

# Xinbin

## List of Publications by Year in Descending Order

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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	Active Cu <sub>0</sub> Cu <sub>1</sub> Sites for the Hydrogenation of Carbon-Oxygen Bonds over Cu/CeO <sub>2</sub> Catalysts. <i>ACS Catalysis</i> , <b>2022</b> , 12, 1315-1325	13.1	8
195	Boosting oxygen evolution over inverse spinel Fe-Co-Mn oxide nanocubes through electronic structure engineering. <i>Chemical Engineering Journal</i> , <b>2022</b> , 433, 134446	14.7	3
194	Ni/Zn Dual Sites Switch the CO <sub>2</sub> Hydrogenation Selectivity via Tuning of the d-Band Center. <i>ACS Catalysis</i> , <b>2022</b> , 12, 3346-3356	13.1	6
193	Effects of Intimacy between Acid and Metal Sites on the Isomerization of n-C <sub>16</sub> at the Large/Minor Nanoscale and Atomic Scale. <i>ACS Catalysis</i> , <b>2022</b> , 12, 4092-4102	13.1	0
192	Enhanced Thermocatalytic Stability by Coupling Nickel Step Sites with Nitrogen Heteroatoms for Dry Reforming of Methane. <i>ACS Catalysis</i> , <b>2022</b> , 12, 316-330	13.1	2
191	Computational Insight into the Ligand Effect on the Original Activity of Rh-Catalyzed Formaldehyde Hydroformylation. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 25514-25524	3.8	2
190	Electrochemical reduction of acetonitrile to ethylamine. <i>Nature Communications</i> , <b>2021</b> , 12, 1949	17.4	12
189	Role of Brønsted Acid Sites within 8-MR of Mordenite in the Deactivation Roadmap for Dimethyl Ether Carbonylation. <i>ACS Catalysis</i> , <b>2021</b> , 11, 5647-5657	13.1	7
188	Synergistic effect for selective hydrodeoxygenation of anisole over Cu-ReO <sub>x</sub> /SiO <sub>2</sub> . <i>Catalysis Today</i> , <b>2021</b> , 365, 223-234	5.3	6
187	The hydrotreatment of n-C <sub>16</sub> over Pt/HPMo/SBA-15 and the investigation of diffusion effect using a novel W-P criterion. <i>AIChE Journal</i> , <b>2021</b> , 67, e17330	3.6	1
186	Efficient Synthesis of Mordenite Zeolite for Dimethyl Ether Carbonylation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 8085-8093	3.9	0
185	Enhanced multi-carbon selectivity via CO electroreduction approach. <i>Journal of Catalysis</i> , <b>2021</b> , 398, 185-191	7.3	6
184	Chemodivergent Synthesis of One-Carbon-Extended Alcohols via Copper-Catalyzed Hydroxymethylation of Alkynes with Formic Acid. <i>Organic Letters</i> , <b>2021</b> , 23, 4997-5001	6.2	3
183	Mechanistic insight into formaldehyde hydroformylation catalyzed by rhodium complexes: A theoretical and experimental study. <i>Journal of Catalysis</i> , <b>2021</b> , 399, 41-51	7.3	5
182	Insights into the doping effect of rare-earth metal on ZnAl <sub>2</sub> O <sub>4</sub> supported PtSn catalyzed isobutane dehydrogenation. <i>Catalysis Today</i> , <b>2021</b> , 368, 58-65	5.3	1
181	Tunable Fe <sub>3</sub> O <sub>4</sub> nanoparticles assembled porous microspheres as catalysts for Fischer-Tropsch synthesis to lower olefins. <i>Catalysis Today</i> , <b>2021</b> , 368, 133-139	5.3	2
180	Copper-Catalyzed and Proton-Directed Selective Hydroxymethylation of Alkynes with CO. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 3984-3988	16.4	13

179	Copper-Catalyzed and Proton-Directed Selective Hydroxymethylation of Alkynes with CO <sub>2</sub> . <i>Angewandte Chemie</i> , <b>2021</b> , 133, 4030-4034	3.6	4
178	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> , <b>2021</b> , 9, 7848-7856	13	15
177	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> , <b>2021</b> , 11, 8749-8765	13.1	11
176	Janus AuBe <sub>2.2</sub> C Catalyst for Direct Conversion of Syngas to Higher Alcohols. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 11258-11268	8.3	1
175	Enhanced hydrodeoxygenation of lignin-derived anisole to arenes catalyzed by Mn-doped Cu/Al <sub>2</sub> O <sub>3</sub> . <i>Green Energy and Environment</i> , <b>2021</b> ,	5.7	1
174	Template-induced Al distribution in MOR and enhanced activity in dimethyl ether carbonylation. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 11374-11381	3.6	9
173	Surface-functionalized palladium catalysts for electrochemical CO <sub>2</sub> reduction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 15884-15890	13	28
172	Bimetallic CoCu catalyst derived from in-situ grown Cu-ZIF-67 encapsulated inside KIT-6 for higher alcohol synthesis from syngas. <i>Fuel</i> , <b>2020</b> , 278, 118292	7.1	10
171	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> , <b>2020</b> , 59, 12381-12388	3.9	9
170	Nano-Assembled Mordenite Zeolite with Tunable Morphology for Carbonylation of Dimethyl Ether. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 6460-6468	5.6	13
169	Improved Catalytic Performance in Dimethyl Ether Carbonylation over Hierarchical Mordenite by Enhancing Mass Transfer. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 13861-13869	3.9	6
168	Enhanced production of C <sub>2-4</sub> alkanes from syngas via a metal sulfide-support interaction over NiMoS <sub>2</sub> /Ce <sub>1-x</sub> La <sub>x</sub> O <sub>2</sub> . <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 4340-4351	5.5	
167	Effects of extrinsic defects originating from the interfacial reaction of CeO <sub>2-x</sub> -nickel silicate on catalytic performance in methane dry reforming. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 277, 119278	21.8	25
166	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> , <b>2020</b> , 59, 9414-9422	3.9	13
165	Supported heteropolyacids catalysts for the selective hydrocracking and isomerization of n-C <sub>16</sub> to produce jet fuel. <i>Applied Catalysis A: General</i> , <b>2020</b> , 598, 117556	5.1	11
164	High-Performance CoCu Catalyst Encapsulated in KIT-6 for Higher Alcohol Synthesis from Syngas. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 200-209	8.3	14
163	Partial hydrogenation of dimethyl oxalate on Cu/SiO <sub>2</sub> catalyst modified by sodium silicate. <i>Catalysis Today</i> , <b>2020</b> , 358, 68-73	5.3	10
162	Effects of preparation method and Mo <sub>2</sub> C loading on the Mo <sub>2</sub> C/ZrO <sub>2</sub> catalyst for sulfur-resistant methanation. <i>Molecular Catalysis</i> , <b>2020</b> , 482, 110668	3.3	1

161	Stable Surface-Anchored Cu Nanocubes for CO <sub>2</sub> Electroreduction to Ethylene. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 8328-8334	5.6	15
160	2D surface induced self-assembly of Pd nanocrystals into nanostrings for enhanced formic acid electrooxidation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17128-17135	13	5
159	First-row transition metal oxide oxygen evolution electrocatalysts: regulation strategies and mechanistic understandings. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 5417-5432	5.8	28
158	Promoting dimethyl ether carbonylation over hot-water pretreated H-mordenite. <i>Catalysis Today</i> , <b>2020</b> , 339, 86-92	5.3	8
157	Effect of surface hydroxyl group of ultra-small silica on the chemical states of copper catalyst for dimethyl oxalate hydrogenation. <i>Catalysis Today</i> , <b>2020</b> , 350, 127-135	5.3	9
156	Graphene oxide-ordered mesoporous silica composite supported Co-based catalysts for CO hydrogenation to higher alcohols. <i>Applied Catalysis A: General</i> , <b>2019</b> , 583, 117123	5.1	8
155	Effect of Ca Promoter on the Structure and Catalytic Behavior of FeK/Al <sub>2</sub> O <sub>3</sub> Catalyst in Fischer-Tropsch Synthesis. <i>ChemCatChem</i> , <b>2019</b> , 11, 3220-3226	5.2	11
154	Promoting the activity of Ce-incorporated MOR in dimethyl ether carbonylation through tailoring the distribution of Brønsted acids. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 256, 117777	21.8	24
153	Morphology-Dependent Catalytic Performance of Mordenite in Carbonylation of Dimethyl Ether: Enhanced Activity with High / Ratio. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 24000-24005	9.5	11
152	Elucidating Surface and Bulk Phase Transformation in Fischer-Tropsch Synthesis Catalysts and Their Influences on Catalytic Performance. <i>ACS Catalysis</i> , <b>2019</b> , 9, 7976-7983	13.1	22
151	The synergistic effect between Ni sites and Ni-Fe alloy sites on hydrodeoxygenation of lignin-derived phenols. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 253, 348-358	21.8	75
150	The Mn-promoted double-shelled CaCO <sub>3</sub> hollow microspheres as high efficient CO <sub>2</sub> adsorbents. <i>Chemical Engineering Journal</i> , <b>2019</b> , 372, 53-64	14.7	19
149	Carbonylation of dimethyl ether over MOR and Cu/H-MOR catalysts: Comparative investigation of deactivation behavior. <i>Applied Catalysis A: General</i> , <b>2019</b> , 576, 1-10	5.1	11
148	Preferential synthesis of ethanol from syngas via dimethyl oxalate hydrogenation over an integrated catalyst. <i>Chemical Communications</i> , <b>2019</b> , 55, 5555-5558	5.8	8
147	Balancing Effect between Adsorption and Diffusion on Catalytic Performance Inside Hollow Nanostructured Catalyst. <i>ACS Catalysis</i> , <b>2019</b> , 9, 2969-2976	13.1	48
146	Experimental and Kinetic Study of the Direct Synthesis of Hydrogen Peroxide from Hydrogen and Oxygen over Palladium Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 20573-20584	3.9	1
145	A DFT study on CO methanation over the activated basal plane from a strained two-dimensional nano-MoS <sub>2</sub> . <i>Applied Surface Science</i> , <b>2019</b> , 479, 360-367	6.7	9
144	Examination of Tunable Edge Sites and Catalyst Deactivation in the MoS <sub>2</sub> -Catalyzed Methanation of Syngas. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 21996-22005	3.9	5

143	Promoted effect of cobalt on surface (0 1 0) of MoS <sub>2</sub> for CO methanation from a DFT study. <i>Applied Surface Science</i> , <b>2019</b> , 463, 635-646	6.7	5
142	Influence of Acid Strength on the Reactivity of Dimethyl Ether Carbonylation over H-MOR. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 2027-2034	8.3	18
141	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> , <b>2019</b> , 359, 542-551	14.7	16
140	Insight for the effect of bridging S <sub>2</sub> <sup>2-</sup> in molybdenum sulfide catalysts toward sulfur-resistant methanation. <i>Applied Surface Science</i> , <b>2019</b> , 471, 670-677	6.7	8
139	Mo-Based Catalyst Supported on Binary Ceria-Lanthanum Solid Solution for Sulfur-Resistant Methanation: Effect of La Dopant. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 1803-1811	3.9	2
138	Effect of Ti on Ag catalyst supported on spherical fibrous silica for partial hydrogenation of dimethyl oxalate. <i>Applied Surface Science</i> , <b>2019</b> , 466, 592-600	6.7	14
137	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> , <b>2019</b> , 242, 410-421	21.8	59
136	Sulfur-resistant methanation over MoO <sub>3</sub> /CeO <sub>2</sub> -ZrO <sub>2</sub> catalyst: Influence of Ce-addition methods. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 28, 31-38	12	4
135	A High-Performance Nanoreactor for Carbon-Oxygen Bond Hydrogenation Reactions Achieved by the Morphology of Nanotube-Assembled Hollow Spheres. <i>ACS Catalysis</i> , <b>2018</b> , 8, 1218-1226	13.1	47
134	CO <sub>2</sub> sorbents derived from capsule-connected Ca-Al hydrotalcite-like via low-saturated coprecipitation. <i>Fuel Processing Technology</i> , <b>2018</b> , 177, 210-218	7.2	15
133	An Effective CuZnBiO <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> , <b>2018</b> , 57, 4526-4534	3.9	44
132	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> , <b>2018</b> , 32, 5313-5320	4.1	17
131	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> , <b>2018</b> , 178, 98-103	7.2	15
130	Isobutane Dehydrogenation over InPtSn/ZnAl <sub>2</sub> O <sub>4</sub> Catalysts: Effect of Indium Promoter. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 11265-11270	3.9	16
129	Al-Stabilized Double-Shelled Hollow CaO-Based Microspheres with Superior CO <sub>2</sub> Adsorption Performance. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 9692-9700	4.1	14
128	A method for the quantitative analysis of gaseous mixtures by online mass spectrometry. <i>International Journal of Mass Spectrometry</i> , <b>2018</b> , 434, 23-28	1.9	4
127	A nitrogen-doped PtSn nanocatalyst supported on hollow silica spheres for acetic acid hydrogenation. <i>Chemical Communications</i> , <b>2018</b> , 54, 8818-8821	5.8	14
126	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> , <b>2018</b> , 10, 3883-3891	5.2	20

125	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> , <b>2017</b> , 28, 65-69	8.1	32
124	Facile Synthesis of Cu@CeO <sub>2</sub> and Its Catalytic Behavior for the Hydrogenation of Methyl Acetate to Ethanol. <i>ChemCatChem</i> , <b>2017</b> , 9, 2085-2090	5.2	25
123	A FeC nanocatalyst for the preferential synthesis of ethanol via dimethyl oxalate hydrogenation. <i>Chemical Communications</i> , <b>2017</b> , 53, 5376-5379	5.8	15
122	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> , <b>2017</b> , 321, 401-411	14.7	35
121	Monodisperse Nano-Fe <sub>3</sub> O <sub>4</sub> on $\gamma$ -Al <sub>2</sub> O <sub>3</sub> Catalysts for Fischer-Tropsch Synthesis to Lower Olefins: Promoter and Size Effects. <i>ChemCatChem</i> , <b>2017</b> , 9, 3144-3152	5.2	31
120	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> , <b>2017</b> , 313, 759-768	14.7	71
119	Deactivation Kinetics for the Carbonylation of Dimethyl Ether to Methyl Acetate on H-MOR. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 13618-13627	3.9	28
118	Monodisperse Nano-Fe <sub>3</sub> O <sub>4</sub> on $\gamma$ -Al <sub>2</sub> O <sub>3</sub> Catalysts for Fischer-Tropsch Synthesis to Lower Olefins: Promoter and Size Effects. <i>ChemCatChem</i> , <b>2017</b> , 9, 3088-3089	5.2	1
117	The role of oxygen species in the selective oxidation of methanol to dimethoxymethane over VOx/TS-1 catalyst. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2017</b> , 45, 296-300	6.3	7
116	Novel fabrication of copper oxides on AC and its enhanced catalytic performance on oxidative carbonylation of methanol. <i>Chinese Chemical Letters</i> , <b>2017</b> , 28, 70-74	8.1	10
115	Effect of thermal pretreatment on the surface structure of PtSn/SiO <sub>2</sub> catalyst and its performance in acetic acid hydrogenation. <i>Frontiers of Chemical Science and Engineering</i> , <b>2016</b> , 10, 417-424	4.5	5
114	Hydrogenation of scCO <sub>2</sub> to Formic Acid Catalyzed by Heterogeneous Ruthenium(III)/Al <sub>2</sub> O <sub>3</sub> Catalysts. <i>Chemistry Letters</i> , <b>2016</b> , 45, 555-557	1.7	10
113	Glycerol Hydrogenolysis to 1,3-Propanediol on Tungstate/Zirconia-Supported Platinum: Hydrogen Spillover Facilitated by Pt(1 1 1) Formation. <i>ChemCatChem</i> , <b>2016</b> , 8, 3663-3671	5.2	34
112	Enhancement of Dimethyl Carbonate Synthesis with In Situ Hydrolysis of 2,2-Dimethoxy Propane. <i>Chemical Engineering and Technology</i> , <b>2016</b> , 39, 723-729	2	11
111	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> , <b>2016</b> , 6, 51005-51013	3.7	25
110	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> , <b>2016</b> , 55, 7873-7879	3.9	31
109	Adsorption of CO <sub>2</sub> on Mixed Oxides Derived from CaAl <sub>2</sub> O <sub>4</sub> -Layered Double Hydroxide. <i>Energy &amp; Fuels</i> , <b>2016</b> ,	4.1	1
108	Three dimensional Ag/KCC-1 catalyst with a hierarchical fibrous framework for the hydrogenation of dimethyl oxalate. <i>RSC Advances</i> , <b>2016</b> , 6, 12788-12791	3.7	32



107	Ni-containing Cu/SiO <sub>2</sub> catalyst for the chemoselective synthesis of ethanol via hydrogenation of dimethyl oxalate. <i>Catalysis Today</i> , <b>2016</b> , 276, 28-35	5.3	31
106	A facile controlled in-situ synthesis of monodisperse magnetic carbon nanotubes nanocomposites using water-ethylene glycol mixed solvents. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 657, 138-143	5.7	7
105	A Facile and Efficient Modification of CNTs for Improved Fischer-Tropsch Performance on Iron Catalyst: Alkali Modification. <i>ChemCatChem</i> , <b>2016</b> , 8, 1454-1458	5.2	12
104	Homogeneous Catalytic Kinetics of Methyl Glycolate Hydrolysis. <i>Chemical Engineering and Technology</i> , <b>2016</b> , 39, 918-926	2	4
103	Kinetics of sulfur-resistant methanation over supported molybdenum-based catalyst. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2016</b> , 68, 239-245	5.3	11
102	Modifying the acidity of H-MOR and its catalytic carbonylation of dimethyl ether. <i>Chinese Journal of Catalysis</i> , <b>2016</b> , 37, 1530-1537	11.3	43
101	Enhanced methanation stability of nano-sized MoS <sub>2</sub> catalysts by adding Al <sub>2</sub> O <sub>3</sub> . <i>Frontiers of Chemical Science and Engineering</i> , <b>2015</b> , 9, 33-39	4.5	8
100	Enhanced Fischer-Tropsch synthesis performance of iron-based catalysts supported on nitric acid treated N-doped CNTs. <i>Applied Surface Science</i> , <b>2015</b> , 347, 643-650	6.7	31
99	Effects of MoO <sub>3</sub> loading and calcination temperature on the catalytic performance of MoO <sub>3</sub> /CeO <sub>2</sub> toward sulfur-resistant methanation. <i>Fuel Processing Technology</i> , <b>2015</b> , 138, 263-270	7.2	13
98	Effects of potassium promoter on the performance of PdCl <sub>2</sub> / CuCl <sub>2</sub> / AC catalysts for the synthesis of dimethyl carbonate from CO and methyl nitrite. <i>Chinese Chemical Letters</i> , <b>2015</b> , 26, 1359-1363	8.1	9
97	Enhanced CuCl dispersion by regulating acidity of MCM-41 for catalytic oxycarbonylation of ethanol to diethyl carbonate. <i>Frontiers of Chemical Science and Engineering</i> , <b>2015</b> , 9, 224-231	4.5	3
96	Recent advances in dialkyl carbonates synthesis and applications. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 3079-116	58.5	194
95	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> , <b>2015</b> , 5, 4378-4389	5.5	59
94	Effect of cerium oxide doping on the performance of CaO-based sorbents during calcium looping cycles. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 5021-7	10.3	80
93	Hydrogenation of Dimethyl Oxalate over Copper-Based Catalysts: Acid-Base Properties and Reaction Paths. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 9699-9707	3.9	32
92	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> , <b>2015</b> , 72, 43-48	3.2	18
91	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> , <b>2015</b> , 26, 1096-1100	8.1	28
90	Insight into the Balancing Effect of Active Cu Species for Hydrogenation of Carbon-Oxygen Bonds. <i>ACS Catalysis</i> , <b>2015</b> , 5, 6200-6208	13.1	141

89	Factors influencing the Fischer-Tropsch synthesis performance of iron-based catalyst: Iron oxide dispersion, distribution and reducibility. <i>Fuel Processing Technology</i> , <b>2015</b> , 139, 25-32	7.2	16
88	Influence of Water on the Methanation Performance of Mo-Based Sulfur-Resistant Catalysts with and without Cobalt Additive. <i>Bulletin of the Korean Chemical Society</i> , <b>2015</b> , 36, 74-82	1.2	4
87	Synergy between Palladium and Potassium Species for Efficient Activation of Carbon Monoxide in the Synthesis of Dimethyl Carbonate. <i>ChemCatChem</i> , <b>2015</b> , 7, 2460-2466	5.2	8
86	Effect of H <sub>2</sub> S Concentration on MoO <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> and CoO-MoO <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> Catalysts for Sulfur-Resistant Methanation. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , <b>2015</b> , 31, 545-551	3.8	8
85	Kinetics Study of Hydrogenation of Dimethyl Oxalate over Cu/SiO <sub>2</sub> Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 1243-1250	3.9	44
84	Insight into the Tunable CuY Catalyst for Diethyl Carbonate by Oxycarbonylation: Preparation Methods and Precursors. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 5838-5845	3.9	20
83	Propane dehydrogenation over Pt-Cu bimetallic catalysts: the nature of coke deposition and the role of copper. <i>Nanoscale</i> , <b>2014</b> , 6, 10000-8	7.7	146
82	Porous spherical CaO-based sorbents via PSS-assisted fast precipitation for CO <sub>2</sub> capture. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 18072-7	9.5	33
81	High CO methanation activity on zirconia-supported molybdenum sulfide catalyst. <i>Journal of Energy Chemistry</i> , <b>2014</b> , 23, 625-632	12	22
80	Effect of environment around the active center Cu <sup>+</sup> species on the catalytic activity of CuY zeolites in dimethyl carbonate synthesis: A theoretical study. <i>Fuel Processing Technology</i> , <b>2014</b> , 128, 310-318	7.2	17
79	Carbonation Condition and Modeling Studies of Calcium-Based Sorbent in the Fixed-Bed Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 10457-10464	3.9	10
78	Autocatalytic Kinetic Study of Dimethyl Oxalate Consecutive Hydrolysis. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 4207-4214	3.9	5
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75	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> , <b>2014</b> , 160-161, 161-172	21.8	48
74	DFT investigations of the reaction mechanism of diethyl carbonate synthesis catalyzed by Cu(I)/Br Pd(II)/Zeolites. <i>Applied Surface Science</i> , <b>2014</b> , 308, 237-246	6.7	5
73	Surface structure and reaction property of CuCl <sub>2</sub> -PdCl <sub>2</sub> bimetallic catalyst in methanol oxycarbonylation: A DFT approach. <i>Applied Surface Science</i> , <b>2014</b> , 292, 117-127	6.7	15
72	Effect of stepwise sulfidation on a MoO <sub>3</sub> /CeO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalyst for sulfur-resistant methanation. <i>Applied Catalysis A: General</i> , <b>2014</b> , 469, 89-97	5.1	15



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64	A copper-phyllsilicate core-sheath nanoreactor for carbon-oxygen hydrogenolysis reactions. <i>Nature Communications</i> , <b>2013</b> , 4, 2339	17.4	196
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62	Hydrogen Production via Steam Reforming of Ethanol on Phyllosilicate-Derived Ni/SiO <sub>2</sub> : Enhanced MetalSupport Interaction and Catalytic Stability. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2013</b> , 1, 161-173	8.3	138
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59	Ordered mesoporous carbons supported wacker-type catalyst for catalytic oxidative carbonylation. <i>AIChE Journal</i> , <b>2013</b> , 59, 3797-3805	3.6	15
58	Enhanced CO <sub>2</sub> adsorption capacity and stability using CaO-based adsorbents treated by hydration. <i>AIChE Journal</i> , <b>2013</b> , 59, 3586-3593	3.6	44
57	Morphology control of ceria nanocrystals for catalytic conversion of CO <sub>2</sub> with methanol. <i>Nanoscale</i> , <b>2013</b> , 5, 5582-8	7.7	180
56	Modeling of a Packed Bubble Column for Methyl Nitrite Regeneration Based on Reaction Kinetics and Mass Transfer. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 2814-2823	3.9	8
55	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> , <b>2013</b> , 297, 142-150	7.3	175
54	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> , <b>2013</b> , 285, 267-277	6.7	42

53	Hydrogenation of dimethyl oxalate to ethylene glycol over mesoporous Cu-MCM-41 catalysts. <i>AIChE Journal</i> , <b>2013</b> , 59, 2530-2539	3.6	68
52	N-doped Ag/TiO <sub>2</sub> hollow spheres for highly efficient photocatalysis under visible-light irradiation. <i>RSC Advances</i> , <b>2013</b> , 3, 720-724	3.7	46
51	Modification of Y Zeolite with Alkaline Treatment: Textural Properties and Catalytic Activity for Diethyl Carbonate Synthesis. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 6349-6356	3.9	38
50	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> , <b>2013</b> , 1, 1052-1062	8.3	135
49	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> , <b>2013</b> , 110, 249-257	7.2	40
48	Selective Oxidation of Methanol to Dimethoxymethane over Mesoporous Al-P-V-O Catalysts. <i>AIChE Journal</i> , <b>2013</b> , 59, 2587-2593	3.6	22
47	Branched TiO <sub>2</sub> nanoarrays sensitized with CdS quantum dots for highly efficient photoelectrochemical water splitting. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 12026-32	3.6	103
46	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> , <b>2013</b> , 15, 9549-61	3.6	76
45	Ultrasound assisted interfacial synthesis of gold nanocones. <i>Chemical Communications</i> , <b>2013</b> , 49, 987-9	5.8	27
44	Microwave synthesis, characterization and transesterification activities of Ti-MCM-41. <i>Microporous and Mesoporous Materials</i> , <b>2012</b> , 156, 22-28	5.3	29
43	Enhanced oxygen mobility and reactivity for ethanol steam reforming. <i>AIChE Journal</i> , <b>2012</b> , 58, 516-525	3.6	61
42	Kinetics Study for Ion-Exchange-Resin Catalyzed Hydrolysis of Methyl Glycolate. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 11653-11658	3.9	13
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40	Superior reactivity of skeletal Ni-based catalysts for low-temperature steam reforming to produce CO-free hydrogen. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 3295-8	3.6	31
39	On the origin of reactivity of steam reforming of ethylene glycol on supported Ni catalysts. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 4066-9	3.6	35
38	DFT and DRIFTS studies of the oxidative carbonylation of methanol over [Cu <sub>2</sub> Cl(OH) <sub>3</sub> ]: the influence of Cl. <i>RSC Advances</i> , <b>2012</b> , 2, 8752	3.7	7
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36	Mechanistic understanding of hydrogenation of acetaldehyde on Au(111): A DFT investigation. <i>Surface Science</i> , <b>2012</b> , 606, 1608-1617	1.8	15

35	Effects of MoO <sub>3</sub> loading and calcination temperature on the activity of the sulphur-resistant methanation catalyst MoO <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> . <i>Applied Catalysis A: General</i> , <b>2012</b> , 431-432, 144-150	5.1	79
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33	Synthesis of ethanol via syngas on Cu/SiO <sub>2</sub> catalysts with balanced Cu <sup>0</sup> -Cu <sup>+</sup> sites. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 13922-5	16.4	474
32	Effect of composite supports on the methanation activity of Co-Mo-based sulphur-resistant catalysts. <i>Journal of Natural Gas Chemistry</i> , <b>2012</b> , 21, 767-773		18
31	Sorption enhanced steam reforming of ethanol on Ni-TaO <sub>x</sub> /Al <sub>2</sub> O <sub>3</sub> multifunctional catalysts derived from hydrotalcite-like compounds. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 8942	35.4	142
30	Ethylene glycol: properties, synthesis, and applications. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 4218-44	58.5	602
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28	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> , <b>2012</b> , 106, 495-506	1.6	22
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25	Recent advances in catalytic hydrogenation of carbon dioxide. <i>Chemical Society Reviews</i> , <b>2011</b> , 40, 3703-3805	38.5	2216
24	Recent advances in capture of carbon dioxide using alkali-metal-based oxides. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 3805	35.4	276
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22	Microwave preparation of Ti-containing mesoporous materials. Application as catalysts for transesterification. <i>Chemical Engineering Journal</i> , <b>2011</b> , 166, 744-750	14.7	21
21	Hydrogenation of CO <sub>2</sub> to formic acid on supported ruthenium catalysts. <i>Catalysis Today</i> , <b>2011</b> , 160, 184-190	19.0	112
20	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> , <b>2011</b> , 172, 526-530	14.7	16
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18	Selective oxidation of methanol to dimethoxymethane over bifunctional VO(x)/TS-1 catalysts. <i>Chemical Communications</i> , <b>2011</b> , 47, 9345-7	5.8	51

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16	Hydrogenation of carbon monoxide over cobalt nanoparticles supported on carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 8365-8372	6.7	22
15	Hydrogen production by glycerol steam reforming with/without calcium oxide sorbent: A comparative study of thermodynamic and experimental work. <i>Fuel Processing Technology</i> , <b>2010</b> , 91, 1812-1818 <sup>60</sup>	7.2	60
14	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> , <b>2010</b> , 35, 6699-6708	6.7	109
13	Hydrogen production by glycerol steam reforming with in situ hydrogen separation: A thermodynamic investigation. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 10252-10256	6.7	43
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