Kaiwei Chu

List of Publications by Year
in descending order

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46 papers	3,156 citations	201385 27 h-index	288905 40 g-index
46 all docs	46 docs citations	46 times ranked	1570 citing authors

#	Article	IF	Citations
1	Prediction of medium-to-coal ratio effect in a dense medium cyclone by using both traditional and coarse-grained CFD-DEM models. Particuology, 2022, 68, 44-56.	2.0	5
2	Coarse-grained CFD-DEM study of Gas-solid flow in gas cyclone. Chemical Engineering Science, 2022, 260, 117906.	1.9	24
3	How Particles with Sizes Close to Cut Size Affect the Multiphase Flows and Performance of Hydrocyclones. Industrial & Engineering Chemistry Research, 2021, 60, 18477-18489.	1.8	3
4	Computational Study of Gas-Solid Flow in a Horizontal Stepped Pipeline. Mathematical Problems in Engineering, 2019, 2019, 1-15.	0.6	3
5	Prediction of separation performance of hydrocyclones by a PC-based model. Separation and Purification Technology, 2019, 211, 141-150.	3.9	31
6	Modeling the Multiphase Flow in Hydrocyclones Using the Coarse-Grained Volume of Fluidâ€"Discrete Element Method and Mixture-Discrete Element Method Approaches. Industrial & Engineering Chemistry Research, 2018, 57, 9641-9655.	1.8	41
7	Systematic study of the effect of particle density distribution on the flow and performance of a dense medium cyclone. Powder Technology, 2017, 314, 510-523.	2.1	24
8	Understand solids loading effects in a dense medium cyclone: Effect of particle size by a CFD-DEM method. Powder Technology, 2017, 320, 594-609.	2.1	50
9	Numerical studies of multiphase flow and separation performance of natural medium cyclones for recovering waste coal. Powder Technology, 2017, 314, 532-541.	2.1	41
10	A coupled FEM/DEM model for pipe conveyor systems: Analysis of the contact forces on belt. Powder Technology, 2017, 314, 480-489.	2.1	29
11	3D particle-scale modeling of gasâ€"solids flow and heat transfer in fluidized beds with an immersed tube. International Journal of Heat and Mass Transfer, 2016, 97, 521-537.	2.5	62
12	Applicability of a coarse-grained CFDâ€"DEM model on dense medium cyclone. Minerals Engineering, 2016, 90, 43-54.	1.8	150
13	Systematic study of effect of particle size distribution in a dense medium cyclone by Johnsonâ€™s SB function. Minerals Engineering, 2016, 91, 16-33.	1.8	20
14	Editorial on the special issue â€" Mineral processing in Australia and China. International Journal of Mineral Processing, 2015, 142, 1.	2.6	0
15	Prediction of wear and its effect on the multiphase flow and separation performance of dense medium cyclone. Minerals Engineering, 2014, 56, 91-101.	1.8	53
16	Numerical and experimental investigation of an â€œS-shapedâ€•circulating fluidized bed. Powder Technology, 2014, 254, 460-469.	2.1	10
17	Computational investigation of the mechanisms of the â€œbreakawayâ€•effect in a dense medium cyclone. Minerals Engineering, 2014, 62, 111-119.	1.8	14
18	How to optimize design and operation of dense medium cyclones in coal preparation. Minerals Engineering, 2014, 62, 55-65.	1.8	18

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19	Particle scale modelling of the multiphase flow in a dense medium cyclone: Effect of near gravity material. , 2013, , .		2
20	Effect of cohesive force on the formation of a sandpile. AIP Conference Proceedings, 2013, , .	0.3	4
21	Discrete particle simulation of heat transfer in pressurized fluidized bed with immersed cylinders. , 2013, , .		0
22	Particle scale modelling of the multiphase flow in a dense medium cyclone: Effect of medium-to-coal ratio. , 2013, , .		0
23	Particle scale modelling of the multiphase flow in a dense medium cyclone: Effect of fluctuation of solids flowrate. Minerals Engineering, 2012, 33, 34-45.	1.8	39
24	Computational study of the multiphase flow in a dense medium cyclone: Effect of particle density. Chemical Engineering Science, 2012, 73, 123-139.	1.9	53
25	Prediction of the performance of dense medium cyclones in coal preparation. Minerals Engineering, 2012, 31, 59-70.	1.8	47
26	Particle scale modelling of the multiphase flow in a dense medium cyclone: Effect of vortex finder outlet pressure. Minerals Engineering, 2012, 31, 46-58.	1.8	30
27	Numerical study of liquidâ€“gasâ€“solid flow in classifying hydrocyclones: Effect of feed solids concentration. Minerals Engineering, 2012, 31, 17-31.	1.8	112
28	Computational study of the multiphase flow and performance of dense medium cyclones: Effect of body dimensions. Minerals Engineering, 2011, 24, 19-34.	1.8	30
29	CFDâ€“DEM simulation of the gasâ€“solid flow in a cyclone separator. Chemical Engineering Science, 2011, 66, 834-847.	1.9	244
30	Modelling the Multiphase Flow in Dense Medium Cyclones. Journal of Computational Multiphase Flows, 2010, 2, 249-272.	0.8	8
31	Numerical study of the effects of particle size and polydispersity on the agglomerate dispersion in a cyclonic flow. Chemical Engineering Journal, 2010, 164, 432-441.	6.6	77
32	Discrete particle simulation of particleâ€“fluid flow: model formulations and their applicability. Journal of Fluid Mechanics, 2010, 661, 482-510.	1.4	605
33	Numerical study of the effect of vortex finder configuration in dense medium cyclones. , 2010, , .		0
34	Discrete Particle Simulation of Gas-solid Flow in a Cyclone Separator. , 2010, , .		0
35	A numerical model for the liquid flow in a sputnik coal distributor. Minerals Engineering, 2009, 22, 78-87.	1.8	4
36	Numerical studies of the effects of medium properties in dense medium cyclone operations. Minerals Engineering, 2009, 22, 931-943.	1.8	28

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37	CFDâ€“DEM study of the effect of particle density distribution on the multiphase flow and performance of dense medium cyclone. Minerals Engineering, 2009, 22, 893-909.	1.8	103
38	CFD-DEM modelling of multiphase flow in dense medium cyclones. Powder Technology, 2009, 193, 235-247.	2.1	225
39	Modeling the Multiphase Flow in a Dense Medium Cyclone. Industrial & Engineering Chemistry Research, 2009, 48, 3628-3639.	1.8	61
40	Numerical simulation of complex particleâ€“fluid flows. Powder Technology, 2008, 179, 104-114.	2.1	195
41	A CFDâ€“DEM study of the cluster behavior in riser and downer reactors. Powder Technology, 2008, 184, 151-165.	2.1	97
42	Simulation of liquidâ€“solid flow in a coal distributor. Minerals Engineering, 2008, 21, 789-796.	1.8	18
43	Computational Investigation of Horizontal Slug Flow in Pneumatic Conveying. Industrial & Engineering Chemistry Research, 2008, 47, 470-480.	1.8	109
44	Numerical Simulation of the Gasâˆ’Solid Flow in Three-Dimensional Pneumatic Conveying Bends. Industrial & Engineering Chemistry Research, 2008, 47, 7058-7071.	1.8	71
45	Numerical Study of Particleâˆ’Fluid Flow in a Hydrocyclone. Industrial & Engineering Chemistry Research, 2007, 46, 4695-4705.	1.8	131
46	Numerical study of gasâ€“solid flow in a cyclone separator. Applied Mathematical Modelling, 2006, 30, 1326-1342.	2.2	285