

Kun Zhao

List of Publications by Year in descending order

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53
papers

2,842
citations

147566

31
h-index

174990

52
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53
all docs

53
docs citations

53
times ranked

1608
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-term coal chemical looping gasification using a bimetallic oxygen carrier of natural hematite and copper ore. <i>Fuel</i> , 2022, 309, 122106.	3.4	19
2	Exploring the migration and transformation of lattice oxygen during chemical looping with NiFe ₂ O ₄ oxygen carrier. <i>Chemical Engineering Journal</i> , 2022, 429, 132064.	6.6	63
3	Reactivity investigation on chemical looping gasification of coal with Iron-Manganese based oxygen carrier. <i>Fuel</i> , 2022, 307, 121772.	3.4	13
4	Co-production of syngas and H ₂ from chemical looping steam reforming of methane over anti-coking CeO ₂ /La _{0.9} Sr _{0.1} Fe _{1-x} Ni _x O ₃ composite oxides. <i>Fuel</i> , 2022, 317, 123455.	3.4	10
5	Syngas production from lignite via chemical looping gasification with hematite oxygen carrier enhanced by exogenous metals. <i>Fuel</i> , 2022, 321, 124119.	3.4	8
6	Towards directional pyrolysis of xylan: Understanding the roles of alkali/alkaline earth metals and pyrolysis temperature. <i>Energy</i> , 2022, 254, 124245.	4.5	3
7	Alkali-metal enhanced LaMnO ₃ perovskite oxides for chemical looping oxidative dehydrogenation of ethane. <i>Applied Catalysis A: General</i> , 2021, 609, 117910.	2.2	29
8	Reaction performance of Ce-enhanced hematite oxygen carrier in chemical looping reforming of biomass pyrolyzed gas coupled with CO ₂ splitting. <i>Energy</i> , 2021, 215, 119044.	4.5	24
9	Mg-doped La _{1.6} Sr _{0.4} FeCoO ₆ for anaerobic oxidative dehydrogenation of ethane using surface-absorbed oxygen with tuned electronic structure. <i>Fuel Processing Technology</i> , 2021, 216, 106771.	3.7	14
10	Selective sequential fractionation of biomass for quantitatively elucidating the compositional factors affecting biomass fast pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 156, 105106.	2.6	12
11	Enhanced Chemical looping oxidative coupling of methane by Na-doped LaMnO ₃ redox catalysts. <i>Fuel</i> , 2021, 299, 120932.	3.4	39
12	In-situ removal of toluene as a biomass tar model compound using NiFe ₂ O ₄ for application in chemical looping gasification oxygen carrier. <i>Energy</i> , 2020, 190, 116360.	4.5	44
13	Minimizing tar formation whilst enhancing syngas production by integrating biomass torrefaction pretreatment with chemical looping gasification. <i>Applied Energy</i> , 2020, 260, 114315.	5.1	75
14	Reducing emission of NO _x and SO _x precursors while enhancing char production from pyrolysis of sewage sludge by torrefaction pretreatment. <i>Energy</i> , 2020, 192, 116620.	4.5	53
15	The role of CuO modified La _{0.7} Sr _{0.3} FeO ₃ perovskite on intermediate-temperature partial oxidation of methane via chemical looping scheme. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 4073-4083.	3.8	28
16	A molten carbonate shell modified perovskite redox catalyst for anaerobic oxidative dehydrogenation of ethane. <i>Science Advances</i> , 2020, 6, eaaz9339.	4.7	61
17	Investigation of the relationship between electronic properties and reactivity of 3DOM LaFe _{1-x} Co _x O ₃ for methane reforming to produce syngas. <i>International Journal of Energy Research</i> , 2019, 43, 7120.	2.2	13
18	Biomass chemical-looping gasification coupled with water/CO ₂ -splitting using NiFe ₂ O ₄ as an oxygen carrier. <i>Energy Conversion and Management</i> , 2019, 201, 112157.	4.4	70

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19	Identifying the roles of MFe ₂ O ₄ (M=Cu, Ba, Ni, and Co) in the chemical looping reforming of char, pyrolysis gas and tar resulting from biomass pyrolysis. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 4674-4687.	3.8	87
20	Exploration of Reaction Mechanisms on Hydrogen Production through Chemical Looping Steam Reforming Using NiFe ₂ O ₄ Oxygen Carrier. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11621-11632.	3.2	68
21	La _{1-x} Sr _x FeO ₃ perovskite-type oxides for chemical-looping steam methane reforming: Identification of the surface elements and redox cyclic performance. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 10265-10276.	3.8	61
22	Enhanced hydrogen-rich syngas generation in chemical looping methane reforming using an interstitial doped La _{1.6} Sr _{0.4} FeCoO ₆ . <i>International Journal of Hydrogen Energy</i> , 2019, 44, 10250-10264.	3.8	23
23	Reaction schemes of barium ferrite in biomass chemical looping gasification for hydrogen-enriched syngas generation via an outer-inner looping redox reaction mechanism. <i>Energy Conversion and Management</i> , 2019, 189, 81-90.	4.4	45
24	Synthesis gas production from chemical looping gasification of lignite by using hematite as oxygen carrier. <i>Energy Conversion and Management</i> , 2019, 185, 774-782.	4.4	47
25	Chemical looping reforming of biomass based pyrolysis gas coupling with chemical looping hydrogen by using Fe/Ni/Al oxygen carriers derived from LDH precursors. <i>Energy Conversion and Management</i> , 2019, 179, 304-313.	4.4	38
26	Effects of Co-substitution on the reactivity of double perovskite oxides LaSrFe _{2-x} Co _x O ₆ for the chemical-looping steam methane reforming. <i>Journal of the Energy Institute</i> , 2019, 92, 594-603.	2.7	30
27	The structure-reactivity relationships of using three-dimensionally ordered macroporous LaFe _{1-x} Ni _x O ₃ perovskites for chemical-looping steam methane reforming. <i>Journal of the Energy Institute</i> , 2019, 92, 239-246.	2.7	30
28	Effects of catalyst preparation parameters and reaction operating conditions on the activity and stability of thermally fused Fe-olivine catalyst in the steam reforming of toluene. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 127-138.	3.8	34
29	Effect of microwave-assisted organosolv fractionation on the chemical structure and decoupling pyrolysis behaviors of waste biomass. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 131, 120-127.	2.6	15
30	Performance evaluation of hematite oxygen carriers in high purity hydrogen generation from cooking oil by chemical looping reaction. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 20500-20512.	3.8	15
31	Comparative study on phenol and naphthalene steam reforming over Ni-Fe alloy catalysts supported on olivine synthesized by different methods. <i>Energy Conversion and Management</i> , 2018, 168, 60-73.	4.4	85
32	Hydrogen production from vegetable oil via a chemical looping process with hematite oxygen carriers. <i>Journal of Cleaner Production</i> , 2018, 200, 588-597.	4.6	34
33	Fast Pyrolysis of Nitrogen-Rich Wood Waste Pretreated by Microwave-Assisted Glycerolysis. <i>Waste and Biomass Valorization</i> , 2017, 8, 349-358.	1.8	3
34	Different oxidation routes for lattice oxygen recovery of double-perovskite type oxides LaSrFeCoO ₆ as oxygen carriers for chemical looping steam methane reforming. <i>Journal of Energy Chemistry</i> , 2017, 26, 501-509.	7.1	40
35	Experimental Investigation of Fe-Ni-Al Oxygen Carrier Derived from Hydrotalcite-like Precursors for the Chemical Looping Gasification of Biomass Char. <i>Energy & Fuels</i> , 2017, 31, 5174-5182.	2.5	25
36	Perovskite-type LaFe _{1-x} Mn _x O ₃ (x=0, 0.3, 0.5, 0.7, 1.0) oxygen carriers for chemical-looping steam methane reforming: Oxidation activity and resistance to carbon formation. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 1651-1660.	1.2	37

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37	Synergistic improvements in stability and performance of the double perovskite-type oxides $\text{La}_{2-x}\text{Sr}_x\text{FeCoO}_6$ for chemical looping steam methane reforming. <i>Applied Energy</i> , 2017, 197, 393-404.	5.1	88
38	Exploration of the mechanism of chemical looping steam methane reforming using double perovskite-type oxides $\text{La}_{1.6}\text{Sr}_{0.4}\text{FeCoO}_6$. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 672-682.	10.8	105
39	Thermodynamic analysis and kinetic investigations on biomass char chemical looping gasification using Fe-Ni bimetallic oxygen carrier. <i>Energy</i> , 2017, 141, 1836-1844.	4.5	75
40	Chemical looping gasification of biomass char using iron ore as an oxygen carrier. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 17871-17883.	3.8	116
41	Synthesis of three-dimensionally ordered macroporous $\text{LaFe}_{0.7}\text{Co}_{0.3}\text{O}_3$ perovskites and their performance for chemical-looping steam reforming of methane. <i>Journal of Fuel Chemistry and Technology</i> , 2016, 44, 1168-1176.	0.9	8
42	Preparation of double perovskite-type oxide LaSrFeCoO_6 for chemical looping steam methane reforming to produce syngas and hydrogen. <i>Journal of Rare Earths</i> , 2016, 34, 1032-1041.	2.5	33
43	CaO/MgO modified perovskite type oxides for chemical-looping steam reforming of methane. <i>Journal of Fuel Chemistry and Technology</i> , 2016, 44, 680-688.	0.9	8
44	Perovskite-type oxides $\text{LaFe}_{1-x}\text{Co}_x\text{O}_3$ for chemical looping steam methane reforming to syngas and hydrogen co-production. <i>Applied Energy</i> , 2016, 168, 193-203.	5.1	197
45	Performance of Fe-Ni bimetallic oxygen carriers for chemical looping gasification of biomass in a 10 kW _{th} interconnected circulating fluidized bed reactor. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 16021-16032.	3.8	96
46	Impact of Torrefaction on the Chemical Structure and Catalytic Fast Pyrolysis Behavior of Hemicellulose, Lignin, and Cellulose. <i>Energy & Fuels</i> , 2015, 29, 8027-8034.	2.5	135
47	Continuous Operation of a 10 kW _{th} Chemical Looping Integrated Fluidized Bed Reactor for Gasifying Biomass Using an Iron-Based Oxygen Carrier. <i>Energy & Fuels</i> , 2015, 29, 233-241.	2.5	68
48	Three-dimensionally ordered macroporous LaFeO_3 perovskites for chemical-looping steam reforming of methane. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 3243-3252.	3.8	121
49	Biomass Char Direct Chemical Looping Gasification Using NiO-Modified Iron Ore as an Oxygen Carrier. <i>Energy & Fuels</i> , 2014, 28, 183-191.	2.5	118
50	$\text{La}_{1-x}\text{Sr}_x\text{FeO}_3$ perovskites as oxygen carriers for the partial oxidation of methane to syngas. <i>Chinese Journal of Catalysis</i> , 2014, 35, 1196-1205.	6.9	49
51	The use of $\text{La}_{1-x}\text{Sr}_x\text{FeO}_3$ perovskite-type oxides as oxygen carriers in chemical-looping reforming of methane. <i>Fuel</i> , 2013, 108, 465-473.	3.4	155
52	Synthesis gas production through biomass direct chemical looping conversion with natural hematite as an oxygen carrier. <i>Bioresource Technology</i> , 2013, 140, 138-145.	4.8	118
53	Synthesis of three-dimensionally ordered macroporous LaFeO_3 perovskites and their performance for chemical-looping reforming of methane. <i>Chinese Journal of Catalysis</i> , 2013, 34, 1242-1249.	6.9	57