

# Xinbin

## List of Publications by Year in descending order

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204  
papers

12,699  
citations

43973

48  
h-index

27345

106  
g-index

207  
all docs

207  
docs citations

207  
times ranked

11327  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in catalytic hydrogenation of carbon dioxide. <i>Chemical Society Reviews</i> , 2011, 40, 3703.	18.7	2,713
2	Ethylene glycol: properties, synthesis, and applications. <i>Chemical Society Reviews</i> , 2012, 41, 4218.	18.7	819
3	Synthesis of Ethanol via Syngas on Cu/SiO <sub>2</sub> Catalysts with Balanced Cu <sup>0</sup> and Cu <sup>+</sup> Sites. <i>Journal of the American Chemical Society</i> , 2012, 134, 13922-13925.	6.6	614
4	Recent advances in capture of carbon dioxide using alkali-metal-based oxides. <i>Energy and Environmental Science</i> , 2011, 4, 3805.	15.6	318
5	Recent advances in dialkyl carbonates synthesis and applications. <i>Chemical Society Reviews</i> , 2015, 44, 3079-3116.	18.7	262
6	A copper-phyllsilicate core-sheath nanoreactor for carbon-oxygen hydrogenolysis reactions. <i>Nature Communications</i> , 2013, 4, 2339.	5.8	254
7	Morphology control of ceria nanocrystals for catalytic conversion of CO <sub>2</sub> with methanol. <i>Nanoscale</i> , 2013, 5, 5582.	2.8	237
8	Insight into the Balancing Effect of Active Cu Species for Hydrogenation of Carbon-Oxygen Bonds. <i>ACS Catalysis</i> , 2015, 5, 6200-6208.	5.5	203
9	Chemoselective synthesis of ethanol via hydrogenation of dimethyl oxalate on Cu/SiO <sub>2</sub> : Enhanced stability with boron dopant. <i>Journal of Catalysis</i> , 2013, 297, 142-150.	3.1	200
10	Propane dehydrogenation over Pt-Cu bimetallic catalysts: the nature of coke deposition and the role of copper. <i>Nanoscale</i> , 2014, 6, 10000-10008.	2.8	191
11	Sorption enhanced steam reforming of ethanol on Ni-CaO-Al <sub>2</sub> O <sub>3</sub> multifunctional catalysts derived from hydrotalcite-like compounds. <i>Energy and Environmental Science</i> , 2012, 5, 8942.	15.6	168
12	Hydrogen Production via Steam Reforming of Ethanol on Phyllosilicate-Derived Ni/SiO <sub>2</sub> : Enhanced Metal-Support Interaction and Catalytic Stability. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 161-173.	3.2	167
13	Hydrogen Production via Glycerol Steam Reforming over Ni/Al <sub>2</sub> O <sub>3</sub> : Influence of Nickel Precursors. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 1052-1062.	3.2	164
14	An Alternative Synthetic Approach for Efficient Catalytic Conversion of Syngas to Ethanol. <i>Accounts of Chemical Research</i> , 2014, 47, 1483-1492.	7.6	159
15	The synergistic effect between Ni sites and Ni-Fe alloy sites on hydrodeoxygenation of lignin-derived phenols. <i>Applied Catalysis B: Environmental</i> , 2019, 253, 348-358.	10.8	155
16	Hydrogenation of CO <sub>2</sub> to formic acid on supported ruthenium catalysts. <i>Catalysis Today</i> , 2011, 160, 184-190.	2.2	150
17	Hydrogenation of dimethyl oxalate to ethylene glycol on a Cu/SiO <sub>2</sub> /cordierite monolithic catalyst: Enhanced internal mass transfer and stability. <i>AIChE Journal</i> , 2012, 58, 2798-2809.	1.8	125
18	Thermodynamic analysis of hydrogen production from glycerol autothermal reforming. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 5683-5690.	3.8	123

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19	Effect of Cerium Oxide Doping on the Performance of CaO-Based Sorbents during Calcium Looping Cycles. <i>Environmental Science &amp; Technology</i> , 2015, 49, 5021-5027.	4.6	120
20	Hydrogen production from ethanol steam reforming over nickel based catalyst derived from Ni/Mg/Al hydrotalcite-like compounds. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 6699-6708.	3.8	117
21	Thermodynamic analysis of glycerol dry reforming for hydrogen and synthesis gas production. <i>Fuel</i> , 2009, 88, 2148-2153.	3.4	113
22	Branched TiO <sub>2</sub> nanoarrays sensitized with CdS quantum dots for highly efficient photoelectrochemical water splitting. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12026.	1.3	109
23	Efficient tuning of surface copper species of Cu/SiO <sub>2</sub> catalyst for hydrogenation of dimethyl oxalate to ethylene glycol. <i>Chemical Engineering Journal</i> , 2017, 313, 759-768.	6.6	104
24	Sintering-resistant Ni-based reforming catalysts obtained via the nanoconfinement effect. <i>Chemical Communications</i> , 2013, 49, 9383.	2.2	101
25	WO <sub>x</sub> domain size, acid properties and mechanistic aspects of glycerol hydrogenolysis over Pt/WO <sub>x</sub> /ZrO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , 2019, 242, 410-421.	10.8	98
26	Thermodynamic Analysis of Glycerin Steam Reforming. <i>Energy &amp; Fuels</i> , 2008, 22, 4285-4291.	2.5	95
27	Understanding electronic and optical properties of anatase TiO <sub>2</sub> photocatalysts co-doped with nitrogen and transition metals. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9549.	1.3	93
28	Effects of MoO <sub>3</sub> loading and calcination temperature on the activity of the sulphur-resistant methanation catalyst MoO <sub>3</sub> /γ-Al <sub>2</sub> O <sub>3</sub> . <i>Applied Catalysis A: General</i> , 2012, 431-432, 144-150.	2.2	87
29	First-row transition metal oxide oxygen evolution electrocatalysts: regulation strategies and mechanistic understandings. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5417-5432.	2.5	86
30	Hydrogenation of dimethyl oxalate to ethylene glycol over mesoporous Cu-MCM-41 catalysts. <i>AIChE Journal</i> , 2013, 59, 2530-2539.	1.8	85
31	Steam reforming of ethanol over Ni/ZrO <sub>2</sub> catalysts: Effect of support on product distribution. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 2940-2949.	3.8	81
32	Balancing Effect between Adsorption and Diffusion on Catalytic Performance Inside Hollow Nanostructured Catalyst. <i>ACS Catalysis</i> , 2019, 9, 2969-2976.	5.5	80
33	A High-Performance Nanoreactor for Carbonate Oxygen Bond Hydrogenation Reactions Achieved by the Morphology of Nanotube-Assembled Hollow Spheres. <i>ACS Catalysis</i> , 2018, 8, 1218-1226.	5.5	75
34	Kinetics Study of Hydrogenation of Dimethyl Oxalate over Cu/SiO <sub>2</sub> Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 1243-1250.	1.8	72
35	Elucidating the nature and role of Cu species in enhanced catalytic carbonylation of dimethyl ether over Cu/H-MOR. <i>Catalysis Science and Technology</i> , 2015, 5, 4378-4389.	2.1	72
36	Enhanced oxygen mobility and reactivity for ethanol steam reforming. <i>AIChE Journal</i> , 2012, 58, 516-525.	1.8	70

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37	Hydrogen production by glycerol steam reforming with/without calcium oxide sorbent: A comparative study of thermodynamic and experimental work. <i>Fuel Processing Technology</i> , 2010, 91, 1812-1818.	3.7	67
38	Modifying the acidity of H-MOR and its catalytic carbonylation of dimethyl ether. <i>Chinese Journal of Catalysis</i> , 2016, 37, 1530-1537.	6.9	64
39	Selective oxidation of methanol to dimethoxymethane over bifunctional VO <sub>x</sub> /TS-1 catalysts. <i>Chemical Communications</i> , 2011, 47, 9345.	2.2	59
40	Selective oxidation of methanol to dimethoxymethane on V <sub>2</sub> O <sub>5</sub> –MoO <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Applied Catalysis B: Environmental</i> , 2014, 160-161, 161-172.	10.8	59
41	Effects of extrinsic defects originating from the interfacial reaction of CeO <sub>2</sub> -x-nickel silicate on catalytic performance in methane dry reforming. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119278.	10.8	58
42	An Effective CuZn–SiO <sub>2</sub> Bimetallic Catalyst Prepared by Hydrolysis Precipitation Method for the Hydrogenation of Methyl Acetate to Ethanol. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 4526-4534.	1.8	57
43	An in situ infrared study of dimethyl carbonate synthesis from carbon dioxide and methanol over well-shaped CeO <sub>2</sub> . <i>Chinese Chemical Letters</i> , 2017, 28, 65-69.	4.8	56
44	Surface-functionalized palladium catalysts for electrochemical CO <sub>2</sub> reduction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15884-15890.	5.2	55
45	A Pd–Fe/Al <sub>2</sub> O <sub>3</sub> /cordierite monolithic catalyst for CO coupling to oxalate. <i>Chemical Engineering Science</i> , 2011, 66, 3513-3522.	1.9	52
46	Enhanced CO <sub>2</sub> adsorption capacity and stability using CaO-based adsorbents treated by hydration. <i>AIChE Journal</i> , 2013, 59, 3586-3593.	1.8	52
47	N-doped Ag/TiO <sub>2</sub> hollow spheres for highly efficient photocatalysis under visible-light irradiation. <i>RSC Advances</i> , 2013, 3, 720-724.	1.7	52
48	Active Cu <sup>0</sup> –Cu <sup>+</sup> Sites for the Hydrogenation of Carbon–Oxygen Bonds over Cu/CeO <sub>2</sub> Catalysts. <i>ACS Catalysis</i> , 2022, 12, 1315-1325.	5.5	51
49	Hydrogen production by glycerol steam reforming with in situ hydrogen separation: A thermodynamic investigation. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 10252-10256.	3.8	49
50	Kinetic studies on chromium-catalyzed conversion of glucose into 5-hydroxymethylfurfural in alkylimidazolium chloride ionic liquid. <i>Chemical Engineering Journal</i> , 2014, 237, 55-61.	6.6	49
51	Hydrogenation of Dimethyl Oxalate over Copper-Based Catalysts: Acid–Base Properties and Reaction Paths. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 9699-9707.	1.8	49
52	Incorporation of Zr into Calcium Oxide for CO <sub>2</sub> Capture by a Simple and Facile Sol–Gel Method. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 7873-7879.	1.8	49
53	Three dimensional Ag/KCC-1 catalyst with a hierarchical fibrous framework for the hydrogenation of dimethyl oxalate. <i>RSC Advances</i> , 2016, 6, 12788-12791.	1.7	49
54	Fabrication of multi-shelled hollow Mg-modified CaCO <sub>3</sub> microspheres and their improved CO <sub>2</sub> adsorption performance. <i>Chemical Engineering Journal</i> , 2017, 321, 401-411.	6.6	47

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55	Electrochemical reduction of acetonitrile to ethylamine. <i>Nature Communications</i> , 2021, 12, 1949.	5.8	47
56	Ni-containing Cu/SiO <sub>2</sub> catalyst for the chemoselective synthesis of ethanol via hydrogenation of dimethyl oxalate. <i>Catalysis Today</i> , 2016, 276, 28-35.	2.2	46
57	Promoting the activity of Ce-incorporated MOR in dimethyl ether carbonylation through tailoring the distribution of Brønsted acids. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117777.	10.8	46
58	A comparative study of CeO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> support prepared with different methods and its application on MoO <sub>3</sub> /CeO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> catalyst for sulfur-resistant methanation. <i>Applied Surface Science</i> , 2013, 285, 267-277.	3.1	45
59	Modification of Y Zeolite with Alkaline Treatment: Textural Properties and Catalytic Activity for Diethyl Carbonate Synthesis. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 6349-6356.	1.8	44
60	Investigation of sulfur-resistant, highly active unsupported MoS <sub>2</sub> catalysts for synthetic natural gas production from CO methanation. <i>Fuel Processing Technology</i> , 2013, 110, 249-257.	3.7	44
61	Glycerol Hydrogenolysis to 1,3-Propanediol on Tungstate/Zirconia-Supported Platinum: Hydrogen Spillover Facilitated by Pt(111) Formation. <i>ChemCatChem</i> , 2016, 8, 3663-3671.	1.8	44
62	Crystal structures, acid-base properties, and reactivities of CexZr1-xO <sub>2</sub> catalysts. <i>Catalysis Today</i> , 2009, 148, 323-328.	2.2	43
63	Enhancements of dimethyl carbonate synthesis from methanol and carbon dioxide: The in situ hydrolysis of 2-cyanopyridine and crystal face effect of ceria. <i>Chinese Chemical Letters</i> , 2015, 26, 1096-1100.	4.8	42
64	Elucidating Surface and Bulk Phase Transformation in Fischer-Tropsch Synthesis Catalysts and Their Influences on Catalytic Performance. <i>ACS Catalysis</i> , 2019, 9, 7976-7983.	5.5	42
65	The Mn-promoted double-shelled CaCO <sub>3</sub> hollow microspheres as high efficient CO <sub>2</sub> adsorbents. <i>Chemical Engineering Journal</i> , 2019, 372, 53-64.	6.6	42
66	Highly efficient CO <sub>2</sub> electrolysis within a wide operation window using octahedral tin oxide single crystals. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7848-7856.	5.2	42
67	Facile Synthesis of Cu@CeO <sub>2</sub> and Its Catalytic Behavior for the Hydrogenation of Methyl Acetate to Ethanol. <i>ChemCatChem</i> , 2017, 9, 2085-2090.	1.8	41
68	Monodisperse Nano-Fe <sub>3</sub> O <sub>4</sub> on γ-Al <sub>2</sub> O <sub>3</sub> Catalysts for Fischer-Tropsch Synthesis to Lower Olefins: Promoter and Size Effects. <i>ChemCatChem</i> , 2017, 9, 3144-3152.	1.8	41
69	Stable Surface-Anchored Cu Nanocubes for CO <sub>2</sub> Electroreduction to Ethylene. <i>ACS Applied Nano Materials</i> , 2020, 3, 8328-8334.	2.4	41
70	Deactivation Kinetics for the Carbonylation of Dimethyl Ether to Methyl Acetate on H-MOR. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 13618-13627.	1.8	40
71	Double-Site Doping of a V Promoter on Ni <sub>x</sub> /V-MgAl Catalysts for the DRM Reaction: Simultaneous Effect on CH <sub>4</sub> and CO <sub>2</sub> Activation. <i>ACS Catalysis</i> , 2021, 11, 8749-8765.	5.5	40
72	Hydrogenation of Dimethyl Oxalate Using Extruded Cu/SiO <sub>2</sub> Catalysts: Mechanical Strength and Catalytic Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 13935-13943.	1.8	39

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73	Catalytic Oxidative Carbonylation over Cu <sub>2</sub> O Nanoclusters Supported on Carbon Materials: The Role of the Carbon Support. <i>ChemCatChem</i> , 2014, 6, 2671-2679.	1.8	39
74	Enhanced Fischer-Tropsch synthesis performance of iron-based catalysts supported on nitric acid treated N-doped CNTs. <i>Applied Surface Science</i> , 2015, 347, 643-650.	3.1	38
75	Iron Nanoparticles Tuned to Catalyze CO <sub>2</sub> Electroreduction in Acidic Solutions through Chemical Microenvironment Engineering. <i>ACS Catalysis</i> , 2022, 12, 7517-7523.	5.5	38
76	On the origin of reactivity of steam reforming of ethylene glycol on supported Ni catalysts. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4066.	1.3	37
77	Cu-doped zeolites for catalytic oxidative carbonylation: The role of Brønsted acids. <i>Applied Catalysis A: General</i> , 2012, 417-418, 236-242.	2.2	37
78	Porous Spherical CaO-based Sorbents via PSS-Assisted Fast Precipitation for CO <sub>2</sub> Capture. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 18072-18077.	4.0	37
79	Influence of Acid Strength on the Reactivity of Dimethyl Ether Carbonylation over H-MOR. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2027-2034.	3.2	37
80	Nano-Assembled Mordenite Zeolite with Tunable Morphology for Carbonylation of Dimethyl Ether. <i>ACS Applied Nano Materials</i> , 2020, 3, 6460-6468.	2.4	37
81	Ni-Zn Dual Sites Switch the CO <sub>2</sub> Hydrogenation Selectivity via Tuning of the d-Band Center. <i>ACS Catalysis</i> , 2022, 12, 3346-3356.	5.5	36
82	Copper Phyllosilicate Nanotube Catalysts for the Chemosynthesis of Cyclohexane via Hydrodeoxygenation of Phenol. <i>ACS Catalysis</i> , 2022, 12, 4724-4736.	5.5	35
83	Superior reactivity of skeletal Ni-based catalysts for low-temperature steam reforming to produce CO-free hydrogen. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3295.	1.3	34
84	Microwave synthesis, characterization and transesterification activities of Ti-MCM-41. <i>Microporous and Mesoporous Materials</i> , 2012, 156, 22-28.	2.2	33
85	Effect of cobalt and its adding sequence on the catalytic performance of MoO <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> toward sulfur-resistant methanation. <i>Journal of Energy Chemistry</i> , 2014, 23, 35-42.	7.1	32
86	High-Performance CoCu Catalyst Encapsulated in KIT-6 for Higher Alcohol Synthesis from Syngas. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 200-209.	3.2	32
87	Role of Brønsted Acid Sites within 8-MR of Mordenite in the Deactivation Roadmap for Dimethyl Ether Carbonylation. <i>ACS Catalysis</i> , 2021, 11, 5647-5657.	5.5	32
88	Effect of sulfidation temperature on the catalytic activity of MoO <sub>3</sub> /CeO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> toward sulfur-resistant methanation. <i>Applied Catalysis A: General</i> , 2013, 466, 224-232.	2.2	31
89	Template-induced Al distribution in MOR and enhanced activity in dimethyl ether carbonylation. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11374-11381.	1.3	30
90	Tuning Porosity of Ti-MCM-41: Implication for Shape Selective Catalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 2154-2160.	4.0	29

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91	Selective Oxidation of Methanol to Dimethoxymethane over Mesoporous Al <sub>2</sub> O <sub>3</sub> Catalysts. <i>AIChE Journal</i> , 2013, 59, 2587-2593.	1.8	29
92	Ultrasound assisted interfacial synthesis of gold nanocones. <i>Chemical Communications</i> , 2013, 49, 987-989.	2.2	29
93	A well fabricated PtSn/SiO <sub>2</sub> catalyst with enhanced synergy between Pt and Sn for acetic acid hydrogenation to ethanol. <i>RSC Advances</i> , 2016, 6, 51005-51013.	1.7	29
94	Synthesis of Dimethyl Carbonate through Vapor-Phase Carbonylation Catalyzed by Pd-Doped Zeolites: Interaction of Lewis Acidic Sites and Pd Species. <i>ChemCatChem</i> , 2013, 5, 2174-2177.	1.8	28
95	Copper-Catalyzed and Proton-Directed Selective Hydroxymethylation of Alkynes with CO <sub>2</sub> . <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3984-3988.	7.2	28
96	Effect of SSIE structure of Cu-exchanged $\beta$ and $\gamma$ on the selectivity for synthesis of diethyl carbonate by oxidative carbonylation of ethanol: A comparative investigation. <i>Catalysis Today</i> , 2010, 149, 202-206.	2.2	27
97	High CO methanation activity on zirconia-supported molybdenum sulfide catalyst. <i>Journal of Energy Chemistry</i> , 2014, 23, 625-632.	7.1	27
98	Adsorption of CO <sub>2</sub> on MgAl-CO <sub>3</sub> LDHs-Derived Sorbents with 3D Nanoflower-like Structure. <i>Energy &amp; Fuels</i> , 2018, 32, 5313-5320.	2.5	27
99	Fabrication of Fe <sub>2</sub> C Embedded in Hollow Carbon Spheres: a High-Performance and Stable Catalyst for Fischer-Tropsch Synthesis. <i>ChemCatChem</i> , 2018, 10, 3883-3891.	1.8	27
100	Enhanced Selectivity and Stability of Cu/SiO <sub>2</sub> Catalysts for Dimethyl Oxalate Hydrogenation to Ethylene Glycol by Using Silane Coupling Agents for Surface Modification. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 9414-9422.	1.8	27
101	Insight into the Tunable CuY Catalyst for Diethyl Carbonate by Oxycarbonylation: Preparation Methods and Precursors. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 5838-5845.	1.8	25
102	Hydrogenation of CO <sub>2</sub> to formic acid catalyzed by heterogeneous Ru-PPh <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Fuel Processing Technology</i> , 2018, 178, 98-103.	3.7	25
103	Morphology-Dependent Catalytic Performance of Mordenite in Carbonylation of Dimethyl Ether: Enhanced Activity with High $\alpha/\beta$ Ratio. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 24000-24005.	4.0	25
104	Bimetallic CoCu catalyst derived from in-situ grown Cu-ZIF-67 encapsulated inside KIT-6 for higher alcohol synthesis from syngas. <i>Fuel</i> , 2020, 278, 118292.	3.4	25
105	Enhanced multi-carbon selectivity via CO electroreduction approach. <i>Journal of Catalysis</i> , 2021, 398, 185-191.	3.1	25
106	Effect of Ti on Ag catalyst supported on spherical fibrous silica for partial hydrogenation of dimethyl oxalate. <i>Applied Surface Science</i> , 2019, 466, 592-600.	3.1	24
107	Gas phase decarbonylation of diethyl oxalate to diethyl carbonate over alkali-containing catalyst. <i>Journal of Molecular Catalysis A</i> , 2009, 306, 130-135.	4.8	23
108	Microwave preparation of Ti-containing mesoporous materials. Application as catalysts for transesterification. <i>Chemical Engineering Journal</i> , 2011, 166, 744-750.	6.6	23

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109	Hydrogenation of carbon monoxide over cobalt nanoparticles supported on carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 8365-8372.	3.8	23
110	Reaction mechanism of dimethyl carbonate synthesis on Cu/β <sup>2</sup> zeolites: DFT and AIM investigations. <i>RSC Advances</i> , 2012, 2, 7109.	1.7	23
111	Effect of the ceria-alumina composite support on the Mo-based catalysts' sulfur-resistant activity for the synthetic natural gas process. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2012, 106, 495-506.	0.8	23
112	Isobutane Dehydrogenation over InPtSn/ZnAl <sub>2</sub> O <sub>4</sub> Catalysts: Effect of Indium Promoter. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 11265-11270.	1.8	23
113	Influence of water vapor on cyclic CO <sub>2</sub> capture performance in both carbonation and decarbonation stages for Ca-Al mixed oxide. <i>Chemical Engineering Journal</i> , 2019, 359, 542-551.	6.6	23
114	Supported heteropolyacids catalysts for the selective hydrocracking and isomerization of n-C16 to produce jet fuel. <i>Applied Catalysis A: General</i> , 2020, 598, 117556.	2.2	23
115	Effect of sulfidation temperature on the catalytic behavior of unsupported MoS <sub>2</sub> catalysts for synthetic natural gas production from syngas. <i>Journal of Molecular Catalysis A</i> , 2013, 378, 99-108.	4.8	22
116	Dimethyl carbonate synthesis from methyl nitrite and CO over activated carbon supported Wacker-type catalysts: The surface chemistry of activated carbon. <i>Catalysis Communications</i> , 2015, 72, 43-48.	1.6	22
117	Carbonylation of dimethyl ether over MOR and Cu/H-MOR catalysts: Comparative investigation of deactivation behavior. <i>Applied Catalysis A: General</i> , 2019, 576, 1-10.	2.2	22
118	Electrode Engineering for Electrochemical CO <sub>2</sub> Reduction. <i>Energy &amp; Fuels</i> , 2022, 36, 4234-4249.	2.5	22
119	Effect of composite supports on the methanation activity of Co-Mo-based sulphur-resistant catalysts. <i>Journal of Natural Gas Chemistry</i> , 2012, 21, 767-773.	1.8	21
120	A Fe <sub>5</sub> C <sub>2</sub> nanocatalyst for the preferential synthesis of ethanol via dimethyl oxalate hydrogenation. <i>Chemical Communications</i> , 2017, 53, 5376-5379.	2.2	20
121	Al-Stabilized Double-Shelled Hollow CaO-Based Microspheres with Superior CO <sub>2</sub> Adsorption Performance. <i>Energy &amp; Fuels</i> , 2018, 32, 9692-9700.	2.5	20
122	Partial hydrogenation of dimethyl oxalate on Cu/SiO <sub>2</sub> catalyst modified by sodium silicate. <i>Catalysis Today</i> , 2020, 358, 68-73.	2.2	20
123	CO <sub>2</sub> sorbents derived from capsule-connected Ca-Al hydrotalcite-like via low-saturated coprecipitation. <i>Fuel Processing Technology</i> , 2018, 177, 210-218.	3.7	19
124	A nitrogen-doped PtSn nanocatalyst supported on hollow silica spheres for acetic acid hydrogenation. <i>Chemical Communications</i> , 2018, 54, 8818-8821.	2.2	19
125	Ethanol steam reforming over Ni/NixMg <sub>1-x</sub> O: Inhibition of surface nickel species diffusion into the bulk. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 326-332.	3.8	18
126	Factors influencing the Fischer-Tropsch synthesis performance of iron-based catalyst: Iron oxide dispersion, distribution and reducibility. <i>Fuel Processing Technology</i> , 2015, 139, 25-32.	3.7	18



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127	Effect of surface hydroxyl group of ultra-small silica on the chemical states of copper catalyst for dimethyl oxalate hydrogenation. <i>Catalysis Today</i> , 2020, 350, 127-135.	2.2	18
128	Deactivation Mechanism of Cu/SiO <sub>2</sub> Catalysts in the Synthesis of Ethylene Glycol via Methyl Glycolate Hydrogenation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 12381-12388.	1.8	18
129	Improved Catalytic Performance in Dimethyl Ether Carbonylation over Hierarchical Mordenite by Enhancing Mass Transfer. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 13861-13869.	1.8	18
130	Synergistic effect for selective hydrodeoxygenation of anisole over Cu-ReO <sub>x</sub> /SiO <sub>2</sub> . <i>Catalysis Today</i> , 2021, 365, 223-234.	2.2	18
131	Kinetics Study for Ion-Exchange-Resin Catalyzed Hydrolysis of Methyl Glycolate. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 11653-11658.	1.8	17
132	Mechanistic understanding of hydrogenation of acetaldehyde on Au(111): A DFT investigation. <i>Surface Science</i> , 2012, 606, 1608-1617.	0.8	17
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