Jie Zhu

List of Publications by Year
in descending order

23 papers	1,773 citations	516710 16 h-index	677142 22 g-index
23 all docs	23 docs citations	23 times ranked	1752 citing authors

#	Article	IF	Citations
1	A short review of recent advances in CO₂hydrogenation to hydrocarbons over heterogeneous catalysts. RSC Advances, 2018, 8, 7651-7669.	3.6	499
2	CO₂ Hydrogenation to Methanol over In₂O₃-Based Catalysts: From Mechanism to Catalyst Development. ACS Catalysis, 2021, 11, 1406-1423.	11.2	198
3	CO₂ Hydrogenation on Unpromoted and M-Promoted Co/TiO₂ Catalysts (M =) Tj ETQq1 1 0.784314 rgBT / Distribution. ACS Catalysis, 2019, 9, 2739-2751.	11.2	130
4	Promoting effect of Fe on supported Ni catalysts in CO2 methanation by in situ DRIFTS and DFT study. Journal of Catalysis, 2020, 392, 266-277.	6.2	118
5	Variation in the In₂O₃ Crystal Phase Alters Catalytic Performance toward the Reverse Water Gas Shift Reaction. ACS Catalysis, 2020, 10, 3264-3273.	11.2	112
6	Deconvolution of the Particle Size Effect on CO₂ Hydrogenation over Iron-Based Catalysts. ACS Catalysis, 2020, 10, 7424-7433.	11.2	108
7	Utilization of CO2 for aromatics production over ZnO/ZrO2-ZSM-5 tandem catalyst. Journal of CO2 Utilization, 2019, 29, 140-145.	6.8	96
8	Dynamic structural evolution of iron catalysts involving competitive oxidation and carburization during CO ₂ hydrogenation. Science Advances, 2022, 8, eabm3629.	10.3	92
9	A combined experimental and DFT study of H2O effect on In2O3/ZrO2 catalyst for CO2 hydrogenation to methanol. Journal of Catalysis, 2020, 383, 283-296.	6.2	73
10	Direct Transformation of Carbon Dioxide to Value-Added Hydrocarbons by Physical Mixtures of Fe₅C₂ and K-Modified Al₂O₃. Industrial & Engineering Chemistry Research, 2018, 57, 9120-9126.	3.7	56
11	Hydrodeoxygenation of Guaiacol Catalyzed by High-Loading Ni Catalysts Supported on SiO₂â€“TiO₂ Binary Oxides. Industrial & Engineering Chemistry Research, 2019, 58, 1513-1524.	3.7	55
12	Reaction-driven surface reconstruction of ZnAl2O4 boosts the methanol selectivity in CO2 catalytic hydrogenation. Applied Catalysis B: Environmental, 2021, 284, 119700.	20.2	53
13	Boosting light olefin selectivity in CO2 hydrogenation by adding Co to Fe catalysts within close proximity. Catalysis Today, 2021, 371, 142-149.	4.4	43
14	Promoting Propane Dehydrogenation with CO₂ over the PtFe Bimetallic Catalyst by Eliminating the Non-selective Fe(0) Phase. ACS Catalysis, 2022, 12, 6559-6569.	11.2	26
15	Crystallographic dependence of CO2 hydrogenation pathways over HCP-Co and FCC-Co catalysts. Applied Catalysis B: Environmental, 2022, 315, 121529.	20.2	24
16	Hydrodeoxygenation of Guaiacol Catalyzed by ZrO₂â€“CeO₂-Supported Nickel Catalysts with High Loading. Energy & Fuels, 2020, 34, 4685-4692.	5.1	21
17	Structural and Catalytic Properties of Isolated Pt²⁺ Sites in Platinum Phosphide (PtP₂). ACS Catalysis, 2021, 11, 13496-13509.	11.2	15
18	Promoting propane dehydrogenation with CO2 over Ga2O3/SiO2 by eliminating Ga-hydrides. Chinese Journal of Catalysis, 2021, 42, 2225-2233.	14.0	13

#	Article	IF	Citations
19	Unraveling the tunable selectivity on cobalt oxide and metallic cobalt sites for CO2 hydrogenation. Chemical Engineering Journal, 2022, 446, 137217.	12.7	13
20	Uniform PdH0.33 nanodendrites with a high oxygen reduction activity tuned by lattice H. Electrochemistry Communications, 2019, 102, 67-71.	4.7	12
21	Facile Preparation of Methyl Phenols from Ethanol over Lamellar Ce(OH)SO₄Â·xH₂O. ACS Catalysis, 2021, 11, 6162-6174.	11.2	9
22	Boosting the Production of Higher Alcohols from CO₂ and H₂ over Mn- and K-Modified Iron Carbide. Industrial & Engineering Chemistry Research, 2022, 61, 7266-7274.	3.7	4
23	Molecular Mechanisms for Anti-aging of Low-Vacuum Cold Plasma Pretreatment in Caenorhabditis elegans. Applied Biochemistry and Biotechnology, 0, , .	2.9	3