

# 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	Discrete particle simulation of particle–fluid flow: model formulations and their applicability. <i>Journal of Fluid Mechanics</i> , 2010, 661, 482-510.	1.4	605
2	Numerical study of gas–solid flow in a cyclone separator. <i>Applied Mathematical Modelling</i> , 2006, 30, 1326-1342.	2.2	285
3	CFD–DEM simulation of the gas–solid flow in a cyclone separator. <i>Chemical Engineering Science</i> , 2011, 66, 834-847.	1.9	244
4	CFD-DEM modelling of multiphase flow in dense medium cyclones. <i>Powder Technology</i> , 2009, 193, 235-247.	2.1	225
5	Numerical simulation of complex particle–fluid flows. <i>Powder Technology</i> , 2008, 179, 104-114.	2.1	195
6	Applicability of a coarse-grained CFD–DEM model on dense medium cyclone. <i>Minerals Engineering</i> , 2016, 90, 43-54.	1.8	150
7	Numerical Study of Particle–Fluid Flow in a Hydrocyclone. <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 4695-4705.	1.8	131
8	Numerical study of liquid–gas–solid flow in classifying hydrocyclones: Effect of feed solids concentration. <i>Minerals Engineering</i> , 2012, 31, 17-31.	1.8	112
9	Computational Investigation of Horizontal Slug Flow in Pneumatic Conveying. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 470-480.	1.8	109
10	CFD–DEM study of the effect of particle density distribution on the multiphase flow and performance of dense medium cyclone. <i>Minerals Engineering</i> , 2009, 22, 893-909.	1.8	103
11	A CFD–DEM study of the cluster behavior in riser and downer reactors. <i>Powder Technology</i> , 2008, 184, 151-165.	2.1	97
12	Numerical study of the effects of particle size and polydispersity on the agglomerate dispersion in a cyclonic flow. <i>Chemical Engineering Journal</i> , 2010, 164, 432-441.	6.6	77
13	Numerical Simulation of the Gas–Solid Flow in Three-Dimensional Pneumatic Conveying Bends. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 7058-7071.	1.8	71
14	3D particle-scale modeling of gas–solids flow and heat transfer in fluidized beds with an immersed tube. <i>International Journal of Heat and Mass Transfer</i> , 2016, 97, 521-537.	2.5	62
15	Modeling the Multiphase Flow in a Dense Medium Cyclone. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 3628-3639.	1.8	61
16	Computational study of the multiphase flow in a dense medium cyclone: Effect of particle density. <i>Chemical Engineering Science</i> , 2012, 73, 123-139.	1.9	53
17	Prediction of wear and its effect on the multiphase flow and separation performance of dense medium cyclone. <i>Minerals Engineering</i> , 2014, 56, 91-101.	1.8	53
18	Understand solids loading effects in a dense medium cyclone: Effect of particle size by a CFD-DEM method. <i>Powder Technology</i> , 2017, 320, 594-609.	2.1	50

#	ARTICLE	IF	CITATIONS
19	Prediction of the performance of dense medium cyclones in coal preparation. Minerals Engineering, 2012, 31, 59-70.	1.8	47
20	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
21	Modeling the Multiphase Flow in Hydrocyclones Using the Coarse-Grained Volume of Fluid "Discrete Element Method and Mixture-Discrete Element Method Approaches. Industrial & Engineering Chemistry Research, 2018, 57, 9641-9655.	1.8	41
22	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
23	Prediction of separation performance of hydrocyclones by a PC-based model. Separation and Purification Technology, 2019, 211, 141-150.	3.9	31
24	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
25	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
26	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
27	Numerical studies of the effects of medium properties in dense medium cyclone operations. Minerals Engineering, 2009, 22, 931-943.	1.8	28
28	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
29	Coarse-grained CFD-DEM study of Gas-solid flow in gas cyclone. Chemical Engineering Science, 2022, 260, 117906.	1.9	24
30	Systematic study of effect of particle size distribution in a dense medium cyclone by Johnson's SB function. Minerals Engineering, 2016, 91, 16-33.	1.8	20
31	Simulation of liquid-solid flow in a coal distributor. Minerals Engineering, 2008, 21, 789-796.	1.8	18
32	How to optimize design and operation of dense medium cyclones in coal preparation. Minerals Engineering, 2014, 62, 55-65.	1.8	18
33	Computational investigation of the mechanisms of the "breakaway" effect in a dense medium cyclone. Minerals Engineering, 2014, 62, 111-119.	1.8	14
34	Numerical and experimental investigation of an "S-shaped" circulating fluidized bed. Powder Technology, 2014, 254, 460-469.	2.1	10
35	Modelling the Multiphase Flow in Dense Medium Cyclones. Journal of Computational Multiphase Flows, 2010, 2, 249-272.	0.8	8
36	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

#	ARTICLE	IF	CITATIONS
37	A numerical model for the liquid flow in a sputnik coal distributor. Minerals Engineering, 2009, 22, 78-87.	1.8	4
38	Effect of cohesive force on the formation of a sandpile. AIP Conference Proceedings, 2013, , .	0.3	4
39	Computational Study of Gas-Solid Flow in a Horizontal Stepped Pipeline. Mathematical Problems in Engineering, 2019, 2019, 1-15.	0.6	3
40	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
41	Particle scale modelling of the multiphase flow in a dense medium cyclone: Effect of near gravity material. , 2013, , .		2
42	Numerical study of the effect of vortex finder configuration in dense medium cyclones. , 2010, , .		0
43	Discrete Particle Simulation of Gas-solid Flow in a Cyclone Separator. , 2010, , .		0
44	Discrete particle simulation of heat transfer in pressurized fluidized bed with immersed cylinders. , 2013, , .		0
45	Particle scale modelling of the multiphase flow in a dense medium cyclone: Effect of medium-to-coal ratio. , 2013, , .		0
46	Editorial on the special issue "Mineral processing in Australia and China. International Journal of Mineral Processing, 2015, 142, 1.	2.6	0