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	A Review on Bimetallic Nickelâ€Based Catalysts for CO₂ Reforming of Methane. ChemPhysChem, 2017, 18, 3117-3134.	2.1	395
2	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
3	Design of highly stable and selective core/yolkâ€"shell nanocatalystsâ€"A review. Applied Catalysis B: Environmental, 2016, 188, 324-341.	20.2	249
4	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
5	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
6	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
7	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
8	A review on perovskite catalysts for reforming of methane to hydrogen production. Renewable and Sustainable Energy Reviews, 2020, 134, 110291.	16.4	114
9	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
10	Preparation, characterization and catalytic application of phyllosilicate: A review. Catalysis Today, 2020, 339, 3-23.	4.4	108
11	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
12	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
13	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
14	Hydrogen generation from chemical looping reforming of glycerol by Ce-doped nickel phyllosilicate nanotube oxygen carriers. Fuel, 2018, 222, 185-192.	6.4	74
15	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
16	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
17	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
18	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

#	Article	IF	Citations
19	High-performance catalytic perovskite hollow fiber membrane reactor for oxidative propane dehydrogenation. Journal of Membrane Science, 2019, 578, 36-42.	8.2	41
20	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
21	Mesoporous-Silica-Stabilized Cobalt(II) Oxide Nanoclusters for Propane Dehydrogenation. ACS Applied Nano Materials, 2021, 4, 1112-1125.	5.0	40
22	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
23	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
24	Minimum fluidization velocity of particles with different size distributions at elevated pressures and temperatures. Chemical Engineering Science, 2020, 216, 115555.	3.8	27
25	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
26	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
27	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
28	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
29	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
30	CO2 hydrogenation to CH4 over hydrothermal prepared ceria-nickel catalysts: Performance and mechanism study. Catalysis Today, 2021, , .	4.4	12
31	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
32	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
33	A CFD study on the performance of CO2 methanation in water-permeable membrane reactor system. Reaction Chemistry and Engineering, 0, , .	3.7	4
34	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
35	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