReO <sub>x</sub> Catalysts in the Aqueous Phase. <i>ChemCatChem</i> , 2017, 9, 2768-2783.	1.8	39
77	Production of 1,6-hexanediol from tetrahydropyran-2-methanol by dehydration-hydration and hydrogenation. <i>Green Chemistry</i> , 2017, 19, 1390-1398.	4.6	24
78	Single-Pot Conversion of Tetrahydrofurfuryl Alcohol into Tetrahydropyran over a Ni/HZSM-5 Catalyst under Aqueous-Phase Conditions. <i>ChemCatChem</i> , 2017, 9, 1402-1408.	1.8	22
79	Chemoselective hydrogenation of biomass derived 5-hydroxymethylfurfural to diols: Key intermediates for sustainable chemicals, materials and fuels. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 287-296.	8.2	165
80	Catalysts for selective hydrogenation of furfural derived from the double complex salt [Pd(NH <sub>3</sub> ) <sub>4</sub> ](ReO <sub>4</sub> ) <sub>2</sub> on $\gamma$ -Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Catalysis</i> , 2017, 350, 111-121.	3.1	18
81	Conversion of Furfural to 1,5-Pentanediol: Process Synthesis and Analysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4699-4706.	3.2	104
82	Hydrogenolysis of Glycidol as an Alternative Route to Obtain 1,3-Propanediol Selectively Using MO <sub>x</sub> -Modified Nickel-Copper Catalysts Supported on Acid Mesoporous Saponite. <i>ChemCatChem</i> , 2017, 9, 3670-3680.	1.8	18
83	Selective hydrogenolysis and hydrogenation using metal catalysts directly modified with metal oxide species. <i>Green Chemistry</i> , 2017, 19, 2876-2924.	4.6	206
84	Unique isodimorphism and isomorphism behaviors of even-odd poly(hexamethylene dicarboxylate) aliphatic copolyesters. <i>Polymer</i> , 2017, 115, 106-117.	1.8	36
85	New catalytic strategies for $\alpha,\omega$ -diols production from lignocellulosic biomass. <i>Faraday Discussions</i> , 2017, 202, 247-267.	1.6	61
86	[Ru(triphos)(CH <sub>3</sub> CN) <sub>3</sub> ](OTf) <sub>2</sub> as a homogeneous catalyst for the hydrogenation of biomass derived 2,5-hexanedione and 2,5-dimethyl-furan in aqueous acidic medium. <i>Green Chemistry</i> , 2017, 19, 4666-4679.	4.6	13
87	Adipic Acid Production via Metal-Free Selective Hydrogenolysis of Biomass-Derived Tetrahydrofuran-2,5-Dicarboxylic Acid. <i>ACS Catalysis</i> , 2017, 7, 6619-6634.	5.5	55
88	Selective hydrogenation of furfuryl alcohol to tetrahydrofurfuryl alcohol over Ni/ $\gamma$ -Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Research on Chemical Intermediates</i> , 2017, 43, 1179-1195.	1.3	26
89	Self-Assembled Materials for Catalysis. , 2017, , 329-349.		0
90	Foundational techniques for catalyst design in the upgrading of biomass-derived multifunctional molecules. <i>Progress in Energy and Combustion Science</i> , 2018, 67, 1-30.	15.8	24
91	Catalytic cascade conversion of furfural to 1,4-pentanediol in a single reactor. <i>Green Chemistry</i> , 2018, 20, 1770-1776.	4.6	71

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92	Catalytic Advances in the Production and Application of Biomass-Derived 2,5-Dihydroxymethylfuran. ACS Catalysis, 2018, 8, 2959-2980.	5.5	210
93	Transformation of Sugars into Chiral Polyols over a Heterogeneous Catalyst. Angewandte Chemie - International Edition, 2018, 57, 8058-8062.	7.2	51
95	Base free oxidation of 1,6-hexanediol to adipic acid over supported noble metal mono- and bimetallic catalysts. Applied Catalysis A: General, 2018, 551, 88-97.	2.2	19
96	Synthesis of 1,6-Hexanediol from Cellulose Derived Tetrahydrofuran-Dimethanol with Pt-WO <sub>x</sub> /TiO <sub>2</sub> Catalysts. ACS Catalysis, 2018, 8, 1427-1439.	5.5	111
97	Transformation of Sugars into Chiral Polyols over a Heterogeneous Catalyst. Angewandte Chemie, 2018, 130, 8190-8194.	1.6	11
98	Hydrogenolysis of glycerol with in-situ produced H <sub>2</sub> by aqueous-phase reforming of glycerol using Pt-modified Ir-ReO <sub>x</sub> /SiO <sub>2</sub> catalyst. Catalysis Today, 2018, 303, 106-116.	2.2	36
99	C <sup>18</sup> O Hydrogenolysis of Tetrahydrofurfuryl Alcohol to 1,5-Pentanediol Over Bi-functional Nickel-Tungsten Catalysts. ChemCatChem, 2018, 10, 4652-4664.	1.8	28
100	How Catalysts and Experimental Conditions Determine the Selective Hydroconversion of Furfural and 5-Hydroxymethylfurfural. Chemical Reviews, 2018, 118, 11023-11117.	23.0	585
101	Bimetallic Pt-Re Nanoporous Networks: Synthesis, Characterization, and Catalytic Reactivity. Journal of Physical Chemistry C, 2018, 122, 24801-24808.	1.5	18
102	Catalytic conversion of 5-hydroxymethylfurfural to some value-added derivatives. Green Chemistry, 2018, 20, 3657-3682.	4.6	233
103	Selective hydrogenolysis of glycerol to 1,3-propanediol over Pt-WO <sub>x</sub> /SAPO-34 catalysts. Molecular Catalysis, 2018, 456, 22-30.	1.0	37
104	Selective hydrogenolysis of furfuryl alcohol to 1,5- and 1,2-pentanediol over Cu-LaCoO <sub>3</sub> catalysts with balanced CuO-CoO sites. Chinese Journal of Catalysis, 2018, 39, 1711-1723.	6.9	42
105	Composition-tuned oxidation levels of Pt-Re bimetallic nanoparticles for the etherification of allylic alcohols. Nano Research, 2018, 11, 5902-5912.	5.8	3
106	Catalytic Approaches to Monomers for Polymers Based on Renewables. ACS Catalysis, 2019, 9, 8012-8067.	5.5	146
107	Catalytic C-O bond hydrogenolysis of tetrahydrofuran-dimethanol over metal supported WO <sub>x</sub> /TiO <sub>2</sub> catalysts. Applied Catalysis B: Environmental, 2019, 258, 117945.	10.8	32
108	Selective synthesis of 1,3-propanediol from glycidol over a carbon film encapsulated Co catalyst. Catalysis Science and Technology, 2019, 9, 5022-5030.	2.1	6
109	Effect of carbon chain length on catalytic C O bond cleavage of polyols over Rh-ReO <sub>x</sub> /ZrO <sub>2</sub> in aqueous phase. Applied Catalysis A: General, 2019, 586, 117213.	2.2	23
110	Phyllosilicate-Derived CuNi/SiO <sub>2</sub> Catalysts in the Selective Hydrogenation of Adipic Acid to 1,6-Hexanediol. ACS Sustainable Chemistry and Engineering, 2019, 7, 17872-17881.	3.2	21



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111	Aerobic oxidation of C <sub>4</sub> –C <sub>6</sub> 1,5-diols to the diacids in base-free medium over zirconia-supported (bi)metallic catalysts. <i>New Journal of Chemistry</i> , 2019, 43, 9873-9885.	1.4	8
112	CO <sub>2</sub> Conversion with Alcohols and Amines into Carbonates, Ureas, and Carbamates over CeO <sub>2</sub> Catalyst in the Presence and Absence of 2-Cyanopyridine. <i>Chemical Record</i> , 2019, 19, 1354-1379.	2.9	70
113	Taming heterogeneous rhenium catalysis for the production of biomass-derived chemicals. <i>Chinese Chemical Letters</i> , 2020, 31, 1071-1077.	4.8	27
114	Design of supported metal catalysts modified with metal oxides for hydrodeoxygenation of biomass-related molecules. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020, 22, 13-21.	3.2	41
115	Catalytic valorization of biomass and bioplatfoms to chemicals through deoxygenation. <i>Advances in Catalysis</i> , 2020, , 1-108.	0.1	9
116	Conversion of 5-hydroxymethylfurfural to chemicals: A review of catalytic routes and product applications. <i>Fuel Processing Technology</i> , 2020, 209, 106528.	3.7	86
117	Chemical Synthesis of Adipic Acid from Glucose and Derivatives: Challenges for Nanocatalyst Design. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18732-18754.	3.2	8
118	Furfuryl alcohol—a promising platform chemical. , 2020, , 323-353.		6
119	Reduction of sugar derivatives to valuable chemicals: utilization of asymmetric carbons. <i>Catalysis Science and Technology</i> , 2020, 10, 3805-3824.	2.1	20
120	Hydrogenolysis of tetrahydrofuran-2-carboxylic acid over tungsten-modified rhodium catalyst. <i>Applied Catalysis A: General</i> , 2020, 602, 117723.	2.2	9
121	Aerobic oxidation of 1,6-hexanediol to adipic acid over Au-based catalysts: the role of basic supports. <i>Catalysis Science and Technology</i> , 2020, 10, 2644-2651.	2.1	14
122	Solid catalysts for conversion of furfural and its derivatives to alkanediols. <i>Catalysis Reviews - Science and Engineering</i> , 2020, 62, 566-606.	5.7	12
123	Experimental and correlated liquid–liquid equilibrium data for (water+1,6-hexanediol+1-butanol or Tj ETQq 0 0 0 rBT <sub>1</sub> /Overlock	1.0	1
124	Production of biomass-derived monomers through catalytic conversion of furfural and hydroxymethylfurfural. <i>Green Chemical Engineering</i> , 2021, 2, 158-173.	3.3	14
125	Experimental and correlated liquid-liquid equilibrium data for water+1,6-hexanediol+1-pentanol/3-methyl-1-butanol/2-methyl-2-butanol at different temperatures. <i>Journal of Chemical Thermodynamics</i> , 2021, 154, 106341.	1.0	7
126	Promoting effect of PdZn alloy for selective hydrogenation of 5-hydroxymethylfurfural: An experimental and density functional theory study. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26545.	1.0	3
127	Ru Nanoparticles on a Sulfonated Carbon Layer Coated SBA-15 for Catalytic Hydrogenation of Furfural into 1, 4-pentanediol. <i>Catalysis Letters</i> , 2021, 151, 2513-2526.	1.4	14
128	Detailed Characterization of MoO <sub>x</sub> -Modified Rh Metal Particles by Ambient-Pressure XPS and DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4540-4549.	1.5	21



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129	The Role of the Surface Acid–Base Nature of Nanocrystalline Hydroxyapatite Catalysts in the 1,6-Hexanediol Conversion. <i>Nanomaterials</i> , 2021, 11, 659.	1.9	6
130	Promoting the Effect of Au on the Selective Hydrogenolysis of Glycerol to 1,3-Propanediol over the Pt/WO <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 5705-5715.	3.2	26
132	Catalytic Transformation of the Furfural Platform into Bifunctionalized Monomers for Polymer Synthesis. <i>ACS Catalysis</i> , 2021, 11, 10058-10083.	5.5	60
133	Effect of Support Properties on Selective Butanediols Production from Erythritol using Ir/ReO <sub>x</sub> Catalysts. <i>ChemCatChem</i> , 2021, 13, 3889-3906.	1.8	6
134	Insights into the Nature of the Active Sites of Pt-WO <sub>x</sub> /Al <sub>2</sub> O <sub>3</sub> Catalysts for Glycerol Hydrogenolysis into 1,3-Propanediol. <i>Catalysts</i> , 2021, 11, 1171.	1.6	8
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