

# Tao Song

## List of Publications by Year in descending order

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58  
papers

2,094  
citations

257357

24  
h-index

233338

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58  
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58  
docs citations

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times ranked

1202  
citing authors

#	ARTICLE	IF	CITATIONS
1	Green production of ammonia from nitrogen-rich biomass pyrolysis: Evolution of fuel-N under H <sub>2</sub> -rich atmosphere. <i>Fuel Processing Technology</i> , 2022, 227, 107126.	3.7	31
2	CO <sub>2</sub> -gasification kinetics of biomass char with a red mud oxygen carrier for chemical looping combustion. <i>Fuel</i> , 2022, 313, 123011.	3.4	18
3	Enhanced performance of hematite oxygen carrier by CeO <sub>2</sub> for chemical looping hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 5130-5141.	3.8	21
4	Ni-enhanced red mud oxygen carrier for chemical looping steam methane reforming. <i>Fuel Processing Technology</i> , 2022, 230, 107204.	3.7	17
5	Fluidization Dynamics of a New Two-Stage Fuel Reactor for Chemical Looping Gasification. <i>Energy &amp; Fuels</i> , 2022, 36, 4807-4817.	2.5	2
6	Chemical looping combustion of sulfur paste to SO <sub>2</sub> by phosphogypsum oxygen carrier for sulfur acid production. <i>Fuel</i> , 2022, 323, 124386.	3.4	13
7	MP-PIC Simulation of Biomass Steam Gasification Using Ilmenite as an Oxygen Carrier. <i>Atmosphere</i> , 2022, 13, 1009.	1.0	3
8	Biomass ash chemistry in chemical looping: Interaction between organic-K and Fe <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> oxygen carrier using cellulose-CH <sub>3</sub> COOK as model compound. <i>Biomass and Bioenergy</i> , 2022, 163, 106533.	2.9	6
9	Fluidization of micro-interconnected fluidized beds for chemical looping. <i>Particuology</i> , 2021, 54, 136-145.	2.0	3
10	Effects of torrefaction conditions on the hygroscopicity of biochars. <i>Journal of the Energy Institute</i> , 2021, 96, 260-268.	2.7	23
11	Chemical looping catalytic steam gasification (CLCSG) of algae over La <sub>1</sub> -Ba FeO <sub>3</sub> perovskites for syngas production. <i>Biomass and Bioenergy</i> , 2021, 151, 106154.	2.9	20
12	Evolution of Sm-doped Fe <sub>2</sub> O <sub>3</sub> /CeO <sub>2</sub> Oxygen Carriers in Chemical Looping Hydrogen Generation. <i>Energy Technology</i> , 2021, 9, 2100535.	1.8	2
13	Evaluation of Different Red Muds as Oxygen Carriers in a Fluidized Bed Thermogravimetric Analyzer. <i>Energy &amp; Fuels</i> , 2021, 35, 14805-14815.	2.5	13
14	Mechanical strength evolution of biomass pellet during chemical looping gasification in fluidized bed. <i>Fuel Processing Technology</i> , 2021, 221, 106951.	3.7	6
15	Evaluation of red mud as oxygen carrier for chemical looping combustion of methane and biomass in fluidized bed. <i>Fuel Processing Technology</i> , 2021, 222, 106964.	3.7	30
16	Synergistic effects of lanthanum ferrite perovskite and hydrogen to promote ammonia production during microalgae catalytic pyrolysis process. <i>Bioresource Technology</i> , 2021, 340, 125641.	4.8	22
17	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
18	Study of cluster characteristics in a circulating fluidized bed riser. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, 42, 1553-1564.	1.2	2

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19	Petroleum coke conversion behavior in catalyst-assisted chemical looping combustion. Chinese Journal of Chemical Engineering, 2020, 28, 2417-2424.	1.7	8
20	Synergistic Effects of the Zr and Sm Co-doped Fe <sub>2</sub> O <sub>3</sub> /CeO <sub>2</sub> Oxygen Carrier for Chemical Looping Hydrogen Generation. Energy & Fuels, 2020, 34, 10256-10267.	2.5	21
21	Characteristics of Zhundong Coal Ash in Hematite-Based Chemical Looping Combustion. Energy & Fuels, 2020, 34, 8150-8166.	2.5	17
22	Hydrogen-rich syngas production with tar elimination via biomass chemical looping gasification (BCLG) using BaFe <sub>2</sub> O <sub>4</sub> /Al <sub>2</sub> O <sub>3</sub> as oxygen carrier. Chemical Engineering Journal, 2020, 387, 124107.	6.6	74
23	Production of 5-Hydroxymethylfurfural from Chitin Biomass: A Review. Molecules, 2020, 25, 541.	1.7	35
24	Syngas, tar and char behavior in chemical looping gasification of sawdust pellet in fluidized bed. Fuel, 2020, 270, 117464.	3.4	45
25	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
26	Effect of Sodium Removal on Chemical Looping Combustion of High-Sodium Coal with Hematite as an Oxygen Carrier. Energy & Fuels, 2019, 33, 2153-2165.	2.5	10
27	System simulation and experimental verification: Biomass-based integrated gasification combined cycle (BIGCC) coupling with chemical looping gasification (CLG) for power generation. Fuel, 2019, 241, 118-128.	3.4	57
28	Study on the Migration Characteristics of Sodium and Chlorine in Chemical Looping Process of ZhunDong Coal with Hematite Oxygen Carrier. Energy & Fuels, 2019, 33, 1489-1500.	2.5	7
29	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
30	Performance in Coupled Fluidized Beds for Chemical Looping Combustion of CO and Biomass Using Hematite as an Oxygen Carrier. Energy & Fuels, 2018, 32, 12721-12729.	2.5	15
31	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
32	Review of reactor for chemical looping combustion of solid fuels. International Journal of Greenhouse Gas Control, 2018, 76, 92-110.	2.3	141
33	The investigations of hematite-CuO oxygen carrier in chemical looping combustion. Chemical Engineering Journal, 2017, 317, 132-142.	6.6	63
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	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
36	Experimental investigation on biomass gasification using chemical looping in a batch reactor and a continuous dual reactor. Chemical Engineering Journal, 2016, 286, 689-700.	6.6	76

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37	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
38	Effect of micropore and mesopore structure on CO <sub>2</sub> adsorption by activated carbons from biomass. <i>New Carbon Materials</i> , 2015, 30, 156-166.	2.9	48
39	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
40	Fuel Nitrogen Conversion in Chemical Looping with Oxygen Uncoupling of Coal with a CuO-Based Oxygen Carrier. <i>Energy &amp; Fuels</i> , 2015, 29, 3820-3832.	2.5	23
41	Sewage sludge combustion in a CLC process using nickel-based oxygen carrier. <i>Chemical Engineering Journal</i> , 2015, 260, 631-641.	6.6	30
42	Performance of Hematite/Ca <sub>2</sub> Al <sub>2</sub> SiO <sub>7</sub> Oxygen Carrier in Chemical Looping Combustion of Coal. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 7350-7361.	1.8	15
43	Evaluation of hematite oxygen carrier in chemical-looping combustion of coal. <i>Fuel</i> , 2013, 104, 244-252.	3.4	111
44	Evaluation of the Effect of Sulfur on Iron-Ore Oxygen Carrier in Chemical-Looping Combustion. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 1795-1805.	1.8	36
45	Mechanism Investigation of Enhancing Reaction Performance with CaSO <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> Oxygen Carrier in Chemical-Looping Combustion of Coal. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 4059-4071.	1.8	33
46	Enhanced Reaction Performance with Hematite/Ca <sub>2</sub> Al <sub>2</sub> SiO <sub>7</sub> Oxygen Carrier in Chemical Looping Combustion of Coal. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 9573-9585.	1.8	25
47	Hydrogen Production from a Victorian Brown Coal with in Situ CO <sub>2</sub> Capture in a 1 kW <sub>th</sub> Dual Fluidized-Bed Gasification Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 13046-13053.	1.8	6
48	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
49	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
50	Coal gasification with in situ CO <sub>2</sub> capture by the synthetic CaO sorbent in a 1 kW <sub>th</sub> dual fluidised-bed reactor. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 14195-14204.	3.8	35
51	Nitrogen transfer of fuel-N in chemical looping combustion. <i>Combustion and Flame</i> , 2012, 159, 1286-1295.	2.8	72
52	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
53	Experimental investigation on hydrogen production from biomass gasification in interconnected fluidized beds. <i>Biomass and Bioenergy</i> , 2012, 36, 258-267.	2.9	119
54	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

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55	Chemical Looping Combustion of Biomass/Coal with Natural Iron Ore as Oxygen Carrier in a Continuous Reactor. <i>Energy &amp; Fuels</i> , 2011, 25, 446-455.	2.5	172
56	Characterizing devolatilized wood pellets for fluidized bed applications. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	5
57	Chemical Looping Catalytic Steam Gasification (CLCSG) of Algae Over $\text{La}_{1-x}\text{Ba}_x\text{FeO}_3$ ; Perovskites for Syngas Production. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
58	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