

Xinbin

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

196
papers

9,438
citations

43
h-index

92
g-index

207
ext. papers

11,121
ext. citations

8.1
avg, IF

6.42
L-index

#	Paper	IF	Citations
196	Recent advances in catalytic hydrogenation of carbon dioxide. <i>Chemical Society Reviews</i> , 2011 , 40, 3703-385	38.5	2216
195	Ethylene glycol: properties, synthesis, and applications. <i>Chemical Society Reviews</i> , 2012 , 41, 4218-44	58.5	602
194	Synthesis of ethanol via syngas on Cu/SiO ₂ catalysts with balanced Cu ⁰ -Cu ⁺ sites. <i>Journal of the American Chemical Society</i> , 2012 , 134, 13922-5	16.4	474
193	Recent advances in capture of carbon dioxide using alkali-metal-based oxides. <i>Energy and Environmental Science</i> , 2011 , 4, 3805	35.4	276
192	A copper-phyllsilicate core-sheath nanoreactor for carbon-oxygen hydrogenolysis reactions. <i>Nature Communications</i> , 2013 , 4, 2339	17.4	196
191	Recent advances in dialkyl carbonates synthesis and applications. <i>Chemical Society Reviews</i> , 2015 , 44, 3079-116	58.5	194
190	Morphology control of ceria nanocrystals for catalytic conversion of CO ₂ with methanol. <i>Nanoscale</i> , 2013 , 5, 5582-8	7.7	180
189	Chemoselective synthesis of ethanol via hydrogenation of dimethyl oxalate on Cu/SiO ₂ : Enhanced stability with boron dopant. <i>Journal of Catalysis</i> , 2013 , 297, 142-150	7.3	175
188	Propane dehydrogenation over Pt-Cu bimetallic catalysts: the nature of coke deposition and the role of copper. <i>Nanoscale</i> , 2014 , 6, 10000-8	7.7	146
187	Sorption enhanced steam reforming of ethanol on Ni-TaO _x /Al ₂ O ₃ multifunctional catalysts derived from hydrotalcite-like compounds. <i>Energy and Environmental Science</i> , 2012 , 5, 8942	35.4	142
186	Insight into the Balancing Effect of Active Cu Species for Hydrogenation of Carbon-Oxygen Bonds. <i>ACS Catalysis</i> , 2015 , 5, 6200-6208	13.1	141
185	Hydrogen Production via Steam Reforming of Ethanol on Phyllosilicate-Derived Ni/SiO ₂ : Enhanced Metal-Support Interaction and Catalytic Stability. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 161-173	8.3	138
184	Hydrogen Production via Glycerol Steam Reforming over Ni/Al ₂ O ₃ : Influence of Nickel Precursors. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 1052-1062	8.3	135
183	An alternative synthetic approach for efficient catalytic conversion of syngas to ethanol. <i>Accounts of Chemical Research</i> , 2014 , 47, 1483-92	24.3	126
182	Hydrogenation of CO ₂ to formic acid on supported ruthenium catalysts. <i>Catalysis Today</i> , 2011 , 160, 184-190	3.9	112
181	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	6.7	109
180	Thermodynamic analysis of hydrogen production from glycerol autothermal reforming. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 5683-5690	6.7	105

179	Branched TiO ₂ nanoarrays sensitized with CdS quantum dots for highly efficient photoelectrochemical water splitting. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 12026-32	3.6	103
178	Hydrogenation of dimethyl oxalate to ethylene glycol on a Cu/SiO ₂ /cordierite monolithic catalyst: Enhanced internal mass transfer and stability. <i>AIChE Journal</i> , 2012 , 58, 2798-2809	3.6	97
177	Thermodynamic analysis of glycerol dry reforming for hydrogen and synthesis gas production. <i>Fuel</i> , 2009 , 88, 2148-2153	7.1	95
176	Sintering-resistant Ni-based reforming catalysts obtained via the nanoconfinement effect. <i>Chemical Communications</i> , 2013 , 49, 9383-5	5.8	87
175	Thermodynamic Analysis of Glycerin Steam Reforming. <i>Energy & Fuels</i> , 2008 , 22, 4285-4291	4.1	84
174	Effect of cerium oxide doping on the performance of CaO-based sorbents during calcium looping cycles. <i>Environmental Science & Technology</i> , 2015 , 49, 5021-7	10.3	80
173	Effects of MoO ₃ loading and calcination temperature on the activity of the sulphur-resistant methanation catalyst MoO ₃ /Al ₂ O ₃ . <i>Applied Catalysis A: General</i> , 2012 , 431-432, 144-150	5.1	79
172	Steam reforming of ethanol over Ni/ZrO ₂ catalysts: Effect of support on product distribution. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 2940-2949	6.7	77
171	Understanding electronic and optical properties of anatase TiO ₂ photocatalysts co-doped with nitrogen and transition metals. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 9549-61	3.6	76
170	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	21.8	75
169	Efficient tuning of surface copper species of Cu/SiO ₂ catalyst for hydrogenation of dimethyl oxalate to ethylene glycol. <i>Chemical Engineering Journal</i> , 2017 , 313, 759-768	14.7	71
168	Hydrogenation of dimethyl oxalate to ethylene glycol over mesoporous Cu-MCM-41 catalysts. <i>AIChE Journal</i> , 2013 , 59, 2530-2539	3.6	68
167	Enhanced oxygen mobility and reactivity for ethanol steam reforming. <i>AIChE Journal</i> , 2012 , 58, 516-525	3.6	61
166	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 ⁶⁰	7.2	60
165	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	5.5	59
164	WO _x domain size, acid properties and mechanistic aspects of glycerol hydrogenolysis over Pt/WO _x /ZrO ₂ . <i>Applied Catalysis B: Environmental</i> , 2019 , 242, 410-421	21.8	59
163	Selective oxidation of methanol to dimethoxymethane over bifunctional VO(x)/TS-1 catalysts. <i>Chemical Communications</i> , 2011 , 47, 9345-7	5.8	51
162	Balancing Effect between Adsorption and Diffusion on Catalytic Performance Inside Hollow Nanostructured Catalyst. <i>ACS Catalysis</i> , 2019 , 9, 2969-2976	13.1	48

161	Selective oxidation of methanol to dimethoxymethane on V ₂ O ₅ /MoO ₃ /Al ₂ O ₃ catalysts. <i>Applied Catalysis B: Environmental</i> , 2014 , 160-161, 161-172	21.8	48
160	A High-Performance Nanoreactor for Carbon-Oxygen Bond Hydrogenation Reactions Achieved by the Morphology of Nanotube-Assembled Hollow Spheres. <i>ACS Catalysis</i> , 2018 , 8, 1218-1226	13.1	47
159	N-doped Ag/TiO ₂ hollow spheres for highly efficient photocatalysis under visible-light irradiation. <i>RSC Advances</i> , 2013 , 3, 720-724	3.7	46
158	An Effective CuZnBiO ₂ Bimetallic Catalyst Prepared by Hydrolysis Precipitation Method for the Hydrogenation of Methyl Acetate to Ethanol. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 4526-4534	3.9	44
157	Enhanced CO ₂ adsorption capacity and stability using CaO-based adsorbents treated by hydration. <i>AIChE Journal</i> , 2013 , 59, 3586-3593	3.6	44
156	Kinetics Study of Hydrogenation of Dimethyl Oxalate over Cu/SiO ₂ Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 1243-1250	3.9	44
155	A PdFe/Al ₂ O ₃ /cordierite monolithic catalyst for CO coupling to oxalate. <i>Chemical Engineering Science</i> , 2011 , 66, 3513-3522	4.4	43
154	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	6.7	43
153	Modifying the acidity of H-MOR and its catalytic carbonylation of dimethyl ether. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 1530-1537	11.3	43
152	A comparative study of CeO ₂ -Al ₂ O ₃ support prepared with different methods and its application on MoO ₃ /CeO ₂ -Al ₂ O ₃ catalyst for sulfur-resistant methanation. <i>Applied Surface Science</i> , 2013 , 285, 267-277	6.7	42
151	Investigation of sulfur-resistant, highly active unsupported MoS ₂ catalysts for synthetic natural gas production from CO methanation. <i>Fuel Processing Technology</i> , 2013 , 110, 249-257	7.2	40
150	Crystal structures, acid-base properties, and reactivities of CexZr1-xO ₂ catalysts. <i>Catalysis Today</i> , 2009 , 148, 323-328	5.3	39
149	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	14.7	38
148	Modification of Y Zeolite with Alkaline Treatment: Textural Properties and Catalytic Activity for Diethyl Carbonate Synthesis. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 6349-6356	3.9	38
147	Hydrogenation of Dimethyl Oxalate Using Extruded Cu/SiO ₂ Catalysts: Mechanical Strength and Catalytic Performance. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 13935-13943	3.9	36
146	Cu-doped zeolites for catalytic oxidative carbonylation: The role of Brønsted acids. <i>Applied Catalysis A: General</i> , 2012 , 417-418, 236-242	5.1	36
145	Fabrication of multi-shelled hollow Mg-modified CaCO ₃ microspheres and their improved CO ₂ adsorption performance. <i>Chemical Engineering Journal</i> , 2017 , 321, 401-411	14.7	35
144	On the origin of reactivity of steam reforming of ethylene glycol on supported Ni catalysts. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 4066-9	3.6	35

143	Glycerol Hydrogenolysis to 1,3-Propanediol on Tungstate/Zirconia-Supported Platinum: Hydrogen Spillover Facilitated by Pt(1 1 1) Formation. <i>ChemCatChem</i> , 2016 , 8, 3663-3671	5.2	34
142	Porous spherical CaO-based sorbents via PSS-assisted fast precipitation for CO ₂ capture. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18072-7	9.5	33
141	Catalytic Oxidative Carbonylation over Cu ₂ O Nanoclusters Supported on Carbon Materials: The Role of the Carbon Support. <i>ChemCatChem</i> , 2014 , 6, 2671-2679	5.2	33
140	An in situ infrared study of dimethyl carbonate synthesis from carbon dioxide and methanol over well-shaped CeO ₂ . <i>Chinese Chemical Letters</i> , 2017 , 28, 65-69	8.1	32
139	Hydrogenation of Dimethyl Oxalate over Copper-Based Catalysts: Acid-Base Properties and Reaction Paths. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 9699-9707	3.9	32
138	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	3.7	32
137	Monodisperse Nano-Fe ₃ O ₄ on γ-Al ₂ O ₃ Catalysts for Fischer-Tropsch Synthesis to Lower Olefins: Promoter and Size Effects. <i>ChemCatChem</i> , 2017 , 9, 3144-3152	5.2	31
136	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	6.7	31
135	Incorporation of Zr into Calcium Oxide for CO ₂ Capture by a Simple and Facile Sol-Gel Method. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 7873-7879	3.9	31
134	Ni-containing Cu/SiO ₂ catalyst for the chemoselective synthesis of ethanol via hydrogenation of dimethyl oxalate. <i>Catalysis Today</i> , 2016 , 276, 28-35	5.3	31
133	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, 3295-8	3.6	31
132	Microwave synthesis, characterization and transesterification activities of Ti-MCM-41. <i>Microporous and Mesoporous Materials</i> , 2012 , 156, 22-28	5.3	29
131	Effect of sulfidation temperature on the catalytic activity of MoO ₃ /CeO ₂ /Al ₂ O ₃ toward sulfur-resistant methanation. <i>Applied Catalysis A: General</i> , 2013 , 466, 224-232	5.1	29
130	Deactivation Kinetics for the Carbonylation of Dimethyl Ether to Methyl Acetate on H-MOR. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 13618-13627	3.9	28
129	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	8.1	28
128	Surface-functionalized palladium catalysts for electrochemical CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 15884-15890	13	28
127	Effect of cobalt and its adding sequence on the catalytic performance of MoO ₃ /Al ₂ O ₃ toward sulfur-resistant methanation. <i>Journal of Energy Chemistry</i> , 2014 , 23, 35-42	12	28
126	First-row transition metal oxide oxygen evolution electrocatalysts: regulation strategies and mechanistic understandings. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 5417-5432	5.8	28

125	Ultrasound assisted interfacial synthesis of gold nanocones. <i>Chemical Communications</i> , 2013 , 49, 987-9	5.8	27
124	Facile Synthesis of Cu@CeO ₂ and Its Catalytic Behavior for the Hydrogenation of Methyl Acetate to Ethanol. <i>ChemCatChem</i> , 2017 , 9, 2085-2090	5.2	25
123	Effects of extrinsic defects originating from the interfacial reaction of CeO ₂ -x-nickel silicate on catalytic performance in methane dry reforming. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119278	21.8	25
122	A well fabricated PtSn/SiO ₂ catalyst with enhanced synergy between Pt and Sn for acetic acid hydrogenation to ethanol. <i>RSC Advances</i> , 2016 , 6, 51005-51013	3.7	25
121	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	21.8	24
120	Effect of SSIE structure of Cu-exchanged β and γ on the selectivity for synthesis of diethyl carbonate by oxidative carbonylation of ethanol: A comparative investigation. <i>Catalysis Today</i> , 2010 , 149, 202-206	5.3	24
119	Reaction mechanism of dimethyl carbonate synthesis on Cu/zeolites: DFT and AIM investigations. <i>RSC Advances</i> , 2012 , 2, 7109	3.7	23
118	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	13.1	22
117	High CO methanation activity on zirconia-supported molybdenum sulfide catalyst. <i>Journal of Energy Chemistry</i> , 2014 , 23, 625-632	12	22
116	Effect of the ceria/alumina composite support on the Mo-based catalyst's sulfur-resistant activity for the synthetic natural gas process. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2012 , 106, 495-506	1.6	22
115	Selective Oxidation of Methanol to Dimethoxymethane over Mesoporous Al-P-V-O Catalysts. <i>AIChE Journal</i> , 2013 , 59, 2587-2593	3.6	22
114	Tuning porosity of Ti-MCM-41: implication for shape selective catalysis. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2154-60	9.5	22
113	Hydrogenation of carbon monoxide over cobalt nanoparticles supported on carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 8365-8372	6.7	22
112	Microwave preparation of Ti-containing mesoporous materials. Application as catalysts for transesterification. <i>Chemical Engineering Journal</i> , 2011 , 166, 744-750	14.7	21
111	Insight into the Tunable CuY Catalyst for Diethyl Carbonate by Oxycarbonylation: Preparation Methods and Precursors. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 5838-5845	3.9	20
110	Fabrication of Fe ₂ C Embedded in Hollow Carbon Spheres: a High-Performance and Stable Catalyst for Fischer-Tropsch Synthesis. <i>ChemCatChem</i> , 2018 , 10, 3883-3891	5.2	20
109	The Mn-promoted double-shelled CaCO ₃ hollow microspheres as high efficient CO ₂ adsorbents. <i>Chemical Engineering Journal</i> , 2019 , 372, 53-64	14.7	19
108	Effect of sulfidation temperature on the catalytic behavior of unsupported MoS ₂ catalysts for synthetic natural gas production from syngas. <i>Journal of Molecular Catalysis A</i> , 2013 , 378, 99-108		19

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		19
106	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	3.2	18
105	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	5.2	18
104	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		18
103	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	8.3	18
102	Adsorption of CO ₂ on MgAl-CO ₃ LDHs-Derived Sorbents with 3D Nanoflower-like Structure. <i>Energy & Fuels</i> , 2018 , 32, 5313-5320	4.1	17
101	Effect of environment around the active center Cu ⁺ species on the catalytic activity of CuY zeolites in dimethyl carbonate synthesis: A theoretical study. <i>Fuel Processing Technology</i> , 2014 , 128, 310-318	7.2	17
100	Ethanol steam reforming over Ni/NixMg _{1-x} O: Inhibition of surface nickel species diffusion into the bulk. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 326-332	6.7	17
99	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	7.2	16
98	Isobutane Dehydrogenation over InPtSn/ZnAl ₂ O ₄ Catalysts: Effect of Indium Promoter. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 11265-11270	3.9	16
97	The role of the distribution of Ce species on MoO ₃ /CeO ₂ /Al ₂ O ₃ catalysts in sulfur-resistant methanation. <i>Catalysis Communications</i> , 2013 , 35, 32-35	3.2	16
96	Effect of extra-framework silicon on the catalytic activity of Cu/zeolite catalyst for synthesis of diethyl carbonate by oxidative carbonylation of ethanol. <i>Chemical Engineering Journal</i> , 2011 , 172, 526-530	14.7	16
95	Influence of water vapor on cyclic CO ₂ capture performance in both carbonation and decarbonation stages for Ca-Al mixed oxide. <i>Chemical Engineering Journal</i> , 2019 , 359, 542-551	14.7	16
94	A FeC nanocatalyst for the preferential synthesis of ethanol via dimethyl oxalate hydrogenation. <i>Chemical Communications</i> , 2017 , 53, 5376-5379	5.8	15
93	CO ₂ sorbents derived from capsule-connected Ca-Al hydrotalcite-like via low-saturated coprecipitation. <i>Fuel Processing Technology</i> , 2018 , 177, 210-218	7.2	15
92	Hydrogenation of CO ₂ to formic acid catalyzed by heterogeneous Ru-PPh ₃ /Al ₂ O ₃ catalysts. <i>Fuel Processing Technology</i> , 2018 , 178, 98-103	7.2	15
91	Surface structure and reaction property of CuCl ₂ -PdCl ₂ bimetallic catalyst in methanol oxycarbonylation: A DFT approach. <i>Applied Surface Science</i> , 2014 , 292, 117-127	6.7	15
90	Effect of stepwise sulfidation on a MoO ₃ /CeO ₂ /Al ₂ O ₃ catalyst for sulfur-resistant methanation. <i>Applied Catalysis A: General</i> , 2014 , 469, 89-97	5.1	15

89	Ordered mesoporous carbons supported wacker-type catalyst for catalytic oxidative carbonylation. <i>AIChE Journal</i> , 2013 , 59, 3797-3805	3.6	15
88	Mechanistic understanding of hydrogenation of acetaldehyde on Au(111): A DFT investigation. <i>Surface Science</i> , 2012 , 606, 1608-1617	1.8	15
87	Stable Surface-Anchored Cu Nanocubes for CO ₂ Electroreduction to Ethylene. <i>ACS Applied Nano Materials</i> , 2020 , 3, 8328-8334	5.6	15
86	Highly efficient CO ₂ electrolysis within a wide operation window using octahedral tin oxide single crystals. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7848-7856	13	15
85	Al-Stabilized Double-Shelled Hollow CaO-Based Microspheres with Superior CO ₂ Adsorption Performance. <i>Energy & Fuels</i> , 2018 , 32, 9692-9700	4.1	14
84	Catalytic synthesis of diethyl carbonate by oxidative carbonylation of ethanol over PdCl ₂ /Cu-HMS catalyst. <i>Chemical Engineering Journal</i> , 2010 , 163, 93-97	14.7	14
83	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	8.3	14
82	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	6.7	14
81	A nitrogen-doped PtSn nanocatalyst supported on hollow silica spheres for acetic acid hydrogenation. <i>Chemical Communications</i> , 2018 , 54, 8818-8821	5.8	14
80	Effects of MoO ₃ loading and calcination temperature on the catalytic performance of MoO ₃ /CeO ₂ toward sulfur-resistant methanation. <i>Fuel Processing Technology</i> , 2015 , 138, 263-270	7.2	13
79	Nano-Assembled Mordenite Zeolite with Tunable Morphology for Carbonylation of Dimethyl Ether. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6460-6468	5.6	13
78	Enhanced Selectivity and Stability of Cu/SiO ₂ Catalysts for Dimethyl Oxalate Hydrogenation to Ethylene Glycol by Using Silane Coupling Agents for Surface Modification. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 9414-9422	3.9	13
77	Kinetics Study for Ion-Exchange-Resin Catalyzed Hydrolysis of Methyl Glycolate. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 11653-11658	3.9	13
76	Copper-Catalyzed and Proton-Directed Selective Hydroxymethylation of Alkynes with CO. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3984-3988	16.4	13
75	The effects of promoters over PdCl ₂ -CuCl ₂ /HMS catalysts for the synthesis of diethyl carbonate by oxidative carbonylation of ethanol. <i>Chemical Engineering Journal</i> , 2008 , 143, 220-224	14.7	12
74	Electrochemical reduction of acetonitrile to ethylamine. <i>Nature Communications</i> , 2021 , 12, 1949	17.4	12
73	A Facile and Efficient Modification of CNTs for Improved Fischer-Tropsch Performance on Iron Catalyst: Alkali Modification. <i>ChemCatChem</i> , 2016 , 8, 1454-1458	5.2	12
72	Effect of Ca Promoter on the Structure and Catalytic Behavior of FeK/Al ₂ O ₃ Catalyst in Fischer-Tropsch Synthesis. <i>ChemCatChem</i> , 2019 , 11, 3220-3226	5.2	11

71	Morphology-Dependent Catalytic Performance of Mordenite in Carbonylation of Dimethyl Ether: Enhanced Activity with High / Ratio. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24000-24005	9.5	11
70	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	5.1	11
69	Enhancement of Dimethyl Carbonate Synthesis with In Situ Hydrolysis of 2,2-Dimethoxy Propane. <i>Chemical Engineering and Technology</i> , 2016 , 39, 723-729	2	11
68	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	5.1	11
67	Kinetics of sulfur-resistant methanation over supported molybdenum-based catalyst. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 68, 239-245	5.3	11
66	Double-Site Doping of a V Promoter on Ni _x -V-MgAl Catalysts for the DRM Reaction: Simultaneous Effect on CH ₄ and CO ₂ Activation. <i>ACS Catalysis</i> , 2021 , 11, 8749-8765	13.1	11
65	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	7.1	10
64	Hydrogenation of scCO ₂ to Formic Acid Catalyzed by Heterogeneous Ruthenium(III)/Al ₂ O ₃ Catalysts. <i>Chemistry Letters</i> , 2016 , 45, 555-557	1.7	10
63	Carbonation Condition and Modeling Studies of Calcium-Based Sorbent in the Fixed-Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 10457-10464	3.9	10
62	Novel fabrication of copper oxides on AC and its enhanced catalytic performance on oxidative carbonylation of methanol. <i>Chinese Chemical Letters</i> , 2017 , 28, 70-74	8.1	10
61	Partial hydrogenation of dimethyl oxalate on Cu/SiO ₂ catalyst modified by sodium silicate. <i>Catalysis Today</i> , 2020 , 358, 68-73	5.3	10
60	Effects of potassium promoter on the performance of PdCl ₂ / CuCl ₂ / AC catalysts for the synthesis of dimethyl carbonate from CO and methyl nitrite. <i>Chinese Chemical Letters</i> , 2015 , 26, 1359-1363	8.1	9
59	Template-induced Al distribution in MOR and enhanced activity in dimethyl ether carbonylation. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 11374-11381	3.6	9
58	Deactivation Mechanism of Cu/SiO ₂ Catalysts in the Synthesis of Ethylene Glycol via Methyl Glycolate Hydrogenation. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 12381-12388	3.9	9
57	Transesterification of dimethyl oxalate with phenol over TiO ₂ /SiO ₂ : Catalyst screening and reaction optimization. <i>AIChE Journal</i> , 2008 , 54, 3260-3272	3.6	9
56	A DFT study on CO methanation over the activated basal plane from a strained two-dimensional nano-MoS ₂ . <i>Applied Surface Science</i> , 2019 , 479, 360-367	6.7	9
55	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	5.3	9
54	Graphene oxide-ordered mesoporous silica composite supported Co-based catalysts for CO hydrogenation to higher alcohols. <i>Applied Catalysis A: General</i> , 2019 , 583, 117123	5.1	8

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