

Bo Jiang

List of Publications by Year in descending order

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59
papers

3,096
citations

126858

33
h-index

155592

55
g-index

59
all docs

59
docs citations

59
times ranked

2560
citing authors

#	ARTICLE	IF	CITATIONS
1	A flexible image processing technique for measuring bubble parameters based on a neural network. <i>Chemical Engineering Journal</i> , 2022, 429, 132138.	6.6	15
2	A high temperature tubular reactor with hybrid concentrated solar and electric heat supply for steam methane reforming. <i>Chemical Engineering Journal</i> , 2022, 428, 132073.	6.6	29
3	Boosting power density of photocatalytic fuel cells with integrated supercapacitive photoanode. <i>Chemosphere</i> , 2022, 286, 131657.	4.2	2
4	Investigation on multifunctional Au/TiO ₂ @n-octadecane microcapsules towards catalytic photoreforming hydrogen production and photothermal conversion. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 41540-41552.	3.8	10
5	Bioinspired hierarchical evaporator via cell wall engineering for highly efficient and sustainable solar desalination. <i>EcoMat</i> , 2022, 4, .	6.8	24
6	Defect-engineered MXene monolith enabling interfacial photothermal catalysis for high-yield solar hydrogen generation. <i>Cell Reports Physical Science</i> , 2022, 3, 100877.	2.8	8
7	A compact and high-efficiency electrified reactor for hydrogen production by methane steam reforming. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 41421-41431.	3.8	7
8	Oxygen Activity Tuning via FeO ₆ Octahedral Tilting in Perovskite Ferrites for Chemical Looping Dry Reforming of Methane. <i>ACS Catalysis</i> , 2022, 12, 7326-7335.	5.5	27
9	Data-driven approach to predict the flow boiling heat transfer coefficient of liquid hydrogen aviation fuel. <i>Fuel</i> , 2022, 324, 124778.	3.4	14
10	Deciphering high-efficiency solar-thermochemical energy conversion process of heat pipe reactor for steam methane reforming. <i>Fuel</i> , 2022, 326, 124972.	3.4	9
11	Iron-oxo oxygen covalency in perovskites to dominate syngas yield in chemical looping partial oxidation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13008-13018.	5.2	43
12	Simulation study on the performance of low-temperature water gas shift membrane reactor system. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 15595-15608.	3.8	5
13	CFD simulation on hydrogen-membrane reactor integrating cyclohexane dehydrogenation and CO ₂ methanation reactions: A conceptual study. <i>Energy Conversion and Management</i> , 2021, 235, 113989.	4.4	15
14	Highly Salt-Resistant 3D Hydrogel Evaporator for Continuous Solar Desalination via Localized Crystallization. <i>Advanced Functional Materials</i> , 2021, 31, 2104380.	7.8	122
15	A CFD study on H ₂ -permeable membrane reactor for methane CO ₂ reforming: Effect of catalyst bed volume. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 38336-38350.	3.8	3
16	Dry reforming of methane on Ni/mesoporous-Al ₂ O ₃ catalysts: Effect of calcination temperature. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 31041-31053.	3.8	82
17	Programmed design of selectively-functionalized wood aerogel: Affordable and mildew-resistant solar-driven evaporator. <i>Nano Energy</i> , 2021, 87, 106146.	8.2	77
18	Multifunctional Ni-based oxygen carrier for H ₂ production by sorption enhanced chemical looping reforming of ethanol. <i>Fuel Processing Technology</i> , 2021, 221, 106953.	3.7	15

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19	Cu/SiO ₂ derived from copper phyllosilicate for low-temperature water-gas shift reaction: Role of Cu+ sites. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 27078-27088.	3.8	23
20	A review on perovskite catalysts for reforming of methane to hydrogen production. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110291.	8.2	114
21	CFD Simulation of a Hydrogen-Permeable Membrane Reactor for CO ₂ Reforming of CH ₄ : The Interplay of the Reaction and Hydrogen Permeation. <i>Energy & Fuels</i> , 2020, 34, 12366-12378.	2.5	29
22	Flexible and Mildew-Resistant Wood-Derived Aerogel for Stable and Efficient Solar Desalination. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28179-28187.	4.0	114
23	Highly Thermally Insulated and Superhydrophilic Corn Straw for Efficient Solar Vapor Generation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16503-16511.	4.0	108
24	Optimal way to achieve renewable portfolio standard policy goals from the electricity generation, transmission, and trading perspectives in southern China. <i>Energy Policy</i> , 2020, 139, 111319.	4.2	32
25	Chemical Looping Reforming of Glycerol for Continuous H ₂ Production by Moving-Bed Reactors: Simulation and Experiment. <i>Energy & Fuels</i> , 2020, 34, 1841-1850.	2.5	13
26	Hydrogen production from the thermochemical conversion of biomass: issues and challenges. <i>Sustainable Energy and Fuels</i> , 2019, 3, 314-342.	2.5	224
27	Optimization of electricity generation and interprovincial trading strategies in Southern China. <i>Energy</i> , 2019, 174, 696-707.	4.5	29
28	Hydrogen sorption and desorption behaviors of Mg-Ni-Cu doped carbon nanotubes at high temperature. <i>Energy</i> , 2019, 167, 1097-1106.	4.5	36
29	Hydrogen production from ethanol steam reforming on Ni-Ce/MMT catalysts. <i>Energy</i> , 2018, 149, 937-943.	4.5	72
30	Dual-film optofluidic microreactor with enhanced light-harvesting for photocatalytic applications. <i>Chemical Engineering Journal</i> , 2018, 339, 71-77.	6.6	39
31	Hydrogen generation by acetic acid steam reforming over Ni-based catalysts derived from La _{1-x} Ce _x NiO ₃ perovskite. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6795-6803.	3.8	34
32	Hydrogen production by sorption-enhanced chemical looping steam reforming of ethanol in an alternating fixed-bed reactor: Sorbent to catalyst ratio dependencies. <i>Energy Conversion and Management</i> , 2018, 155, 243-252.	4.4	141
33	Alkaline treatment of used carbon-brush anodes for restoring power generation of microbial fuel cells. <i>RSC Advances</i> , 2018, 8, 36754-36760.	1.7	5
34	Hydrogen Production from Chemical Looping Steam Reforming of Ethanol over Perovskite-Type Oxygen Carriers with Bimetallic Co and Ni B-Site Substitution. <i>Catalysts</i> , 2018, 8, 372.	1.6	9
35	Hydrogen generation from chemical looping reforming of glycerol by Ce-doped nickel phyllosilicate nanotube oxygen carriers. <i>Fuel</i> , 2018, 222, 185-192.	3.4	74
36	Sintering resistant Ni nanoparticles exclusively confined within SiO ₂ nanotubes for CH ₄ dry reforming. <i>Catalysis Science and Technology</i> , 2018, 8, 3363-3371.	2.1	71

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37	Chemical looping glycerol reforming for hydrogen production by Ni@ZrO ₂ nanocomposite oxygen carriers. International Journal of Hydrogen Energy, 2018, 43, 13200-13211.	3.8	40
38	Hydrogen Production from Chemical Looping Reforming of Ethanol Using Ni/CeO ₂ Nanorod Oxygen Carrier. Catalysts, 2018, 8, 257.	1.6	23
39	High carbon resistant Ni@Ni phyllosilicate@SiO ₂ core shell hollow sphere catalysts for low temperature CH ₄ dry reforming. Journal of CO ₂ Utilization, 2018, 27, 238-246.	3.3	122
40	A novel oxygen carrier for chemical looping reforming: LaNiO ₃ perovskite supported on montmorillonite. Energy, 2017, 131, 58-66.	4.5	49
41	Sorption enhanced steam reforming of biodiesel by-product glycerol on Ni-CaO-MMT multifunctional catalysts. Chemical Engineering Journal, 2017, 313, 207-216.	6.6	53
42	Hydrogen production and reduction of Ni-based oxygen carriers during chemical looping steam reforming of ethanol in a fixed-bed reactor. International Journal of Hydrogen Energy, 2017, 42, 26217-26230.	3.8	121
43	Hydrogen by chemical looping reforming of ethanol: The effect of promoters on La ₂ MNiO ₄ - (M= Ca, Sr) Tj ETQq1 1 0.784314 rgBT /Qv	1.9	21
44	High purity hydrogen production from sorption enhanced chemical looping glycerol reforming: Application of NiO-based oxygen transfer materials and potassium promoted Li ₂ ZrO ₃ as CO ₂ sorbent. Applied Thermal Engineering, 2017, 124, 454-465.	3.0	36
45	An intelligent oxygen carrier of La [~] Sr NiO [~] for hydrogen production by chemical looping reforming of ethanol. International Journal of Hydrogen Energy, 2017, 42, 17102-17111.	3.8	23
46	Hydrogen production by chemical looping steam reforming of ethanol using NiO/montmorillonite oxygen carriers in a fixed-bed reactor. Chemical Engineering Journal, 2016, 298, 96-106.	6.6	55
47	Effect of support on hydrogen production from chemical looping steam reforming of ethanol over Ni-based oxygen carriers. International Journal of Hydrogen Energy, 2016, 41, 17334-17347.	3.8	62
48	Highly dispersed Ni/montmorillonite catalyst for glycerol steam reforming: Effect of Ni loading and calcination temperature. Applied Thermal Engineering, 2016, 109, 99-108.	3.0	44
49	Hydrogen production from chemical looping steam reforming of glycerol by Ni based Al-MCM-41 oxygen carriers in a fixed-bed reactor. Fuel, 2016, 183, 170-176.	3.4	48
50	Renewable hydrogen production from chemical looping steam reforming of ethanol using xCeNi/SBA-15 oxygen carriers in a fixed-bed reactor. International Journal of Hydrogen Energy, 2016, 41, 12899-12909.	3.8	55
51	Fluidized-bed gasification combined continuous sorption-enhanced steam reforming system to continuous hydrogen production from waste plastic. International Journal of Hydrogen Energy, 2016, 41, 3803-3810.	3.8	65
52	Enhanced hydrogen production by sorption-enhanced steam reforming from glycerol with in-situ CO ₂ removal in a fixed-bed reactor. Fuel, 2016, 166, 340-346.	3.4	60
53	Solid sorbents for in-situ CO ₂ removal during sorption-enhanced steam reforming process: A review. Renewable and Sustainable Energy Reviews, 2016, 53, 536-546.	8.2	171
54	TG/DSC-FTIR and Py-GC investigation on pyrolysis characteristics of petrochemical wastewater sludge. Bioresource Technology, 2015, 192, 1-10.	4.8	117

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55	Pyrolysis of oil-plant wastes in a TGA and a fixed-bed reactor: Thermochemical behaviors, kinetics, and products characterization. <i>Bioresource Technology</i> , 2015, 192, 592-602.	4.8	57
56	Hydrogen production from chemical looping steam reforming of glycerol by Ni-based oxygen carrier in a fixed-bed reactor. <i>Chemical Engineering Journal</i> , 2015, 280, 459-467.	6.6	86
57	Sorption-enhanced steam reforming of glycerol on Ni-based multifunctional catalysts. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 7037-7044.	3.8	71
58	Sorption-Enhanced Steam Reforming of Glycerol for Hydrogen Production over a NiO/NiAl ₂ O ₄ Catalyst and Li ₂ ZrO ₃ -Based Sorbent. <i>Energy & Fuels</i> , 2015, 29, 7408-7418.	2.5	39
59	A CFD study on the performance of CO ₂ methanation in water-permeable membrane reactor system. <i>Reaction Chemistry and Engineering</i> , 0, , .	1.9	4