

# 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	Process effect of microalgal-carbon dioxide fixation and biomass production: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 31, 121-132.	16.4	340
2	Post-combustion CO <sub>2</sub> capture by aqueous ammonia: A state-of-the-art review. <i>International Journal of Greenhouse Gas Control</i> , 2012, 9, 355-371.	4.6	146
3	Development of a symmetrical spiral inlet to improve cyclone separator performance. <i>Powder Technology</i> , 2004, 145, 47-50.	4.2	107
4	Carbon dioxide fixation and biomass production from combustion flue gas using energy microalgae. <i>Energy</i> , 2015, 89, 347-357.	8.8	92
5	Advance in Post-Combustion CO <sub>2</sub> Capture with Alkaline Solution: A Brief Review. <i>Energy Procedia</i> , 2012, 14, 1515-1522.	1.8	80
6	SO <sub>2</sub> /NO <sub>x</sub> emissions and ash formation from algae biomass combustion: Process characteristics and mechanisms. <i>Energy</i> , 2016, 113, 821-830.	8.8	71
7	Process, performance and modeling of CO <sub>2</sub> capture by chemical absorption using high gravity: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 65, 44-56.	16.4	63
8	Mass transfer performance of CO <sub>2</sub> capture in rotating packed bed: Dimensionless modeling and intelligent prediction. <i>Applied Energy</i> , 2014, 136, 132-142.	10.1	61
9	Modeling pressure drop coefficient for cyclone separators: A support vector machine approach. <i>Chemical Engineering Science</i> , 2009, 64, 4131-4136.	3.8	57
10	Effect of cultivation mode on microalgal growth and CO <sub>2</sub> fixation. <i>Chemical Engineering Research and Design</i> , 2011, 89, 1758-1762.	5.6	51
11	Mercury Removal Based on Adsorption and Oxidation by Fly Ash: A Review. <i>Energy &amp; Fuels</i> , 2020, 34, 11840-11866.	5.1	36
12	Prediction of gas-particle separation efficiency for cyclones: A time-of-flight model. <i>Separation and Purification Technology</i> , 2012, 85, 171-177.	7.9	34
13	Post-combustion CO <sub>2</sub> capture with ammonia by vortex flow-based multistage spraying: Process intensification and performance characteristics. <i>Energy</i> , 2016, 102, 106-117.	8.8	32
14	Simulation of mercury capture by sorbent injection using a simplified model. <i>Journal of Hazardous Materials</i> , 2009, 170, 1179-1185.	12.4	26
15	Effect of reactor geometry on aqueous ammonia-based carbon dioxide capture in bubble column reactors. <i>International Journal of Greenhouse Gas Control</i> , 2013, 17, 481-487.	4.6	22
16	Evolution and comparative assessment of ambient air quality standards in China. <i>Journal of Integrative Environmental Sciences</i> , 2016, , 1-18.	2.5	22
17	Macro assessment of microalgae-based CO <sub>2</sub> sequestration: Environmental and energy effects. <i>Algal Research</i> , 2020, 51, 102066.	4.6	21
18	Simulation of Turbulent Flow in Square Cyclone Separator with Different Gas Exhaust. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 12162-12169.	3.7	17

#	ARTICLE	IF	CITATIONS
19	Performance improvement of cyclone separator by integrated compact bends. Powder Technology, 2019, 353, 64-71.	4.2	16
20	Gas-Particle Cyclonic Separation Dynamics: Modeling and Characterization. Separation and Purification Reviews, 2020, 49, 112-142.	5.5	15
21	Wet flue gas desulfurization using micro vortex flow scrubber: Characteristics, modeling and simulation. Separation and Purification Technology, 2020, 247, 116915.	7.9	15
22	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
23	Development of a Dimensionless Logistic Model for Predicting Cyclone Separation Efficiency. Aerosol Science and Technology, 2010, 44, 1105-1112.	3.1	13
24	Experimental Study on SCR-C <sub>3</sub> H <sub>6</sub> Over Cu <sup>2+</sup> /Fe/Al-PILC Catalysts: Catalytic Performance, Characterization, and Mechanism. Industrial & Engineering Chemistry Research, 2020, 59, 14776-14788.	3.7	13
25	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
26	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
27	Numerical Simulation of Gas and Liquid Flow within a Vortex Spray Tower. Energy Procedia, 2012, 16, 1072-1077.	1.8	9
28	Emission and conversion of NO from algal biomass combustion in O <sub>2</sub> /CO <sub>2</sub> atmosphere. Journal of Environmental Management, 2019, 250, 109419.	7.8	9
29	Impact of gas impurities on the Hg <sup>0</sup> oxidation on high iron and calcium coal ash for chemical looping combustion. Environmental Science and Pollution Research, 2021, 28, 46130-46146.	5.3	9
30	Particle Collection Theory for Cyclone Separators: Summary and Comparison. Particle and Particle Systems Characterization, 2006, 23, 484-488.	2.3	8
31	Flow Pattern and Pressure Drop for Small Long-Cylinder Cyclones Operating at High Flow Rates. Chemical Engineering and Technology, 2019, 42, 1960-1969.	1.5	7
32	Emission characteristics and formation mechanisms of PM <sub>2.5</sub> from co-firing of algal biomass and coal. Journal of the Energy Institute, 2021, 98, 354-362.	5.3	7
33	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
34	Cyclone performances depend on multiple factors: comments on "A CFD study of the effect of cyclone size on its performance parameters" by Mehdi Azadi et al. (2010). Journal of Hazardous Materials, 2016, 303, 174-176.	12.4	5
35	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
36	Process intensification of SO <sub>2</sub> /CO <sub>2</sub> co-capture using microscale vortex flow contactor: Mass transfer behaviors, performance modeling, and flow simulation. Chemical Engineering Science, 2022, 250, 117385.	3.8	4

#	ARTICLE	IF	CITATIONS
37	Pyrolysis of Waste Tire Powder and Its Comparison with Shenhua Coal. , 2009, , .		3
38	Modeling of Low NOx Combustion of Coal Gas with High Temperature Air from a Multi-jet Burner. , 2009, , .		3
39	Prediction of Energy Microalgae Production under Flue Gas Using Response Surface Methodology. Energy Procedia, 2012, 16, 1066-1071.	1.8	3
40	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
41	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
42	CO2 Emission Reduction from Power Plant Flue Gas by Micro-Algae: A Preliminary Study. , 2010, , .		2
43	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
44	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
45	Numerical Simulation of Optic-pneumatic Combined Probe in On-line Measurement of Pulverized Coal. AIP Conference Proceedings, 2007, , .	0.4	0
46	Support Vector Machine-Based Prediction for Mercury Speciation in Combustion Flue Gases. , 2009, , .		0