

# Haibo Zhao

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3685381/publications.pdf>

Version: 2024-02-01

212  
papers

6,282  
citations

57758

44  
h-index

128289

60  
g-index

214  
all docs

214  
docs citations

214  
times ranked

3135  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reaction characteristics investigation of CeO <sub>2</sub> -enhanced CaSO <sub>4</sub> oxygen carrier with lignite. Chinese Journal of Chemical Engineering, 2022, 42, 319-328.	3.5	2
2	Size Effect of (CuO) <sub>n</sub> (n=1-6) Clusters on the Modification of Rutile-TiO <sub>2</sub> Photocatalysts. Energy Technology, 2022, 10, 2100161.	3.8	7
3	Long-term coal chemical looping gasification using a bimetallic oxygen carrier of natural hematite and copper ore. Fuel, 2022, 309, 122106.	6.4	19
4	Ce-modified SrFeO <sub>3</sub> - for ethane oxidative dehydrogenation coupled with CO <sub>2</sub> splitting via a chemical looping scheme. Applied Catalysis B: Environmental, 2022, 303, 120894.	20.2	47
5	Multi-scale kinetic study of the oxygen uncoupling of CuO oxygen carrier in chemical looping. Chemical Engineering Journal, 2022, 433, 133784.	12.7	5
6	Investigation on iron ore for the oxygen carrier aided combustion. Fuel Processing Technology, 2022, 230, 107214.	7.2	6
7	The Cytoplasmic Dynein Associated Protein NDE1 Regulates Osteoclastogenesis by Modulating M-CSF and RANKL Signaling Pathways. Cells, 2022, 11, 13.	4.1	7
8	Semi-continuous Operation of Chemical Looping Combustion of Coal Using a Low-Cost Composite Oxygen Carrier. Energy & Fuels, 2022, 36, 9450-9459.	5.1	8
9	Ultra-rich fuel dynamics of a holder-stabilized premixed flame in a preheated mesoscale combustor. Energy, 2021, 214, 118960.	8.8	3
10	Sulfur fate during in-situ gasification chemical looping combustion (iG-CLC) of coal. Chemical Engineering Journal, 2021, 406, 126773.	12.7	29
11	A modified intrinsic model for conversion rate of coal char particle in chemical looping with oxygen uncoupling conditions. Fuel, 2021, 288, 119615.	6.4	3
12	The microscopic oxidation mechanism of NH <sub>3</sub> on CuO(111): A first-principles study. Fuel Processing Technology, 2021, 213, 106712.	7.2	15
13	Interaction mechanism among CO, H <sub>2</sub> S and CuO oxygen carrier in chemical looping combustion: A density functional theory calculation study. Proceedings of the Combustion Institute, 2021, 38, 5281-5288.	3.9	11
14	Virtual Special Issue of Recent Research Advances in China: Chemical Looping. Energy & Fuels, 2021, 35, 3-6.	5.1	7
15	Flame spray pyrolysis made Pt/TiO <sub>2</sub> photocatalysts with ultralow platinum loading and high hydrogen production activity. Proceedings of the Combustion Institute, 2021, 38, 6503-6511.	3.9	23
16	Flame spray pyrolysis synthesis and H <sub>2</sub> S sensing properties of CuO-doped SnO <sub>2</sub> nanoparticles. Proceedings of the Combustion Institute, 2021, 38, 6743-6751.	3.9	20
17	Laminar non-premixed flame patterns in compact micro disc-combustor with annular step and radial preheated channel. Combustion and Flame, 2021, 227, 465-480.	5.2	14
18	Fate of fuel-nitrogen during in situ gasification chemical looping combustion of coal. Fuel Processing Technology, 2021, 215, 106710.	7.2	27

#	ARTICLE	IF	CITATIONS
19	Co and Mo Co-doped Fe <sub>2</sub> O <sub>3</sub> for Selective Ethylene Production via Chemical Looping Oxidative Dehydrogenation. ACS Sustainable Chemistry and Engineering, 2021, 9, 8002-8011.	6.7	21
20	Behavior of mercury in chemical looping with oxygen uncoupling of coal. Fuel Processing Technology, 2021, 216, 106747.	7.2	13
21	Identifying the contribution of rich-CO <sub>2</sub> /H <sub>2</sub> O gasification on the char conversion in typical atmospheres of chemical looping with oxygen uncoupling via single particle simulation. Combustion and Flame, 2021, 229, 111397.	5.2	9
22	Ultra-lean blow-off dynamics of a holder-stabilized premixed flame in a preheated mesoscale combustor near laminar critical condition. Energy, 2021, 228, 120627.	8.8	5
23	Photothermocatalytic Removal of CO and Formaldehyde with Excellent Water Vapor Stability over Dual-Functional Copper Loading on TiO <sub>2</sub> Synthesized via Flame Spray Pyrolysis. Solar Rrl, 2021, 5, 2100490.	5.8	9
24	Anomalous blow-off behavior of a holder-stabilized premixed flame in a preheated mesoscale combustor. Combustion and Flame, 2021, 230, 111452.	5.2	11
25	Process design and exergy cost analysis of a chemical looping ammonia generation system using AlN/Al <sub>2</sub> O <sub>3</sub> as a nitrogen carrier. Energy, 2021, 230, 120767.	8.8	18
26	Synergistic reaction investigation of the NiO modified CaSO <sub>4</sub> oxygen carrier with lignite for simultaneous CO <sub>2</sub> capture and SO <sub>2</sub> removal. Fuel Processing Technology, 2021, 220, 106895.	7.2	14
27	Performance Evaluation of Inexpensive Cu/Fe-Based Oxygen Carriers in Chemical Looping Gasification of Coal. Energy & Fuels, 2021, 35, 15513-15524.	5.1	9
28	Effect of coal ash on the performance of CuO@TiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> in chemical looping with oxygen uncoupling. Fuel Processing Technology, 2021, 221, 106935.	7.2	8
29	Binary-ore oxygen carriers prepared by extrusion-spheronization method for chemical looping combustion of coal. Fuel Processing Technology, 2021, 221, 106921.	7.2	11
30	Synergetic effects of cement bonded copper ore and red mud as oxygen carrier during in-situ gasification chemical looping combustion of coal char. Fuel, 2021, 303, 121295.	6.4	18
31	Chemical Looping Combustion of Coal Chars Using Iron Ore of Different Grades as Oxygen Carriers. Energy & Fuels, 2021, 35, 16494-16505.	5.1	7
32	CuO Quantum Dots Supported by SrTiO <sub>3</sub> Perovskite Using the Flame Spray Pyrolysis Method: Enhanced Activity and Excellent Thermal Resistance for Catalytic Combustion of CO and CH <sub>4</sub> . Environmental Science & Technology, 2021, 55, 14080-14086.	10.0	16
33	Deep Insight into the Mechanism of Catalytic Combustion of CO and CH <sub>4</sub> over SrTi <sub>1-x</sub> B <sub>x</sub> O <sub>3</sub> (B = Co, Fe, Mn, Ni, and Cu) Perovskite via Flame Spray Pyrolysis. ACS Applied Materials & Interfaces, 2021, 13, 52571-52587.	8.0	18
34	Incorporating highly dispersed and stable Cu <sup>+</sup> into TiO <sub>2</sub> lattice for enhanced photocatalytic CO <sub>2</sub> reduction with water. Applied Surface Science, 2020, 507, 145095.	6.1	29
35	Kinetics of redox reactions of CuO@TiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> for chemical looping combustion and chemical looping with oxygen uncoupling. Combustion and Flame, 2020, 213, 255-267.	5.2	53
36	Particle-resolved simulation and modeling of the conversion rate of coal char in chemical looping with oxygen uncoupling. Combustion and Flame, 2020, 213, 331-342.	5.2	19

#	ARTICLE	IF	CITATIONS
37	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.	4.6	73
38	Low-temperature complete removal of toluene over highly active nanoparticles CuO-TiO <sub>2</sub> synthesized via flame spray pyrolysis. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118427.	20.2	31
39	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.	5.2	14
40	Flammability limit of methane-air nonpremixed mixture in a micro preheated combustor with a flame holder. <i>Chemical Engineering Science</i> , 2020, 227, 115914.	3.8	10
41	Anomalous blow-off limit of methane-air premixed flame in a micro preheated combustor with a flame holder. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 31202-31212.	7.1	6
42	Blow-off mechanism of a holder-stabilized laminar premixed flame in a preheated mesoscale combustor. <i>Combustion and Flame</i> , 2020, 220, 358-367.	5.2	29
43	Blowout limit of premixed flame in a micro preheated combustor with a flame holder at different blockage ratios. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 25468-25478.	7.1	8
44	Using Copper Ore and Hematite Fine Particles as Raw Materials of an Oxygen Carrier for Chemical Looping Combustion of Coal: Spray Drying Granulation and Performance Evaluation. <i>Energy &amp; Fuels</i> , 2020, 34, 8587-8599.	5.1	23
45	Anchoring mechanisms of a holder-stabilized premixed flame in a preheated mesoscale combustor. <i>Physics of Fluids</i> , 2020, 32, .	4.0	19
46	One-Step Synthesis of Nanostructured Cu-Mn/TiO <sub>2</sub> via Flame Spray Pyrolysis: Application to Catalytic Combustion of CO and CH <sub>4</sub> . <i>Energy &amp; Fuels</i> , 2020, 34, 14447-14457.	5.1	9
47	Experimental study on blow-off limit of a preheated and flame holder-stabilized laminar premixed flame. <i>Chemical Engineering Science</i> , 2020, 223, 115754.	3.8	18
48	Chemical Looping Combustion of Coal in China: Comprehensive Progress, Remaining Challenges, and Potential Opportunities. <i>Energy &amp; Fuels</i> , 2020, 34, 6696-6734.	5.1	72
49	Exploring the microscopic reaction mechanism of H <sub>2</sub> S and COS with CuO oxygen carrier in chemical looping combustion. <i>Fuel Processing Technology</i> , 2020, 205, 106431.	7.2	20
50	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.	7.2	43
51	Chemical Looping Combustion Characteristics of Coal with a Novel CaSO <sub>4</sub> -Ca <sub>2</sub> CuO <sub>3</sub> Mixed Oxygen Carrier. <i>Energy &amp; Fuels</i> , 2020, 34, 7316-7328.	5.1	16
52	Excess enthalpy combustion of methane-air in a novel micro non-premixed combustor with a flame holder and preheating channels. <i>Fuel</i> , 2020, 271, 117518.	6.4	29
53	Effect of conjugate heat exchange of flame holder on laminar premixed flame stabilization in a meso-scale diverging combustor. <i>Energy</i> , 2020, 198, 117294.	8.8	16
54	A comparative process simulation study of Ca Cu looping involving post-combustion CO <sub>2</sub> capture. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 2382-2390.	3.5	4

#	ARTICLE	IF	CITATIONS
55	Dynamics of a holder-stabilized laminar methane-air premixed flame in a preheated mesoscale combustor at ultra-lean condition. <i>Fuel</i> , 2020, 279, 118473.	6.4	14
56	Effect of thermal condition of solid wall on the stabilization of a preheated and holder-stabilized laminar premixed flame. <i>Energy</i> , 2020, 200, 117548.	8.8	15
57	Thermodynamic and economic performance of oxy-combustion power plants integrating chemical looping air separation. <i>Energy</i> , 2020, 206, 118136.	8.8	17
58	Insight into the Oxidation Mechanism of a Cu-Based Oxygen Carrier ( $\text{Cu} \rightarrow \text{Cu}_2\text{O} \rightarrow \text{CuO}$ ) in Chemical Looping Combustion. <i>Energy &amp; Fuels</i> , 2020, 34, 8718-8725.	5.1	34
59	Flame spray pyrolysis synthesized CuO-TiO <sub>2</sub> nanoparticles for catalytic combustion of lean CO. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 5499-5506.	3.9	35
60	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.	3.9	35
61	Mechanism and kinetics of Cu <sub>2</sub> O oxidation in chemical looping with oxygen uncoupling. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 4371-4378.	3.9	24
62	Reaction Characteristic Investigation of the Combined Template-Method-Made CaSO <sub>4</sub> ·Mn <sub>3</sub> O <sub>4</sub> Mixed Oxygen Carrier with Lignite. <i>Energy &amp; Fuels</i> , 2019, 33, 8954-8966.	5.1	11
63	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.	4.6	35
64	Perovskite oxides for redox oxidative cracking of n-hexane under a cyclic redox scheme. <i>Applied Catalysis B: Environmental</i> , 2019, 246, 30-40.	20.2	43
65	Fate of Mercury in Volatiles and Char during in Situ Gasification Chemical-Looping Combustion of Coal. <i>Environmental Science &amp; Technology</i> , 2019, 53, 7887-7892.	10.0	37
66	Chemical looping gasification of coal using calcium ferrites as oxygen carrier. <i>Fuel Processing Technology</i> , 2019, 192, 75-86.	7.2	69
67	On the high performance of a core-shell structured CaO-CuO/MgO@Al <sub>2</sub> O <sub>3</sub> material in calcium looping integrated with chemical looping combustion (CaL-CLC). <i>Chemical Engineering Journal</i> , 2019, 368, 504-512.	12.7	58
68	Population balance Monte Carlo simulation of self-assembly of core (micro-Al <sub>2</sub> O <sub>3</sub> )-shell (nano-TiO <sub>2</sub> ) structure in aqueous suspensions. <i>Chemical Engineering Science</i> , 2019, 199, 100-112.	3.8	6
69	Redox oxidative cracking of n-hexane with Fe-substituted barium hexaaluminates as redox catalysts. <i>Catalysis Science and Technology</i> , 2019, 9, 2211-2220.	4.1	14
70	Numerical Investigation on the Improvement of Carbon Conversion in a Dual Circulating Fluidized Bed Reactor for Chemical Looping Combustion of Coal. <i>Energy &amp; Fuels</i> , 2019, 33, 12801-12813.	5.1	16
71	Using a hierarchically-structured CuO@TiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> oxygen carrier for chemical looping air separation in a parallel fluidized bed reactor. <i>Chemical Engineering Journal</i> , 2018, 334, 611-618.	12.7	27
72	Kinetics model for the reduction of Fe <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> by CO in Chemical Looping Combustion. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 124, 137-146.	3.6	22

#	ARTICLE	IF	CITATIONS
73	Chemical-looping combustion of plastic wastes for in situ inhibition of dioxins. <i>Combustion and Flame</i> , 2018, 191, 9-18.	5.2	46
74	Sulfur Fate during the Lignite Pyrolysis Process in a Chemical Looping Combustion Environment. <i>Energy &amp; Fuels</i> , 2018, 32, 4493-4501.	5.1	33
75	Control optimization to achieve energy-efficient operation of the air separation unit in oxy-fuel combustion power plants. <i>Energy</i> , 2018, 152, 313-321.	8.8	12
76	Chemical-looping gasification of biomass: Part II. Tar yields and distributions. <i>Biomass and Bioenergy</i> , 2018, 108, 178-189.	5.7	54
77	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.	5.7	72
78	Chemical looping combustion characteristics of coal with Fe <sub>2</sub> O <sub>3</sub> oxygen carrier. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 132, 17-27.	3.6	13
79	Methane/air premixed flame topology structure in a mesoscale combustor with a plate flame holder and preheating channels. <i>Energy</i> , 2018, 165, 802-811.	8.8	27
80	Extension and evaluation of a macroscopic model for syngas-fueled chemical looping combustion. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 133, 106-116.	3.6	9
81	Molecular Dynamics Simulation of the Microscopic Sintering Process of CuO Nanograins Inside an Oxygen Carrier Particle. <i>Journal of Physical Chemistry C</i> , 2018, 122, 25595-25605.	3.1	17
82	Simultaneous Control over Lattice Doping and Nanocluster Modification of a Hybrid CuO <sub>x</sub> /TiO <sub>2</sub> Photocatalyst during Flame Synthesis for Enhancing Hydrogen Evolution. <i>Solar Rrl</i> , 2018, 2, 1800215.	5.8	17
83	Thermal performance of solid walls in a mesoscale combustor with a plate flame holder and preheating channels. <i>Energy</i> , 2018, 157, 448-459.	8.8	28
84	Macroscopic fuel reactor modelling of a 5â€kwth interconnected fluidized bed for in-situ gasification chemical looping combustion of coal. <i>Chemical Engineering Journal</i> , 2018, 348, 978-991.	12.7	15
85	Performance of a 50â€kwth coal-fuelled chemical looping combustor. <i>International Journal of Greenhouse Gas Control</i> , 2018, 75, 98-106.	4.6	46
86	Control Concepts, Dynamic Behavior and Mode Transition Strategy for Oxy-fuel Combustion Systems. , 2018, , 239-262.		0
87	System Integration and Optimization for Large Scale Oxy-fuel Combustion Systems. , 2018, , 223-238.		0
88	Anchoring mechanisms of methane/air premixed flame in a mesoscale diverging combustor with cylindrical flame holder. <i>Fuel</i> , 2018, 232, 591-599.	6.4	31
89	Causes and mitigation of gas temperature deviation in tangentially fired tower-type boilers. <i>Applied Thermal Engineering</i> , 2018, 139, 135-143.	6.0	32
90	Dynamics of methane/air premixed flame in a mesoscale diverging combustor with/without a cylindrical flame holder. <i>Fuel</i> , 2018, 232, 659-665.	6.4	34

#	ARTICLE	IF	CITATIONS
91	Investigation of Two Hematites as Oxygen Carrier and Two Low-Rank Coals as Fuel in Chemical Looping Combustion. <i>Energy &amp; Fuels</i> , 2017, 31, 1896-1903.	5.1	21
92	Modifying the inter-phase drag via solid volume fraction gradient for CFD simulation of fast fluidized beds. <i>AIChE Journal</i> , 2017, 63, 2588-2598.	3.6	27
93	Dynamic Exergy Method for Evaluating the Control and Operation of Oxy-Combustion Boiler Island Systems. <i>Environmental Science &amp; Technology</i> , 2017, 51, 725-732.	10.0	14
94	Flame spray pyrolysis synthesized ZnO/CeO <sub>2</sub> nanocomposites for enhanced CO <sub>2</sub> photocatalytic reduction under UV-Vis light irradiation. <i>Journal of CO<sub>2</sub> Utilization</i> , 2017, 18, 53-61.	6.8	89
95	Intrinsic Reduction Kinetics Investigation on a Hematite Oxygen Carrier by CO in Chemical Looping Combustion. <i>Energy &amp; Fuels</i> , 2017, 31, 3010-3018.	5.1	17
96	Effect of Reaction Temperature on the Chemical Looping Combustion of Coal with CuFe <sub>2</sub> O <sub>4</sub> Combined Oxygen Carrier. <i>Energy &amp; Fuels</i> , 2017, 31, 5233-5245.	5.1	48
97	Multi-parameter measurements of laminar sooting flames using thermophoretic sampling technique. <i>Combustion and Flame</i> , 2017, 180, 158-166.	5.2	15
98	Uniform-Design-Based Optimization for Fuel Reactor of Chemical Looping Combustion. <i>International Journal of Chemical Reactor Engineering</i> , 2017, 15, .	1.1	1
99	Numerical investigation on non-steady-state filtration of elliptical fibers for submicron particles in the "Greenfield gap" range. <i>Journal of Aerosol Science</i> , 2017, 114, 263-275.	3.8	10
100	Evaluation of a hierarchically-structured CuO@TiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> oxygen carrier for chemical looping with oxygen uncoupling. <i>Fuel</i> , 2017, 209, 402-410.	6.4	22
101	Cement bonded fine hematite and copper ore particles as oxygen carrier in chemical looping combustion. <i>Applied Energy</i> , 2017, 204, 242-253.	10.1	43
102	Dynamics of premixed CH <sub>4</sub> /air flames in a micro combustor with a plate flame holder and preheating channels. <i>Energy</i> , 2017, 139, 366-379.	8.8	43
103	Chemical Looping Combustion of a Typical Lignite with a CaSO <sub>4</sub> -CuO Mixed Oxygen Carrier. <i>Energy &amp; Fuels</i> , 2017, 31, 13942-13954.	5.1	33
104	One-Step Synthesis of Cu <sub>2</sub> O Heterojunction by Flame Spray Pyrolysis for Cathodic Photoelectrochemical Sensing of Cysteine. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 40452-40460.	8.0	145
105	Tailor-making thermocouple junction for flame temperature measurement via dynamic transient method. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 4443-4451.	3.9	12
106	Understanding CuO-support interaction in Cu-based oxygen carriers at a microcosmic level. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 4069-4077.	3.9	31
107	CFD-population balance Monte Carlo simulation and numerical optimization for flame synthesis of TiO <sub>2</sub> nanoparticles. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 1099-1108.	3.9	18
108	Reduction kinetics of hematite as oxygen carrier in chemical looping combustion. <i>Fuel Processing Technology</i> , 2017, 155, 160-167.	7.2	40



#	ARTICLE	IF	CITATIONS
109	Chemical looping with oxygen uncoupling of high-sulfur coal using copper ore as oxygen carrier. Proceedings of the Combustion Institute, 2017, 36, 3381-3388.	3.9	30
110	Error evaluation on pyrolysis kinetics of sawdust using iso-conversional methods. Journal of Thermal Analysis and Calorimetry, 2016, 124, 1635-1640.	3.6	14
111	Conservative particle weighting scheme for particle collision in gas-solid flows. International Journal of Multiphase Flow, 2016, 83, 12-26.	3.4	3
112	Manganese Minerals as Oxygen Carriers for Chemical Looping Combustion of Coal. Industrial & Engineering Chemistry Research, 2016, 55, 6539-6546.	3.7	38
113	Numerical Simulation of an Entrained Flow Gasifier by an Eulerian Model. , 2016, , 585-590.		0
114	Dynamic Simulation and Control Design for Pulverized-Coal-Fired Oxy-Combustion Power Plants. , 2016, , 325-333.		0
115	Predictions on dynamic evolution of compositional mixing degree in two-component aggregation. Journal of Aerosol Science, 2016, 101, 10-21.	3.8	2
116	Application of CaO-Decorated Iron Ore for Inhibiting Chlorobenzene during <i>In Situ</i> Gasification Chemical Looping Combustion of Plastic Waste. Energy & Fuels, 2016, 30, 5999-6008.	5.1	22
117	Migration and Redistribution of Sulfur Species during Chemical Looping Combustion of Coal with $\text{CuFe}_{2}\text{O}_{4}$ Combined Oxygen Carrier. Energy & Fuels, 2016, 30, 8499-8510.	5.1	26
118	Reduction kinetics analysis of sol-gel-derived $\text{CuO/CuAl}_2\text{O}_4$ oxygen carrier for chemical looping with oxygen uncoupling. Journal of Thermal Analysis and Calorimetry, 2016, 123, 745-756.	3.6	23
119	Sulfur behavior in chemical-looping combustion using a copper ore oxygen carrier. Applied Energy, 2016, 166, 84-95.	10.1	39
120	Evaluation of CaO-decorated $\text{Fe}_2\text{O}_3/\text{Al}_2\text{O}_3$ as an oxygen carrier for in-situ gasification chemical looping combustion of plastic wastes. Fuel, 2016, 165, 235-243.	6.4	56
121	Dynamic exergy method and its application for CO <sub>2</sub> compression and purification unit in oxy-combustion power plants. Chemical Engineering Science, 2016, 144, 336-345.	3.8	17
122	Batch fluidized bed test of SATS-derived $\text{CaO/TiO}_2\text{-Al}_2\text{O}_3$ sorbent for calcium looping. Fuel, 2016, 170, 226-234.	6.4	28
123	A clean coal utilization technology based on coal pyrolysis and chemical looping with oxygen uncoupling: Principle and experimental validation. Energy, 2016, 98, 181-189.	8.8	35
124	Numerical study of pressure drop and diffusional collection efficiency of several typical noncircular fibers in filtration. Powder Technology, 2016, 292, 232-241.	4.2	27
125	In-Depth Investigation of Chemical Looping Combustion of a Chinese Bituminous Coal with $\text{CuFe}_{2}\text{O}_{4}$ Combined Oxygen Carrier. Energy & Fuels, 2016, 30, 2285-2294.	5.1	25
126	High-Performance of SATS-Derived $\text{CaO/TiO}_2\text{-Al}_2\text{O}_3$ Sorbent for CO <sub>2</sub> Capture in Batch Fluidized Bed. , 2016, , 341-346.		0



#	ARTICLE	IF	CITATIONS
127	Pyrolysis kinetics of perfusion tubes under non-isothermal and isothermal conditions. <i>Energy Conversion and Management</i> , 2015, 106, 1048-1056.	9.2	16
128	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.	4.6	43
129	Self-assembly template combustion synthesis of a core-shell CuO@TiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> hierarchical structure as an oxygen carrier for the chemical-looping processes. <i>Combustion and Flame</i> , 2015, 162, 3030-3045.	5.2	53
130	Characterization of a sol-gel derived CuO/CuAl <sub>2</sub> O <sub>4</sub> oxygen carrier for chemical looping combustion (CLC) of gaseous fuels: Relevance of gas-solid and oxygen uncoupling reactions. <i>Fuel Processing Technology</i> , 2015, 133, 210-219.	7.2	49
131	Synergistic effects of mixtures of iron ores and copper ores as oxygen carriers in chemical-looping combustion. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 2811-2818.	3.9	72
132	Effects of furnace chamber shape on the MILD combustion of natural gas. <i>Applied Thermal Engineering</i> , 2015, 76, 64-75.	6.0	65
133	Identification of the compensation effect in the characteristic sintering time model for population balances. <i>Journal of Aerosol Science</i> , 2015, 82, 1-12.	3.8	2
134	The Influence of Fiber Geometry and Orientation Angle on Filtration Performance. <i>Aerosol Science and Technology</i> , 2015, 49, 75-85.	3.1	33
135	Computational fluid dynamics simulation for chemical looping combustion of coal in a dual circulation fluidized bed. <i>Energy Conversion and Management</i> , 2015, 105, 1-12.	9.2	79
136	Comprehensive investigation of process characteristics for oxy-steam combustion power plants. <i>Energy Conversion and Management</i> , 2015, 99, 92-101.	9.2	53
137	Chemical-looping auto-thermal reforming of biomass using Cu-based oxygen carrier. <i>Applied Energy</i> , 2015, 157, 408-415.	10.1	73
138	Chemical looping dechlorination through adsorbent-decorated Fe <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> oxygen carriers. <i>Combustion and Flame</i> , 2015, 162, 3503-3515.	5.2	34
139	Tailor-Made Core-shell CaO/TiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> Architecture as a High-Capacity and Long-Life CO <sub>2</sub> Sorbent. <i>Environmental Science &amp; Technology</i> , 2015, 49, 8237-8245.	10.0	76
140	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.	10.1	105
141	Simultaneous measurement of internal and external properties of nanoparticles in flame based on thermophoresis. <i>Combustion and Flame</i> , 2015, 162, 2200-2213.	5.2	25
142	Decomposition mechanisms of Cu-based oxygen carriers for chemical looping with oxygen uncoupling based on density functional theory calculations. <i>Combustion and Flame</i> , 2015, 162, 1265-1274.	5.2	58
143	Synthesis Gas Generation by Chemical-Looping Reforming of Biomass with Natural Copper Ore as Oxygen Carrier. <i>Waste and Biomass Valorization</i> , 2015, 6, 81-89.	3.4	32
144	Thermogravimetric Analysis of Rubber Glove Pyrolysis by Different Iso-conversional Methods. <i>Waste and Biomass Valorization</i> , 2015, 6, 527-533.	3.4	11

#	ARTICLE	IF	CITATIONS
145	Continuous Operation of Interconnected Fluidized Bed Reactor for Chemical Looping Combustion of CH <sub>4</sub> Using Hematite as Oxygen Carrier. Energy & Fuels, 2015, 29, 3257-3267.	5.1	42
146	Optimization and control for CO <sub>2</sub> compression and purification unit in oxy-combustion power plants. Energy, 2015, 83, 416-430.	8.8	50
147	Thermoeconomic cost analysis of CO <sub>2</sub> compression and purification unit in oxy-combustion power plants. Energy Conversion and Management, 2015, 106, 53-60.	9.2	23
148	Plantwide control and operating strategy for air separation unit in oxy-combustion power plants. Energy Conversion and Management, 2015, 106, 782-792.	9.2	27
149	Evaluation of Manganese Minerals for Chemical Looping Combustion. Energy & Fuels, 2015, 29, 6605-6615.	5.1	54
150	Chemical-Looping with Oxygen Uncoupling of Different Coals Using Copper Ore as an Oxygen Carrier. Energy & Fuels, 2015, 29, 6625-6635.	5.1	22
151	Differentially weighted direct simulation Monte Carlo method for particle collision in gas-solid flows. Particuology, 2015, 21, 135-145.	3.6	7
152	Accelerating population balance-Monte Carlo simulation for coagulation dynamics from the Markov jump model, stochastic algorithm and GPU parallel computing. Journal of Computational Physics, 2015, 281, 844-863.	3.8	33
153	Numerical study of combustion characteristics for pulverized coal under oxy-MILD operation. Fuel Processing Technology, 2015, 135, 80-90.	7.2	62
154	Technical Issues in Financing and Managing Risk of Large-scale Oxyfuel CO <sub>2</sub> Capture Power Plant in China. Energy Procedia, 2014, 63, 7234-7241.	1.8	2
155	Chemical looping combustion of high-sulfur coal with NiFe <sub>2</sub> O <sub>4</sub> -combined oxygen carrier. Journal of Thermal Analysis and Calorimetry, 2014, 118, 1593-1602.	3.6	50
156	On a Highly Reactive Fe <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> Oxygen Carrier for <i>In Situ</i> Gasification Chemical Looping Combustion. Energy & Fuels, 2014, 28, 7043-7052.	5.1	37
157	Comparison of preparation methods for iron-alumina oxygen carrier and its reduction kinetics with hydrogen in chemical looping combustion. Asia-Pacific Journal of Chemical Engineering, 2014, 9, 610-622.	1.5	13
158	Comparison of Large-Scale Production Methods of Fe <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> Oxygen Carriers for Chemical Looping Combustion. Chemical Engineering and Technology, 2014, 37, 1211-1219.	1.5	24
159	Characterization of natural copper ore as oxygen carrier in chemical-looping with oxygen uncoupling of anthracite. International Journal of Greenhouse Gas Control, 2014, 22, 154-164.	4.6	73
160	Simulation and investigation of periodic deflecting oscillation of gas-solid planar opposed jets. Chemical Engineering and Processing: Process Intensification, 2014, 76, 6-15.	3.6	6
161	Fast Monte Carlo simulation for particle coagulation in population balance. Journal of Aerosol Science, 2014, 74, 11-25.	3.8	24
162	Simulating and Modeling Particulate Removal Processes by Elliptical Fibers. Aerosol Science and Technology, 2014, 48, 207-218.	3.1	20

#	ARTICLE	IF	CITATIONS
163	Dynamic modeling and control for pulverized-coal-fired oxy-combustion boiler island. <i>International Journal of Greenhouse Gas Control</i> , 2014, 30, 97-117.	4.6	31
164	Copper-Decorated Hematite as an Oxygen Carrier for in Situ Gasification Chemical Looping Combustion of Coal. <i>Energy &amp; Fuels</i> , 2014, 28, 3970-3981.	5.1	74
165	Dynamic simulation for mode switching strategy in a conceptual 600 MWe oxy-combustion pulverized-coal-fired boiler. <i>Fuel</i> , 2014, 137, 135-144.	6.4	27
166	Dependence of Steady-State Compositional Mixing Degree on Feeding Conditions in Two-Component Aggregation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 6047-6055.	3.7	9
167	Sulfur evolution in chemical looping combustion of coal with MnFe <sub>2</sub> O <sub>4</sub> oxygen carrier. <i>Journal of Environmental Sciences</i> , 2014, 26, 1062-1070.	6.1	40
168	Assessing the Option Value of Retrofitting a 200MW Power Plant to Oxyfuel CO <sub>2</sub> Capture. <i>Energy Procedia</i> , 2014, 63, 7330-7336.	1.8	0
169	Chemical Looping Combustion of Petroleum Coke with CuFe <sub>2</sub> O <sub>4</sub> as Oxygen Carrier. <i>Chemical Engineering and Technology</i> , 2013, 36, 1488-1495.	1.5	25
170	Simulation of filtration process for multi-fiber filter using the Lattice-Boltzmann two-phase flow model. <i>Journal of Aerosol Science</i> , 2013, 66, 164-178.	3.8	56
171	A population balance-Monte Carlo method for particle coagulation in spatially inhomogeneous systems. <i>Computers and Fluids</i> , 2013, 71, 196-207.	2.5	49
172	Oxygen release kinetics and mechanism study on Cu-, Co-, Mn-based oxygen carrier. <i>Journal of Fuel Chemistry and Technology</i> , 2013, 41, 235-242.	2.0	13
173	Lattice Boltzmann method for simulations of gas-particle flows over a backward-facing step. <i>Journal of Computational Physics</i> , 2013, 239, 57-71.	3.8	30
174	Using the Sol-gel-Derived CuO/CuAl <sub>2</sub> O <sub>4</sub> Oxygen Carrier in Chemical Looping with Oxygen Uncoupling for Three Typical Coals. <i>Energy &amp; Fuels</i> , 2013, 27, 2723-2731.	5.1	44
175	Population Balance-Monte Carlo Simulation for Gas-to-Particle Synthesis of Nanoparticles. <i>Aerosol Science and Technology</i> , 2013, 47, 1125-1133.	3.1	29
176	Simulation and Exergy Analysis of a 600 MWe Oxy-Combustion Pulverized Coal-Fired Power Plant. , 2013, , 1195-1199.		3
177	Reactor Design, Cold-Model Experiment and CFD Modeling for Chemical Looping Combustion. , 2013, , 1209-1217.		2
178	Thermoeconomic cost analysis of a 600MWe oxy-combustion pulverized-coal-fired power plant. <i>International Journal of Greenhouse Gas Control</i> , 2012, 9, 469-483.	4.6	39
179	Chemical looping combustion of a Chinese anthracite with Fe <sub>2</sub> O <sub>3</sub> -based and CuO-based oxygen carriers. <i>Fuel Processing Technology</i> , 2012, 96, 104-115.	7.2	57
180	Thermoeconomic operation optimization of a coal-fired power plant. <i>Energy</i> , 2012, 42, 486-496.	8.8	69

#	ARTICLE	IF	CITATIONS
181	Numerical simulation of particle capture process of fibrous filters using Lattice Boltzmann two-phase flow model. Powder Technology, 2012, 227, 111-122.	4.2	76
182	Effect of Heating Rate on Chemical Looping Combustion of Coal with Fe <sub>2</sub> O <sub>3</sub> Oxygen Carrier. , 2011, , .		0
183	Investigation of Chemical Looping Combustion of Coal with CuFe <sub>2</sub> O <sub>4</sub> Oxygen Carrier. Energy & Fuels, 2011, 25, 3344-3354.	5.1	114
184	Simulation Study of an 800 MW <sub>e</sub> Oxy-combustion Pulverized-Coal-Fired Power Plant. Energy & Fuels, 2011, 25, 2405-2415.	5.1	73
185	Monte Carlo Simulation for Aggregative Mixing of Nanoparticles in Two-Component Systems. Industrial & Engineering Chemistry Research, 2011, 50, 10652-10664.	3.7	14
186	Exergy Analysis of a 600 MW <sub>e</sub> Oxy-combustion Pulverized-Coal-Fired Power Plant. Energy & Fuels, 2011, 25, 3854-3864.	5.1	64
187	Experimental and Simulated Investigation of Chemical Looping Combustion of Coal with Fe <sub>2</sub> O <sub>3</sub> based Oxygen Carrier. Procedia Engineering, 2011, 16, 390-395.	1.2	11
188	Two-component Brownian coagulation: Monte Carlo simulation and process characterization. Particuology, 2011, 9, 414-423.	3.6	16
189	TGA-FTIR investigation of the chemical looping combustion by coal with a CuO-Fe <sub>2</sub> O <sub>3</sub> combined oxygen carrier. , 2011, , .		2
190	Techno-economic evaluation of oxy-combustion coal-fired power plants. Science Bulletin, 2011, 56, 3333.	1.7	19
191	Simulated investigation of chemical looping combustion with coal-derived syngas and CaSO <sub>4</sub> oxygen carrier. Journal of Fuel Chemistry and Technology, 2011, 39, 251-257.	2.0	13
192	Mechanistic investigation of chemical looping combustion of coal with Fe <sub>2</sub> O <sub>3</sub> oxygen carrier. Fuel, 2011, 90, 2359-2366.	6.4	32
193	Characterization and evaluation of Fe <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> oxygen carrier prepared by sol-gel combustion synthesis. Journal of Analytical and Applied Pyrolysis, 2011, 91, 105-113.	5.5	76
194	Investigation of Chemical Looping Combustion of Coal with Fe <sub>2</sub> O <sub>3</sub> Oxygen Carrier. , 2011, , .		1
195	A differentially weighted Monte Carlo method for two-component coagulation. Journal of Computational Physics, 2010, 229, 6931-6945.	3.8	55
196	An economic feasibility study of O <sub>2</sub> /CO <sub>2</sub> recycle combustion technology based on existing coal-fired power plants in China. Fuel, 2009, 88, 1135-1142.	6.4	56
197	A new event-driven constant-volume method for solution of the time evolution of particle size distribution. Journal of Computational Physics, 2009, 228, 1412-1428.	3.8	46
198	Correcting the multi-Monte Carlo method for particle coagulation. Powder Technology, 2009, 193, 120-123.	4.2	28

#	ARTICLE	IF	CITATIONS
199	Reducing Statistical Noise and Extending the Size Spectrum by Applying Weighted Simulation Particles in Monte Carlo Simulation of Coagulation. <i>Aerosol Science and Technology</i> , 2009, 43, 781-793.	3.1	58
200	The event-driven constant volume method for particle coagulation dynamics. <i>Science in China Series D: Earth Sciences</i> , 2008, 51, 1255-1271.	0.9	3
201	NiO/NiAl <sub>2</sub> O <sub>4</sub> oxygen carriers prepared by sol-gel for chemical-looping combustion fueled by gas. <i>Journal of Fuel Chemistry and Technology</i> , 2008, 36, 261-266.	2.0	29
202	Modeling of Gravitational Wet Scrubbers with Electrostatic Enhancement. <i>Chemical Engineering and Technology</i> , 2008, 31, 1824-1837.	1.5	31
203	A stochastic simulation for the collection process of fly ashes in single-stage electrostatic precipitators. <i>Fuel</i> , 2008, 87, 2082-2089.	6.4	19
204	Sol-gel-Derived NiO/NiAl <sub>2</sub> O <sub>4</sub> Oxygen Carriers for Chemical-Looping Combustion by Coal Char. <i>Energy &amp; Fuels</i> , 2008, 22, 898-905.	5.1	88
205	Thermodynamic Investigation of Carbon Deposition and Sulfur Evolution in Chemical Looping Combustion with Syngas. <i>Energy &amp; Fuels</i> , 2008, 22, 1012-1020.	5.1	92
206	Analysis of four Monte Carlo methods for the solution of population balances in dispersed systems. <i>Powder Technology</i> , 2007, 173, 38-50.	4.2	122
207	Stochastic algorithm and numerical simulation for drop scavenging of aerosols. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2006, 27, 1321-1332.	3.6	9
208	Monte carlo simulation for simultaneous particle coagulation and deposition. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 222-237.	0.9	5
209	Monte Carlo solution of wet removal of aerosols by precipitation. <i>Atmospheric Environment</i> , 2006, 40, 1510-1525.	4.1	28
210	Multi-Monte Carlo method for coagulation and condensation/evaporation in dispersed systems. <i>Journal of Colloid and Interface Science</i> , 2005, 286, 195-208.	9.4	34
211	Multi-Monte Carlo method for particle coagulation: description and validation. <i>Applied Mathematics and Computation</i> , 2005, 167, 1383-1399.	2.2	20
212	Multi-monte-carlo method for general dynamic equation considering particle coagulation. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2005, 26, 953-962.	3.6	8