Bingtao Zhao

List of Publications by Year
in descending order

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46 papers	1,475 citations	471509 17 h-index	315739 38 g-index
46 all docs	46 docs citations	46 times ranked	1682 citing authors

#	Article	IF	Citations
1	Cyclone pressure drop reduction and its effect on gasâ€“particle separation capability: principle, performance, and assessment. Reviews in Chemical Engineering, 2022, 38, 1045-1063.	4.4	1
2	Insight into performance and mechanism of energy loss for microscale vortex separator/reactor with symmetrical multi-inlets. Powder Technology, 2022, 395, 122-132.	4.2	7
3	Process intensification of SO2/CO2 co-capture using microscale vortex flow contactor: Mass transfer behaviors, performance modeling, and flow simulation. Chemical Engineering Science, 2022, 250, 117385.	3.8	4
4	Process simulation, optimization and assessment of post-combustion carbon dioxide capture with piperazine-activated blended absorbents. Journal of Cleaner Production, 2021, 282, 124502.	9.3	13
5	Impact of gas impurities on the Hg0 oxidation on high iron and calcium coal ash for chemical looping combustion. Environmental Science and Pollution Research, 2021, 28, 46130-46146.	5.3	9
6	Emission characteristics and formation mechanisms of PM2.5 from co-firing of algal biomass and coal. Journal of the Energy Institute, 2021, 98, 354-362.	5.3	7
7	Gas-Particle Cyclonic Separation Dynamics: Modeling and Characterization. Separation and Purification Reviews, 2020, 49, 112-142.	5.5	15
8	Experimental Study on SCR-C₃H₆ Over Cuâ€“Fe/Al-PILC Catalysts: Catalytic Performance, Characterization, and Mechanism. Industrial & Engineering Chemistry Research, 2020, 59, 14776-14788.	3.7	13
9	Macro assessment of microalgae-based CO2 sequestration: Environmental and energy effects. Algal Research, 2020, 51, 102066.	4.6	21
10	Mercury Removal Based on Adsorption and Oxidation by Fly Ash: A Review. Energy & Fuels, 2020, 34, 11840-11866.	5.1	36
11	Wet flue gas desulfurization using micro vortex flow scrubber: Characteristics, modeling and simulation. Separation and Purification Technology, 2020, 247, 116915.	7.9	15
12	Emission and conversion of NO from algal biomass combustion in O2/CO2 atmosphere. Journal of Environmental Management, 2019, 250, 109419.	7.8	9
13	Flow Pattern and Pressure Drop for Small Longâ€Cylinder Cyclones Operating at High Flow Rates. Chemical Engineering and Technology, 2019, 42, 1960-1969.	1.5	7
14	Performance improvement of cyclone separator by integrated compact bends. Powder Technology, 2019, 353, 64-71.	4.2	16
15	Particle size cut performance of aerodynamic cyclone separators: Generalized modeling and characterization by correlating global cyclone dimensions. Journal of Aerosol Science, 2018, 120, 1-11.	3.8	10
16	Improved model control strategy with dynamic adaptation for heat exchangers in energy system. Numerical Heat Transfer; Part A: Applications, 2017, 72, 458-478.	2.1	3
17	SO2/NOx emissions and ash formation from algae biomass combustion: Process characteristics and mechanisms. Energy, 2016, 113, 821-830.	8.8	71
18	Process, performance and modeling of CO 2 capture by chemical absorption using high gravity: A review. Renewable and Sustainable Energy Reviews, 2016, 65, 44-56.	16.4	63

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19	Cyclone performances depend on multiple factors: comments on â€œA CFD study of the effect of cyclone size on its performance parametersâ€•by Mehdi Azadi et al. (2010). Journal of Hazardous Materials, 2016, 303, 174-176.	12.4	5
20	Evolution and comparative assessment of ambient air quality standards in China. Journal of Integrative Environmental Sciences, 2016, , 1-18.	2.5	22
21	Post-combustion CO2 capture with ammonia by vortex flow-based multistage spraying: Process intensification and performance characteristics. Energy, 2016, 102, 106-117.	8.8	32
22	Carbon dioxide fixation and biomass production from combustion flue gas using energy microalgae. Energy, 2015, 89, 347-357.	8.8	92
23	Publication-based survey for status of scientific research and impact on post-combustion CO 2 capture. International Journal of Greenhouse Gas Control, 2015, 32, 56-60.	4.6	2
24	Process effect of microalgal-carbon dioxide fixation and biomass production: A review. Renewable and Sustainable Energy Reviews, 2014, 31, 121-132.	16.4	340
25	Mass transfer performance of CO2 capture in rotating packed bed: Dimensionless modeling and intelligent prediction. Applied Energy, 2014, 136, 132-142.	10.1	61
26	Effect of reactor geometry on aqueous ammonia-based carbon dioxide capture in bubble column reactors. International Journal of Greenhouse Gas Control, 2013, 17, 481-487.	4.6	22
27	Advance in Post-Combustion CO2 Capture with Alkaline Solution: A Brief Review. Energy Procedia, 2012, 14, 1515-1522.	1.8	80
28	Prediction of Energy Microalgae Production under Flue Gas Using Response Surface Methodology. Energy Procedia, 2012, 16, 1066-1071.	1.8	3
29	Numerical Simulation of Gas and Liquid Flow within a Vortex Spray Tower. Energy Procedia, 2012, 16, 1072-1077.	1.8	9
30	Post-combustion CO2 capture by aqueous ammonia: A state-of-the-art review. International Journal of Greenhouse Gas Control, 2012, 9, 355-371.	4.6	146
31	Prediction of gas-particle separation efficiency for cyclones: A time-of-flight model. Separation and Purification Technology, 2012, 85, 171-177.	7.9	34
32	Effect of cultivation mode on microalgal growth and CO2 fixation. Chemical Engineering Research and Design, 2011, 89, 1758-1762.	5.6	51
33	Simulation of Turbulent Flow in Square Cyclone Separator with Different Gas Exhaust. Industrial & Engineering Chemistry Research, 2011, 50, 12162-12169.	3.7	17
34	Development of a Dimensionless Logistic Model for Predicting Cyclone Separation Efficiency. Aerosol Science and Technology, 2010, 44, 1105-1112.	3.1	13
35	Modeling mercury speciation in combustion flue gases using support vector machine: Prediction and evaluation. Journal of Hazardous Materials, 2010, 174, 244-250.	12.4	14
36	Pyrolysis of Waste Tire and Its Model. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	2

#	ARTICLE	IF	CITATIONS
37	CFD Simulation of High Temperature Air Combustion of Coal Gas at Different Air Straddle Angle. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	4
38	CO2 Emission Reduction from Power Plant Flue Gas by Micro-Algae: A Preliminary Study. , 2010, , .		2
39	Support Vector Machine-Based Prediction for Mercury Speciation in Combustion Flue Gases. , 2009, , .		0
40	Pyrolysis of Waste Tire Powder and Its Comparison with Shenhua Coal. , 2009, , .		3
41	Modeling of Low NOx Combustion of Coal Gas with High Temperature Air from a Multi-jet Burner. , 2009, , .		3
42	Modeling pressure drop coefficient for cyclone separators: A support vector machine approach. Chemical Engineering Science, 2009, 64, 4131-4136.	3.8	57
43	Simulation of mercury capture by sorbent injection using a simplified model. Journal of Hazardous Materials, 2009, 170, 1179-1185.	12.4	26
44	Numerical Simulation of Optic-pneumatic Combined Probe in On-line Measurement of Pulverized Coal. AIP Conference Proceedings, 2007, , .	0.4	0
45	Particle Collection Theory for Cyclone Separators: Summary and Comparison. Particle and Particle Systems Characterization, 2006, 23, 484-488.	2.3	8
46	Development of a symmetrical spiral inlet to improve cyclone separator performance. Powder Technology, 2004, 145, 47-50.	4.2	107