

Shuai Zhang

List of Publications by Year in descending order

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62
papers

2,070
citations

186265

28
h-index

254184

43
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62
all docs

62
docs citations

62
times ranked

1286
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon Isotopic Evidence for Gas Hydrate Release and Its Significance on Seasonal Wetland Methane Emission in the Muli Permafrost of the Qinghai-Tibet Plateau. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 2437.	2.6	2
2	Earth abundant spinel for hydrogen production in a chemical looping scheme at 550°C. <i>Green Energy and Environment</i> , 2021, 6, 780-789.	8.7	13
3	Efficient hydrogen production through the chemical looping redox cycle of YSZ supported iron oxides. <i>Green Energy and Environment</i> , 2021, 6, 875-883.	8.7	15
4	Spatially controlled oxygen storage materials improved the syngas selectivity on chemical looping methane conversion. <i>Applied Catalysis B: Environmental</i> , 2021, 281, 119472.	20.2	34
5	Phase segregation mechanism of NiFe_2O_4 oxygen carrier in chemical looping process. <i>International Journal of Energy Research</i> , 2021, 45, 3305-3314.	4.5	22
6	A Review of the Resource and Test Production of Natural Gas Hydrates in China. <i>Energy & Fuels</i> , 2021, 35, 9137-9150.	5.1	42
7	Simultaneous removal of Zn^{2+} and p-nitrophenol from wastewater using nanocomposites of montmorillonite with alkyl-ammonium and complexant. <i>Environmental Research</i> , 2021, 201, 111496.	7.5	16
8	Evaluation of pyrite cinders from sulfuric acid production as oxygen carrier for chemical looping combustion. <i>Energy</i> , 2021, 233, 121079.	8.8	10
9	Effect of supports on the redox performance of pyrite cinder in chemical looping combustion. <i>Chinese Journal of Chemical Engineering</i> , 2021, 37, 168-174.	3.5	6
10	Efficient CO_2 to CO conversion at moderate temperatures enabled by the cobalt and copper co-doped ferrite oxygen carrier. <i>Journal of Energy Chemistry</i> , 2020, 46, 123-132.	12.9	44
11	Evaluating tar production via the release of volatile matters for H_2 -rich syngas production. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 3712-3720.	7.1	12
12	A high-performance ternary ferrite-spinel material for hydrogen storage via chemical looping redox cycles. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 2034-2043.	7.1	9
13	A mixed spinel oxygen carrier with both high reduction degree and redox stability for chemical looping H_2 production. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 1444-1452.	7.1	14
14	Activation Mechanism of $\text{Fe}_2\text{O}_3\text{-Al}_2\text{O}_3$ Oxygen Carrier in Chemical Looping Combustion. <i>Energy & Fuels</i> , 2020, 34, 16350-16355.	5.1	27
15	Tuning the Support Properties toward Higher CO_2 Conversion during a Chemical Looping Scheme. <i>Environmental Science & Technology</i> , 2020, 54, 12467-12475.	10.0	30
16	Optimization-based approach for CO_2 utilization in carbon capture, utilization and storage supply chain. <i>Computers and Chemical Engineering</i> , 2020, 139, 106885.	3.8	39
17	Multi-objective optimization for the deployment of carbon capture utilization and storage supply chain considering economic and environmental performance. <i>Journal of Cleaner Production</i> , 2020, 270, 122481.	9.3	44
18	Iron oxides with gadolinium-doped cerium oxides as active supports for chemical looping hydrogen production. <i>Chemical Engineering Journal</i> , 2020, 396, 125153.	12.7	33

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19	Mn-Fe-Al-O mixed spinel oxides as oxygen carrier for chemical looping hydrogen production with CO ₂ capture. <i>Fuel</i> , 2020, 274, 117854.	6.4	27
20	Spinel-Structured Ternary Ferrites as Effective Agents for Chemical Looping CO ₂ Splitting. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 6924-6930.	3.7	24
21	Chemical looping hydrogen storage and production: use of binary ferrite-spinel as oxygen carrier materials. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1665-1673.	4.9	9
22	Copper and cobalt co-doped ferrites as effective agents for chemical looping CO ₂ splitting. <i>Chemical Engineering Journal</i> , 2020, 387, 124150.	12.7	38
23	Inhibited Phase Segregation to Enhance the Redox Performance of NiFe ₂ O ₄ via CeO ₂ Modification in the Chemical Looping Process. <i>Energy & Fuels</i> , 2020, 34, 6178-6185.	5.1	26
24	Redox performance of pyrite cinder in methane chemical looping combustion. <i>Chemical Engineering Journal</i> , 2020, 395, 125097.	12.7	33
25	Cu-Fe-Al-O mixed spinel oxides as oxygen carrier for chemical looping hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 11908-11915.	7.1	16
26	Effect of calcination condition on the performance of iron ore in chemical-looping combustion. <i>Fuel Processing Technology</i> , 2020, 203, 106395.	7.2	10
27	Synergistic effects of binary oxygen carriers during chemical looping hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 21290-21302.	7.1	31
28	Multi-function of oxygen carrier for in-situ tar removal in chemical looping gasification: Naphthalene as a model compound. <i>Applied Energy</i> , 2019, 253, 113502.	10.1	34
29	A high-performance oxygen carrier with high oxygen transport capacity and redox stability for chemical looping combustion. <i>Energy Conversion and Management</i> , 2019, 202, 112209.	9.2	25
30	Ternary Mixed Spinel Oxides as Oxygen Carriers for Chemical Looping Hydrogen Production Operating at 550 °C. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44223-44232.	8.0	21
31	The use of ferrites as highly active oxygen storage materials for chemical looping hydrogen production under intermediate temperature. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 28638-28648.	7.1	11
32	Risk management optimization framework for the optimal deployment of carbon capture and storage system under uncertainty. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 113, 109280.	16.4	27
33	Effect of Supports on the Redox Performance of NiFe ₂ O ₄ in a Chemical Looping Process. <i>Energy Technology</i> , 2019, 7, 1900374.	3.8	19
34	Enhanced hydrogen production performance at intermediate temperatures through the synergistic effects of binary oxygen carriers. <i>Applied Energy</i> , 2019, 252, 113454.	10.1	37
35	Insights into the relationship between microstructural evolution and deactivation of Al ₂ O ₃ supported Fe ₂ O ₃ oxygen carrier in chemical looping combustion. <i>Energy Conversion and Management</i> , 2019, 188, 429-437.	9.2	66
36	Comparison of pyrite cinder with synthetic and natural iron-based oxygen carriers in coal-fueled chemical looping combustion. <i>Energy Conversion and Management</i> , 2018, 8, 106-119.		16

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37	Synthesis and Characterization of a Dual-Cation Organomontmorillonite Nanocomposite. <i>Materials</i> , 2018, 11, 2320.	2.9	4
38	An optimization model for carbon capture utilization and storage supply chain: A case study in Northeastern China. <i>Applied Energy</i> , 2018, 231, 194-206.	10.1	80
39	Test Operation of a Separated-Gasification Chemical Looping Combustion System for Coal. <i>Energy & Fuels</i> , 2018, 32, 11411-11420.	5.1	20
40	Enhanced hydrogen production performance through controllable redox exsolution within $\text{CoFeAlO}_{x\langle sub \rangle 3 \langle /sub \rangle}$ spinel oxygen carrier materials. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11306-11316.	10.3	140
41	Performance of Oxygen Carriers with Different Porosities in Chemical Looping Water-Splitting. <i>Energy Technology</i> , 2018, 6, 1723-1731.	3.8	18
42	Identifying iron-based oxygen carrier reduction during biomass chemical looping gasification on a thermogravimetric fixed-bed reactor. <i>Applied Energy</i> , 2018, 229, 404-412.	10.1	59
43	Bio-Oil Heavy Fraction as a Feedstock for Hydrogen Generation via Chemical Looping Process: Reactor Design and Hydrodynamic Analysis. <i>International Journal of Chemical Reactor Engineering</i> , 2017, 15, .	1.1	2
44	Phenol and/or Zn^{2+} adsorption by single- or dual-cation organomontmorillonites. <i>Applied Clay Science</i> , 2017, 140, 1-9.	5.2	33
45	Modification of traditionally impregnated $\text{Fe}_{2\langle sub \rangle 2 \langle /sub \rangle}\text{O}_{3\langle sub \rangle 3 \langle /sub \rangle}/\text{Al}_{2\langle sub \rangle 2 \langle /sub \rangle}\text{O}_{3\langle sub \rangle 3 \langle /sub \rangle}$ oxygen carriers by ultrasonic method and their performance in chemical looping combustion. , 2017, 7, 65-77.		3
46	Performance of iron ore oxygen carrier modified by biomass ashes in coal-fueled chemical looping combustion. , 2016, 6, 695-709.		10
47	Nanostructured $\text{Fe}_2\text{O}_3/\text{MgAl}_2\text{O}_4$ material prepared by colloidal crystal templated sol-gel method for chemical looping with hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 22711-22721.	7.1	34
48	Use of Pyrite Cinder as an Iron-Based Oxygen Carrier in Coal-Fueled Chemical Looping Combustion. <i>Energy & Fuels</i> , 2015, 29, 2645-2655.	5.1	35
49	Performance of $\text{CeO}_{2\langle sub \rangle 2 \langle /sub \rangle}$ -Modified Iron-Based Oxygen Carrier in the Chemical Looping Hydrogen Generation Process. <i>Energy & Fuels</i> , 2015, 29, 7612-7621.	5.1	65
50	Bio-oil heavy fraction for hydrogen production by iron-based oxygen carrier redox cycle. <i>Fuel Processing Technology</i> , 2015, 139, 1-7.	7.2	44
51	Geochemical dynamics of the gas hydrate system in the Qilian Mountain Permafrost, Qinghai, Northwest China. <i>Marine and Petroleum Geology</i> , 2015, 59, 72-90.	3.3	19
52	Use of heavy fraction of bio-oil as fuel for hydrogen production in iron-based chemical looping process. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 19955-19969.	7.1	59
53	Effect of permafrost properties on gas hydrate petroleum system in the Qilian Mountains, Qinghai, Northwest China. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 2711-2720.	3.5	14
54	Gas hydrate stability zone migration occurred in the Qilian mountain permafrost, Qinghai, Northwest China: Evidences from pyrite morphology and pyrite sulfur isotope. <i>Cold Regions Science and Technology</i> , 2014, 98, 8-17.	3.5	33

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55	Comparative study between fluidized-bed and fixed-bed operation modes in pressurized chemical looping combustion of coal. <i>Applied Energy</i> , 2014, 130, 181-189.	10.1	44
56	Performance of Fe ₂ O ₃ /CaSO ₄ composite oxygen carrier on inhibition of sulfur release in calcium-based chemical looping combustion. <i>International Journal of Greenhouse Gas Control</i> , 2013, 17, 1-12.	4.6	44
57	Pressurized chemical-looping combustion of coal using an iron ore as oxygen carrier in a pilot-scale unit. <i>International Journal of Greenhouse Gas Control</i> , 2012, 10, 363-373.	4.6	130
58	Chemical Looping Combustion (CLC) of two Victorian brown coals – Part 2: Assessment of interaction between CuO and minerals inherent in coals during multi cycle experiments. <i>Fuel</i> , 2012, 96, 335-347.	6.4	22
59	Use of Fe ₂ O ₃ -Containing Industrial Wastes As the Oxygen Carrier for Chemical-Looping Combustion of Coal: Effects of Pressure and Cycles. <i>Energy & Fuels</i> , 2011, 25, 4357-4366.	5.1	54
60	Anonymous authentication-oriented vehicular privacy protection technology research in VANET. , 2011, , .		8
61	Pressurized chemical-looping combustion of coal with an iron ore-based oxygen carrier. <i>Combustion and Flame</i> , 2010, 157, 1140-1153.	5.2	141
62	Pressurized Chemical-Looping Combustion of Chinese Bituminous Coal: Cyclic Performance and Characterization of Iron Ore-Based Oxygen Carrier. <i>Energy & Fuels</i> , 2010, 24, 1449-1463.	5.1	73