

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.

94 papers	1,349 citations	20 h-index	33 g-index
102 ext. papers	1,737 ext. citations	5.4 avg, IF	4.83 L-index

#	Paper	IF	Citations
94	Active CuO $\gamma$ 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
93	Ni $\gamma$ 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
92	Pt-modulated Cu/SiO <sub>2</sub> catalysts for efficient hydrogenation of CO <sub>2</sub> -derived ethylene carbonate to methanol and ethylene glycol. <i>Chinese Journal of Chemical Engineering</i> , <b>2021</b> , 41, 366-366	3.2	2
91	Supplementary Mechanism for Oxycarbonylation of Methanol Over CuY Catalyst: Origin of the Oxygen Atom in Methoxyl and Formation of By-Products. <i>Catalysis Letters</i> , <b>2021</b> , 151, 3334-3342	2.8	
90	CO <sub>2</sub> hydrogenation to C <sub>5</sub> + hydrocarbons over K-promoted Fe/CNT catalyst: Effect of potassium on structure-Activity relationship. <i>Applied Organometallic Chemistry</i> , <b>2021</b> , 35, e6253	3.1	1
89	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
88	Impact of Zr on the Activity of MoO <sub>3</sub> /Ce <sub>1-x</sub> Zr <sub>x</sub> O <sub>2</sub> Catalysts for Sulfur-Resistant Methanation. <i>Topics in Catalysis</i> , <b>2021</b> , 64, 582-590	2.3	0
87	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
86	Highly active Pd-Fe/Al <sub>2</sub> O <sub>3</sub> catalyst with the bayberry tannin as chelating promoter for CO oxidative coupling to diethyl oxalate. <i>Chinese Chemical Letters</i> , <b>2021</b> , 32, 796-800	8.1	2
85	Synergistic effect of catalyst and plasma on CO <sub>2</sub> decomposition in a dielectric barrier discharge plasma reactor. <i>Molecular Catalysis</i> , <b>2021</b> , 499, 111304	3.3	3
84	Insight into the Influence of the Graphite Layer and Cobalt Crystalline on a ZIF-67-Derived Catalyst for Fischer-Tropsch Synthesis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 9885-9896	9.5	3
83	Enhanced gasoline selectivity through Fischer-Tropsch synthesis on a bifunctional catalyst: Effects of active sites proximity and reaction temperature. <i>Chemical Engineering Journal</i> , <b>2021</b> , 416, 129180	14.7	6
82	Janus Au@Fe <sub>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
81	Preparation of high performance Co <sub>3</sub> O <sub>4</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts by doping Al into ZIF-67: Effect of Al sources on Fischer-Tropsch synthesis. <i>Applied Surface Science</i> , <b>2021</b> , 570, 151127	6.7	0
80	Nanoflower-like Cu/SiO <sub>2</sub> Catalyst for Hydrogenation of Ethylene Carbonate to Methanol and Ethylene Glycol: Enriching H <sub>2</sub> Adsorption. <i>ChemCatChem</i> , <b>2020</b> , 12, 3670-3678	5.2	4
79	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
78	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

77	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	
76	Methanation Performance of Unsupported MoP Catalysts Prepared with Phytic Acid under Low H <sub>2</sub> /CO. <i>ChemistrySelect</i> , <b>2020</b> , 5, 7586-7595	1.8	1
75	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
74	Combating poison with poison-reducible Co <sub>2</sub> SiO <sub>4</sub> as a promoter to modify Co-based catalysts in Fischer-Tropsch synthesis. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 267, 118377	21.8	16
73	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
72	CO <sub>2</sub> methanation over nickel-based catalysts prepared by citric acid complexation method. <i>Applied Organometallic Chemistry</i> , <b>2020</b> , 34, e5268	3.1	7
71	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
70	Core-shell [email-protected] Catalyst: Effect of a Confined Carbon Microenvironment on Syngas Conversion. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 14636-14642	3.9	3
69	Effects of titanium silicalite and TiO <sub>2</sub> nanocomposites on supported Co-based catalysts for Fischer-Tropsch synthesis. <i>Applied Organometallic Chemistry</i> , <b>2019</b> , 33, e4640	3.1	6
68	Co-Based Catalysts Supported on Silica and Carbon Materials: Effect of Support Property on Cobalt Species and Fischer-Tropsch Synthesis Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 3459-3467	3.9	17
67	Review of plasma-assisted reactions and potential applications for modification of metal-organic frameworks. <i>Frontiers of Chemical Science and Engineering</i> , <b>2019</b> , 13, 444-457	4.5	7
66	Mechanism study of ammonium nitrate decomposition with chloride impurity using experimental and molecular simulation approach. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 378, 120585	12.8	8
65	Research Progress of Catalysis for Low-Carbon Olefins Synthesis Through Hydrogenation of CO. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2019</b> , 19, 3162-3172	1.3	8
64	Impact of the Oxygen Vacancies on Copper Electronic State and Activity of Cu-Based Catalysts in the Hydrogenation of Methyl Acetate to Ethanol. <i>ChemCatChem</i> , <b>2019</b> , 11, 2607-2614	5.2	8
63	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
62	Optimization of Co-precipitation Condition for Preparing Molybdenum-Based Sulfur-Resistant Methanation Catalysts. <i>Transactions of Tianjin University</i> , <b>2019</b> , 25, 504-516	2.9	
61	Impact of the Oxygen Vacancies on Copper Electronic State and Activity of Cu-Based Catalysts in the Hydrogenation of Methyl Acetate to Ethanol. <i>ChemCatChem</i> , <b>2019</b> , 11, 2562-2562	5.2	
60	Enhanced sulfur-resistant methanation performance over MoO <sub>3</sub> /ZrO <sub>2</sub> catalyst prepared by solution combustion method. <i>Applied Organometallic Chemistry</i> , <b>2019</b> , 33, e5022	3.1	1

59	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
58	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
57	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
56	N-Doped Dual Carbon-Confined 3D Architecture rGO/FeO/AC Nanocomposite for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 13470-13478	9.5	56
55	Ni/ZrO <sub>2</sub> Catalysts Synthesized via Urea Combustion Method for CO <sub>2</sub> Methanation. <i>Transactions of Tianjin University</i> , <b>2018</b> , 24, 471-479	2.9	6
54	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
53	DFT study into the reaction mechanism of CO methanation over pure MoS <sub>2</sub> . <i>International Journal of Quantum Chemistry</i> , <b>2018</b> , 118, e25643	2.1	8
52	Promotion effect of additive Fe on Al <sub>2</sub> O <sub>3</sub> supported Ni catalyst for CO <sub>2</sub> methanation. <i>Applied Organometallic Chemistry</i> , <b>2018</b> , 32, e4328	3.1	12
51	The effect of citric acid on the catalytic activity of nano-sized MoS <sub>2</sub> toward sulfur-resistant CO methanation. <i>Applied Organometallic Chemistry</i> , <b>2018</b> , 32, e4339	3.1	1
50	Effect of calcium formate as an additive on desulfurization in power plants. <i>Journal of Environmental Sciences</i> , <b>2018</b> , 67, 89-95	6.4	8
49	MoP/Al <sub>2</sub> O <sub>3</sub> as a novel catalyst for sulfur-resistant methanation. <i>Applied Organometallic Chemistry</i> , <b>2018</b> , 32, e4515	3.1	8
48	Effect of citric acid on CoO-MoO <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts for sulfur-resistant methanation. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2018</b> , 125, 111-126	1.6	4
47	Kinetics Modeling of Calcium Formate Synthesis by Calcium Hydroxide Carbonylation. <i>Transactions of Tianjin University</i> , <b>2018</b> , 24, 144-151	2.9	
46	Sulfur-Resistant CO Methanation to CH <sub>4</sub> Over MoS <sub>2</sub> /ZrO <sub>2</sub> Catalysts: Support Size Effect On Morphology and Performance of Mo Species. <i>Catalysis Letters</i> , <b>2018</b> , 148, 2585-2595	2.8	10
45	Novel Method for Preparing a Carbon Nanotube-Supported Cobalt Catalyst for Fischer-Tropsch Synthesis: Hydrogen Dielectric-Barrier Discharge Plasma. <i>Transactions of Tianjin University</i> , <b>2017</b> , 23, 20-25	2.9	4
44	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
43	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> , <b>2017</b> , 9, 3144-3152	5.2	31
42	Carbon Nanotubes-MnOx Nanocomposite as Support for Iron-Based Catalysts for the Fischer-Tropsch Synthesis of Liquid Fuels. <i>Energy Technology</i> , <b>2017</b> , 5, 1517-1521	3.5	3

41	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
40	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
39	Effect of Citric Acid on MoO <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> Catalysts for Sulfur-Resistant Methanation. <i>Catalysts</i> , <b>2017</b> , 7, 151	4	14
38	Ni-based catalyst derived from Ni/Al hydrotalcite-like compounds by the urea hydrolysis method for CO methanation. <i>RSC Advances</i> , <b>2016</b> , 6, 677-686	3.7	46
37	Homogeneous Catalytic Kinetics of Methyl Glycolate Hydrolysis. <i>Chemical Engineering and Technology</i> , <b>2016</b> , 39, 918-926	2	4
36	CO <sub>2</sub> methanation and co-methanation of CO and CO <sub>2</sub> over Mn-promoted Ni/Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Frontiers of Chemical Science and Engineering</i> , <b>2016</b> , 10, 273-280	4.5	53
35	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
34	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
33	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
32	The promoter action of CeO <sub>2</sub> for the Ni/Al <sub>2</sub> O <sub>3</sub> -catalyzed methanation of CO <sub>2</sub> . <i>Kinetics and Catalysis</i> , <b>2015</b> , 56, 329-334	1.5	7
31	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
30	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
29	Effect of sulphidation temperature on the performance of NiO-MoO <sub>3</sub> / $\gamma$ -Al <sub>2</sub> O <sub>3</sub> catalysts for sulphur-resistant methanation. <i>RSC Advances</i> , <b>2014</b> , 4, 56174-56182	3.7	4
28	Active phase of highly active Co <sub>3</sub> O <sub>4</sub> catalyst for synthetic natural gas production. <i>RSC Advances</i> , <b>2014</b> , 4, 57185-57191	3.7	6
27	High CO methanation activity on zirconia-supported molybdenum sulfide catalyst. <i>Journal of Energy Chemistry</i> , <b>2014</b> , 23, 625-632	12	22
26	Ni-based catalyst derived from Ni/Mg/Al hydrotalcite-like compounds and its activity in the methanation of carbon monoxide. <i>Kinetics and Catalysis</i> , <b>2014</b> , 55, 217-223	1.5	12
25	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> , <b>2014</b> , 23, 35-42	12	28
24	Precursor effect on catalytic properties of Mo-based catalyst for sulfur-resistant methanation. <i>Korean Journal of Chemical Engineering</i> , <b>2014</b> , 31, 2157-2161	2.8	5

23	The main factors controlling generation of synthetic natural gas by methanation of synthesis gas in the presence of sulfur-resistant Mo-based catalysts. <i>Kinetics and Catalysis</i> , <b>2013</b> , 54, 338-343	1.5	2
22	Effect of sulfidation temperature on CoO/MoO <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> catalyst for sulfur-resistant methanation. <i>Catalysis Science and Technology</i> , <b>2013</b> , 3, 2793	5.5	30
21	Effect of a promoter on the methanation activity of a Mo-based sulfur-resistant catalyst. <i>Frontiers of Chemical Science and Engineering</i> , <b>2013</b> , 7, 88-94	4.5	13
20	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> , <b>2013</b> , 466, 224-232	5.1	29
19	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
18	A zirconium modified Co/SiO <sub>2</sub> Fischer-Tropsch catalyst prepared by dielectric-barrier discharge plasma. <i>Journal of Energy Chemistry</i> , <b>2013</b> , 22, 506-511	12	23
17	Influence of crystalline phase of Li-Al-O oxides on the activity of Wacker-type catalysts in dimethyl carbonate synthesis. <i>Frontiers of Chemical Science and Engineering</i> , <b>2012</b> , 6, 415-422	4.5	15
16	Hydrogenation of Dimethyl Oxalate Using Extruded Cu/SiO <sub>2</sub> Catalysts: Mechanical Strength and Catalytic Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 13935-13943	3.9	36
15	Pd-Fe/Al <sub>2</sub> O <sub>3</sub> /cordierite monolithic catalysts for the synthesis of dimethyl oxalate: effects of calcination and structure. <i>Frontiers of Chemical Science and Engineering</i> , <b>2012</b> , 6, 259-269	4.5	8
14	Effect of alkyl nitrite decomposition on catalytic performance of CO coupling reaction over supported palladium catalyst. <i>Frontiers of Chemical Science and Engineering</i> , <b>2012</b> , 6, 410-414	4.5	7
13	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> , <b>2012</b> , 58, 2798-2809	3.6	97
12	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
11	Real atom economy and its application for evaluation the green degree of a process. <i>Frontiers of Chemical Science and Engineering</i> , <b>2011</b> , 5, 349-354	4.5	5
10	Characterization of Silica-Supported Cobalt Catalysts Prepared by Decomposition of Nitrates Using Dielectric-Barrier Discharge Plasma. <i>Catalysis Letters</i> , <b>2011</b> , 141, 1391-1398	2.8	16
9	Effects of lanthanum addition on Ni-B amorphous alloy catalysts used in anthraquinone hydrogenation. <i>Reaction Kinetics and Catalysis Letters</i> , <b>2003</b> , 80, 233-239		3
8	Catalytic Stability of Ni Catalyst for Partial Oxidation of Methane to Syngas. <i>ACS Symposium Series</i> , <b>2003</b> , 246-259	0.4	
7	EFFECT OF Cu CATALYST PREPARATION ON THE OXIDATIVE CARBONYLATION OF METHANOL TO DIMETHYL CARBONATE. <i>Reaction Kinetics and Catalysis Letters</i> , <b>2002</b> , 76, 179-187		11
6	Effect of oxygen on the activity of a Pd-Fe/a-Al <sub>2</sub> O <sub>3</sub> catalyst for CO coupling to diethyl oxalate. <i>Reaction Kinetics and Catalysis Letters</i> , <b>2002</b> , 76, 303-308		3

5	Effect of Hydrogen on Catalytic Coupling Reaction of Carbon Monoxide to Diethyl Oxalate. <i>Reaction Kinetics and Catalysis Letters</i> , <b>2001</b> , 73, 135-142	9
4	Catalytic Activity and Surface Characterization Study of Pd Supported on Nanocrystalline and Polycrystalline CeO <sub>2</sub> . <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 581, 449	3
3	The modification of titanium in mesoporous silica for Co-based Fischer-Tropsch catalysts. <i>Frontiers of Chemical Science and Engineering</i> , 1	4.5 1
2	Engineered Chemical Utilization of CO <sub>2</sub> to Methanol via Direct and Indirect Hydrogenation Pathways: A Review. <i>Industrial &amp; Engineering Chemistry Research</i> ,	3.9 1
1	A Monodisperse $\gamma$ -(Co <sub>x</sub> Fe <sub>1-x</sub> ) <sub>2</sub> C Bimetallic Carbide Catalyst for Direct Conversion of Syngas to Higher Alcohols. <i>ACS Catalysis</i> , 6016-6028	13.1 2