

Tao Song

List of Publications by Year in descending order

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papers

2,094
citations

257357

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docs citations

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times ranked

1202
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical Looping Combustion of Biomass/Coal with Natural Iron Ore as Oxygen Carrier in a Continuous Reactor. <i>Energy & Fuels</i> , 2011, 25, 446-455.	2.5	172
2	Biomass gasification using chemical looping in a 25 kW th reactor with natural hematite as oxygen carrier. <i>Chemical Engineering Journal</i> , 2016, 286, 174-183.	6.6	166
3	Review of reactor for chemical looping combustion of solid fuels. <i>International Journal of Greenhouse Gas Control</i> , 2018, 76, 92-110.	2.3	141
4	Experimental investigation on hydrogen production from biomass gasification in interconnected fluidized beds. <i>Biomass and Bioenergy</i> , 2012, 36, 258-267.	2.9	119
5	Evaluation of hematite oxygen carrier in chemical-looping combustion of coal. <i>Fuel</i> , 2013, 104, 244-252.	3.4	111
6	Iron ore as oxygen carrier improved with potassium for chemical looping combustion of anthracite coal. <i>Combustion and Flame</i> , 2012, 159, 2480-2490.	2.8	100
7	Combustion performance and sodium transformation of high-sodium ZhunDong coal during chemical looping combustion with hematite as oxygen carrier. <i>Fuel</i> , 2015, 159, 107-117.	3.4	80
8	Experimental investigation on biomass gasification using chemical looping in a batch reactor and a continuous dual reactor. <i>Chemical Engineering Journal</i> , 2016, 286, 689-700.	6.6	76
9	Hydrogen-rich syngas production with tar elimination via biomass chemical looping gasification (BCLG) using BaFe ₂ O ₄ /Al ₂ O ₃ as oxygen carrier. <i>Chemical Engineering Journal</i> , 2020, 387, 124107.	6.6	74
10	Nitrogen transfer of fuel-N in chemical looping combustion. <i>Combustion and Flame</i> , 2012, 159, 1286-1295.	2.8	72
11	The investigations of hematite-CuO oxygen carrier in chemical looping combustion. <i>Chemical Engineering Journal</i> , 2017, 317, 132-142.	6.6	63
12	Characterization of an Australia hematite oxygen carrier in chemical looping combustion with coal. <i>International Journal of Greenhouse Gas Control</i> , 2012, 11, 326-336.	2.3	58
13	System simulation and experimental verification: Biomass-based integrated gasification combined cycle (BIGCC) coupling with chemical looping gasification (CLG) for power generation. <i>Fuel</i> , 2019, 241, 118-128.	3.4	57
14	Effect of micropore and mesopore structure on CO ₂ adsorption by activated carbons from biomass. <i>New Carbon Materials</i> , 2015, 30, 156-166.	2.9	48
15	Syngas, tar and char behavior in chemical looping gasification of sawdust pellet in fluidized bed. <i>Fuel</i> , 2020, 270, 117464.	3.4	45
16	Evaluation of the Effect of Sulfur on Iron-Ore Oxygen Carrier in Chemical-Looping Combustion. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 1795-1805.	1.8	36
17	Coal gasification with in situ CO ₂ capture by the synthetic CaO sorbent in a 1ÂkWth dual fluidised-bed reactor. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 14195-14204.	3.8	35
18	Production of 5-Hydroxymethylfurfural from Chitin Biomass: A Review. <i>Molecules</i> , 2020, 25, 541.	1.7	35

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19	Combustion performance and sodium absorption of ZhunDong coal in a CLC process with hematite oxygen carrier. Applied Thermal Engineering, 2016, 94, 40-49.	3.0	34
20	Mechanism Investigation of Enhancing Reaction Performance with $\text{CaSO}_4/\text{Fe}_2\text{O}_3$ Oxygen Carrier in Chemical-Looping Combustion of Coal. Industrial & Engineering Chemistry Research, 2013, 52, 4059-4071.	1.8	33
21	Green production of ammonia from nitrogen-rich biomass pyrolysis: Evolution of fuel-N under H ₂ -rich atmosphere. Fuel Processing Technology, 2022, 227, 107126.	3.7	31
22	Sewage sludge combustion in a CLC process using nickel-based oxygen carrier. Chemical Engineering Journal, 2015, 260, 631-641.	6.6	30
23	Evaluation of red mud as oxygen carrier for chemical looping combustion of methane and biomass in fluidized bed. Fuel Processing Technology, 2021, 222, 106964.	3.7	30
24	Enhanced Reaction Performance with Hematite/ $\text{Ca}_2\text{Al}_2\text{SiO}_7$ Oxygen Carrier in Chemical Looping Combustion of Coal. Industrial & Engineering Chemistry Research, 2013, 52, 9573-9585.	1.8	25
25	Chemical Looping Gasification of a Biomass Pellet with a Manganese Ore as an Oxygen Carrier in the Fluidized Bed. Energy & Fuels, 2018, 32, 11674-11682.	2.5	25
26	Fuel Nitrogen Conversion in Chemical Looping with Oxygen Uncoupling of Coal with a CuO-Based Oxygen Carrier. Energy & Fuels, 2015, 29, 3820-3832.	2.5	23
27	Chemical looping combustion of high sodium lignite in the fluidized bed: Combustion performance and sodium transfer. International Journal of Greenhouse Gas Control, 2018, 70, 22-31.	2.3	23
28	Clusters identification and meso-scale structures in a circulating fluidized bed based on image processing. Advanced Powder Technology, 2019, 30, 3010-3020.	2.0	23
29	Effects of torrefaction conditions on the hygroscopicity of biochars. Journal of the Energy Institute, 2021, 96, 260-268.	2.7	23
30	Synergistic effects of lanthanum ferrite perovskite and hydrogen to promote ammonia production during microalgae catalytic pyrolysis process. Bioresource Technology, 2021, 340, 125641.	4.8	22
31	Synergistic Effects of the Zr and Sm Co-doped $\text{Fe}_2\text{O}_3/\text{CeO}_2$ Oxygen Carrier for Chemical Looping Hydrogen Generation. Energy & Fuels, 2020, 34, 10256-10267.	2.5	21
32	Enhanced performance of hematite oxygen carrier by CeO ₂ for chemical looping hydrogen generation. International Journal of Hydrogen Energy, 2022, 47, 5130-5141.	3.8	21
33	Chemical looping catalytic steam gasification (CLCSG) of algae over La ₁ -Ba FeO ₃ perovskites for syngas production. Biomass and Bioenergy, 2021, 151, 106154.	2.9	20
34	Combustion Performance of Sewage Sludge in a Novel CLC System with a Two-Stage Fuel Reactor. Energy & Fuels, 2017, 31, 12570-12581.	2.5	18
35	CO ₂ -gasification kinetics of biomass char with a red mud oxygen carrier for chemical looping combustion. Fuel, 2022, 313, 123011.	3.4	18
36	Characteristics of Zhundong Coal Ash in Hematite-Based Chemical Looping Combustion. Energy & Fuels, 2020, 34, 8150-8166.	2.5	17

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37	Ni-enhanced red mud oxygen carrier for chemical looping steam methane reforming. <i>Fuel Processing Technology</i> , 2022, 230, 107204.	3.7	17
38	Performance of Hematite/Ca ₂ Al ₂ SiO ₇ Oxygen Carrier in Chemical Looping Combustion of Coal. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 7350-7361.	1.8	15
39	Performance in Coupled Fluidized Beds for Chemical Looping Combustion of CO and Biomass Using Hematite as an Oxygen Carrier. <i>Energy & Fuels</i> , 2018, 32, 12721-12729.	2.5	15
40	Characterization of hematite oxygen carrier in chemical-looping combustion at high reduction temperature. <i>Journal of Fuel Chemistry and Technology</i> , 2011, 39, 567-574.	0.9	14
41	Evaluation of Different Red Muds as Oxygen Carriers in a Fluidized Bed Thermogravimetric Analyzer. <i>Energy & Fuels</i> , 2021, 35, 14805-14815.	2.5	13
42	Chemical looping combustion of sulfur paste to SO ₂ by phosphogypsum oxygen carrier for sulfur acid production. <i>Fuel</i> , 2022, 323, 124386.	3.4	13
43	Experimental investigation of hematite oxygen carrier decorated with NiO for chemical-looping combustion of coal. <i>Journal of Fuel Chemistry and Technology</i> , 2012, 40, 267-272.	0.9	12
44	Effect of Sodium Removal on Chemical Looping Combustion of High-Sodium Coal with Hematite as an Oxygen Carrier. <i>Energy & Fuels</i> , 2019, 33, 2153-2165.	2.5	10
45	Petroleum coke conversion behavior in catalyst-assisted chemical looping combustion. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 2417-2424.	1.7	8
46	Study on the Migration Characteristics of Sodium and Chlorine in Chemical Looping Process of ZhunDong Coal with Hematite Oxygen Carrier. <i>Energy & Fuels</i> , 2019, 33, 1489-1500.	2.5	7
47	In-situ catalytic effect of potassium on petroleum coke gasification with a Mn ore-based oxygen carrier. <i>Fuel</i> , 2021, 306, 121763.	3.4	7
48	Hydrogen Production from a Victorian Brown Coal with in Situ CO ₂ Capture in a 1 kW _{th} Dual Fluidized-Bed Gasification Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 13046-13053.	1.8	6
49	Mechanical strength evolution of biomass pellet during chemical looping gasification in fluidized bed. <i>Fuel Processing Technology</i> , 2021, 221, 106951.	3.7	6
50	Biomass ash chemistry in chemical looping: Interaction between organic-K and Fe ₂ O ₃ /Al ₂ O ₃ oxygen carrier using cellulose-CH ₃ COOK as model compound. <i>Biomass and Bioenergy</i> , 2022, 163, 106533.	2.9	6
51	Characterizing devolatilized wood pellets for fluidized bed applications. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	5
52	Fluidization of micro-interconnected fluidized beds for chemical looping. <i>Particuology</i> , 2021, 54, 136-145.	2.0	3
53	Effect of operation conditions on fuel characteristics of hydrochar via hydrothermal carbonization of agroforestry biomass. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	3
54	MP-PIC Simulation of Biomass Steam Gasification Using Ilmenite as an Oxygen Carrier. <i>Atmosphere</i> , 2022, 13, 1009.	1.0	3

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55	Study of cluster characteristics in a circulating fluidized bed riser. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2020, 42, 1553-1564.	1.2	2
56	Evolution of Sm ²⁺ -Doped Fe ₂ O ₃ /CeO ₂ Oxygen Carriers in Chemical Looping Hydrogen Generation. Energy Technology, 2021, 9, 2100535.	1.8	2
57	Fluidization Dynamics of a New Two-Stage Fuel Reactor for Chemical Looping Gasification. Energy & Fuels, 2022, 36, 4807-4817.	2.5	2
58	Chemical Looping Catalytic Steam Gasification (CLCSG) of Algae Over La _{1-x} Ba _x FeO ₃ Perovskites for Syngas Production. SSRN Electronic Journal, 0, , .	0.4	0