

Xin Tian

List of Publications by Year in descending order

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39
papers

1,374
citations

257357

24
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all docs

39
docs citations

39
times ranked

654
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical looping combustion of coal in a 5 kWth interconnected fluidized bed reactor using hematite as oxygen carrier. <i>Applied Energy</i> , 2015, 157, 304-313.	5.1	105
2	Development of tailor-made oxygen carriers and reactors for chemical looping processes at Huazhong University of Science & Technology. <i>International Journal of Greenhouse Gas Control</i> , 2020, 93, 102898.	2.3	73
3	Chemical looping gasification of biomass: Part I. screening Cu-Fe metal oxides as oxygen carrier and optimizing experimental conditions. <i>Biomass and Bioenergy</i> , 2018, 108, 146-156.	2.9	72
4	Chemical Looping Combustion of Coal in China: Comprehensive Progress, Remaining Challenges, and Potential Opportunities. <i>Energy & Fuels</i> , 2020, 34, 6696-6734.	2.5	72
5	On the high performance of a core-shell structured CaO-CuO/MgO@Al ₂ O ₃ material in calcium looping integrated with chemical looping combustion (CaL-CLC). <i>Chemical Engineering Journal</i> , 2019, 368, 504-512.	6.6	58
6	Chemical-looping gasification of biomass: Part II. Tar yields and distributions. <i>Biomass and Bioenergy</i> , 2018, 108, 178-189.	2.9	54
7	Kinetics of redox reactions of CuO@TiO ₂ @Al ₂ O ₃ for chemical looping combustion and chemical looping with oxygen uncoupling. <i>Combustion and Flame</i> , 2020, 213, 255-267.	2.8	53
8	Ce-modified SrFeO ₃ - for ethane oxidative dehydrogenation coupled with CO ₂ splitting via a chemical looping scheme. <i>Applied Catalysis B: Environmental</i> , 2022, 303, 120894.	10.8	47
9	Performance of a 50 kWth coal-fuelled chemical looping combustor. <i>International Journal of Greenhouse Gas Control</i> , 2018, 75, 98-106.	2.3	46
10	Performance of cement decorated copper ore as oxygen carrier in chemical-looping with oxygen uncoupling. <i>International Journal of Greenhouse Gas Control</i> , 2015, 41, 210-218.	2.3	43
11	Cement bonded fine hematite and copper ore particles as oxygen carrier in chemical looping combustion. <i>Applied Energy</i> , 2017, 204, 242-253.	5.1	43
12	Perovskite oxides for redox oxidative cracking of n-hexane under a cyclic redox scheme. <i>Applied Catalysis B: Environmental</i> , 2019, 246, 30-40.	10.8	43
13	The use of a low-cost oxygen carrier prepared from red mud and copper ore for in situ gasification chemical looping combustion of coal. <i>Fuel Processing Technology</i> , 2020, 205, 106460.	3.7	43
14	Continuous Operation of Interconnected Fluidized Bed Reactor for Chemical Looping Combustion of CH ₄ Using Hematite as Oxygen Carrier. <i>Energy & Fuels</i> , 2015, 29, 3257-3267.	2.5	42
15	Reduction kinetics of hematite as oxygen carrier in chemical looping combustion. <i>Fuel Processing Technology</i> , 2017, 155, 160-167.	3.7	40
16	Sulfur behavior in chemical-looping combustion using a copper ore oxygen carrier. <i>Applied Energy</i> , 2016, 166, 84-95.	5.1	39
17	Fate of Mercury in Volatiles and Char during in Situ Gasification Chemical-Looping Combustion of Coal. <i>Environmental Science & Technology</i> , 2019, 53, 7887-7892.	4.6	37
18	In-situ gasification chemical looping combustion of plastic waste in a semi-continuously operated fluidized bed reactor. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 4389-4397.	2.4	35

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19	CPFD simulation and optimization of a 50 kWth dual circulating fluidized bed reactor for chemical looping combustion of coal. <i>International Journal of Greenhouse Gas Control</i> , 2019, 90, 102800.	2.3	35
20	Sulfur Fate during the Lignite Pyrolysis Process in a Chemical Looping Combustion Environment. <i>Energy & Fuels</i> , 2018, 32, 4493-4501.	2.5	33
21	Chemical looping with oxygen uncoupling of high-sulfur coal using copper ore as oxygen carrier. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 3381-3388.	2.4	30
22	Sulfur fate during in-situ gasification chemical looping combustion (iG-CLC) of coal. <i>Chemical Engineering Journal</i> , 2021, 406, 126773.	6.6	29
23	Using a hierarchically-structured CuO@TiO ₂ -Al ₂ O ₃ oxygen carrier for chemical looping air separation in a paralleled fluidized bed reactor. <i>Chemical Engineering Journal</i> , 2018, 334, 611-618.	6.6	27
24	Fate of fuel nitrogen during in situ gasification chemical looping combustion of coal. <i>Fuel Processing Technology</i> , 2021, 215, 106710.	3.7	27
25	Mechanism and kinetics of Cu ₂ O oxidation in chemical looping with oxygen uncoupling. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 4371-4378.	2.4	24
26	Chemical-Looping with Oxygen Uncoupling of Different Coals Using Copper Ore as an Oxygen Carrier. <i>Energy & Fuels</i> , 2015, 29, 6625-6635.	2.5	22
27	Evaluation of a hierarchically-structured CuO@TiO ₂ -Al ₂ O ₃ oxygen carrier for chemical looping with oxygen uncoupling. <i>Fuel</i> , 2017, 209, 402-410.	3.4	22
28	Investigation of Two Hematites as Oxygen Carrier and Two Low-Rank Coals as Fuel in Chemical Looping Combustion. <i>Energy & Fuels</i> , 2017, 31, 1896-1903.	2.5	21
29	Co and Mo Co-doped Fe ₂ O ₃ for Selective Ethylene Production via Chemical Looping Oxidative Dehydrogenation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 8002-8011.	3.2	21
30	Particle-resolved simulation and modeling of the conversion rate of coal char in chemical looping with oxygen uncoupling. <i>Combustion and Flame</i> , 2020, 213, 331-342.	2.8	19
31	Synergetic effects of cement bonded copper ore and red mud as oxygen carrier during in-situ gasification chemical looping combustion of coal char. <i>Fuel</i> , 2021, 303, 121295.	3.4	18
32	Intrinsic Reduction Kinetics Investigation on a Hematite Oxygen Carrier by CO in Chemical Looping Combustion. <i>Energy & Fuels</i> , 2017, 31, 3010-3018.	2.5	17
33	Numerical Investigation on the Improvement of Carbon Conversion in a Dual Circulating Fluidized Bed Reactor for Chemical Looping Combustion of Coal. <i>Energy & Fuels</i> , 2019, 33, 12801-12813.	2.5	16
34	Redox oxidative cracking of n-hexane with Fe-substituted barium hexaaluminates as redox catalysts. <i>Catalysis Science and Technology</i> , 2019, 9, 2211-2220.	2.1	14
35	The competition between direct gas-solid reduction and oxygen uncoupling of CuO oxygen carrier in chemical looping with oxygen uncoupling: A single particle simulation study. <i>Combustion and Flame</i> , 2020, 221, 219-227.	2.8	14
36	Behavior of mercury in chemical looping with oxygen uncoupling of coal. <i>Fuel Processing Technology</i> , 2021, 216, 106747.	3.7	13

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37	Tailor-making thermocouple junction for flame temperature measurement via dynamic transient method. Proceedings of the Combustion Institute, 2017, 36, 4443-4451.	2.4	12
38	Effect of coal ash on the performance of CuO@TiO ₂ -Al ₂ O ₃ in chemical looping with oxygen uncoupling. Fuel Processing Technology, 2021, 221, 106935.	3.7	8
39	Chemical Looping Combustion of Coal Chars Using Iron Ore of Different Grades as Oxygen Carriers. Energy & Fuels, 2021, 35, 16494-16505.	2.5	7