Zhoufeng Bian

List of Publications by Year
in descending order

35 papers	2,857 citations	257450 24 h-index	361022 35 g-index
36 all docs	36 docs citations	36 times ranked	2414 citing authors

#	Article	IF	Citations
1	CO2 methanation on Ni-Ce0.8M0.2O2 (M=Zr, Sn or Ti) catalyst: Suppression of CO via formation of bridging carbonyls on nickel. Catalysis Today, 2023, 424, 113053.	4.4	7
2	CFD modelling and simulation of a zeolite catalytic membrane reactor for low temperature water-gas shift reaction. Chemical Engineering and Processing: Process Intensification, 2022, 178, 108994.	3.6	3
3	Enhanced performance and selectivity of CO2 methanation over phyllosilicate structure derived Ni-Mg/SBA-15 catalysts. Applied Catalysis B: Environmental, 2021, 282, 119564.	20.2	145
4	Ironâ€“oxygen covalency in perovskites to dominate syngas yield in chemical looping partial oxidation. Journal of Materials Chemistry A, 2021, 9, 13008-13018.	10.3	43
5	Mesoporous-Silica-Stabilized Cobalt(II) Oxide Nanoclusters for Propane Dehydrogenation. ACS Applied Nano Materials, 2021, 4, 1112-1125.	5.0	40
6	CO2 hydrogenation to CH4 over hydrothermal prepared ceria-nickel catalysts: Performance and mechanism study. Catalysis Today, 2021, , .	4.4	12
7	Simulation study on the performance of low-temperature water gas shift membrane reactor system. International Journal of Hydrogen Energy, 2021, 46, 15595-15608.	7.1	5
8	CFD simulation on hydrogen-membrane reactor integrating cyclohexane dehydrogenation and CO2 methanation reactions: A conceptual study. Energy Conversion and Management, 2021, 235, 113989.	9.2	15
9	A CFD study on H2-permeable membrane reactor for methane CO2 reforming: Effect of catalyst bed volume. International Journal of Hydrogen Energy, 2021, 46, 38336-38350.	7.1	3
10	Dry reforming of methane on Ni/mesoporous-Al2O3 catalysts: Effect of calcination temperature. International Journal of Hydrogen Energy, 2021, 46, 31041-31053.	7.1	82
11	Morphology dependence of catalytic properties of Ni/CeO2 for CO2 methanation: A kinetic and mechanism study. Catalysis Today, 2020, 347, 31-38.	4.4	128
12	Preparation, characterization and catalytic application of phyllosilicate: A review. Catalysis Today, 2020, 339, 3-23.	4.4	108
13	Experimental study on oxy-fuel combustion behavior of lignite char and carbon transfer mechanism with isotopic tracing method. Chemical Engineering Journal, 2020, 386, 123977.	12.7	17
14	Cu/SiO2 derived from copper phyllosilicate for low-temperature water-gas shift reaction: Role of Cu+ sites. International Journal of Hydrogen Energy, 2020, 45, 27078-27088.	7.1	23
15	A review on perovskite catalysts for reforming of methane to hydrogen production. Renewable and Sustainable Energy Reviews, 2020, 134, 110291.	16.4	114
16	CFD Simulation of a Hydrogen-Permeable Membrane Reactor for CO₂ Reforming of CH₄: The Interplay of the Reaction and Hydrogen Permeation. Energy & Fuels, 2020, 34, 12366-12378.	5.1	29
17	Minimum fluidization velocity of particles with different size distributions at elevated pressures and temperatures. Chemical Engineering Science, 2020, 216, 115555.	3.8	27
18	Chemical Looping Reforming of Glycerol for Continuous H2 Production by Moving-Bed Reactors: Simulation and Experiment. Energy & Fuels, 2020, 34, 1841-1850.	5.1	13

#	Article	IF	Citations
19	Zrâ€“Ce-incorporated Ni/SBA-15 catalyst for high-temperature water gas shift reaction: Methane suppression by incorporated Zr and Ce. Journal of Catalysis, 2020, 387, 47-61.	6.2	44
20	High-performance catalytic perovskite hollow fiber membrane reactor for oxidative propane dehydrogenation. Journal of Membrane Science, 2019, 578, 36-42.	8.2	41
21	Efficient and stable nanoporous functional composited electrocatalyst derived from Zn/Co-bimetallic zeolitic imidazolate frameworks for oxygen reduction reaction in alkaline media. Electrochimica Acta, 2019, 299, 610-617.	5.2	20
22	Silicaâ€“Ceria sandwiched Ni coreâ€“shell catalyst for low temperature dry reforming of biogas: Coke resistance and mechanistic insights. Applied Catalysis B: Environmental, 2018, 230, 220-236.	20.2	370
23	Ni-phyllosilicate structure derived Niâ€“SiO₂â€“MgO catalysts for bi-reforming applications: acidity, basicity and thermal stability. Catalysis Science and Technology, 2018, 8, 1730-1742.	4.1	101
24	Sandwichâ€Like Silica@Ni@Silica Multicoreâ€“Shell Catalyst for the Lowâ€Temperature Dry Reforming of Methane: Confinement Effect Against Carbon Formation. ChemCatChem, 2018, 10, 320-328.	3.7	109
25	Hydrogen generation from chemical looping reforming of glycerol by Ce-doped nickel phyllosilicate nanotube oxygen carriers. Fuel, 2018, 222, 185-192.	6.4	74
26	Chemical looping glycerol reforming for hydrogen production by Ni@ZrO2 nanocomposite oxygen carriers. International Journal of Hydrogen Energy, 2018, 43, 13200-13211.	7.1	40
27	Influence of Calcination Temperature on Activity and Selectivity of Niâ€“CeO2 and Niâ€“Ce0.8Zr0.2O2 Catalysts for CO2 Methanation. Topics in Catalysis, 2018, 61, 1514-1527.	2.8	45
28	Enhanced performance and selectivity of CO2 methanation over g-C3N4 assisted synthesis of Ni CeO2 catalyst: Kinetics and DRIFTS studies. International Journal of Hydrogen Energy, 2018, 43, 15191-15204.	7.1	104
29	Highly carbon-resistant Niâ€“Co/SiO 2 catalysts derived from phyllosilicates for dry reforming of methane. Journal of CO2 Utilization, 2017, 18, 345-352.	6.8	178
30	A Review on Bimetallic Nickelâ€Based Catalysts for CO₂ Reforming of Methane. ChemPhysChem, 2017, 18, 3117-3134.	2.1	395
31	Sulfur resistant La_xCe_{1âˆ’x}Ni_{0.5}Cu_{0.5}O₃ catalysts for an ultra-high temperature water gas shift reaction. Catalysis Science and Technology, 2016, 6, 6569-6580.	4.1	29
32	Highly carbon resistant multicore-shell catalyst derived from Ni-Mg phyllosilicate nanotubes@silica for dry reforming of methane. Applied Catalysis B: Environmental, 2016, 195, 1-8.	20.2	178
33	Design of highly stable and selective core/yolkâ€“shell nanocatalystsâ€"A review. Applied Catalysis B: Environmental, 2016, 188, 324-341.	20.2	249
34	A highly active and stable Niâ€“Mg phyllosilicate nanotubular catalyst for ultrahigh temperature water-gas shift reaction. Chemical Communications, 2015, 51, 16324-16326.	4.1	54
35	A CFD study on the performance of CO2 methanation in water-permeable membrane reactor system. Reaction Chemistry and Engineering, 0, , .	3.7	4