William D Fullmer

List of Publications by Year
in descending order

36 papers	469 citations	933447 10 h-index	713466 21 g-index
39 all docs	39 docs citations	39 times ranked	327 citing authors

#	Article	IF	Citations
1	The divergence of nearby trajectories in soft-sphere DEM. Particuology, 2022, 63, 1-8.	3.6	0
2	Toward reducing uncertainty quantification costs in DEM models of particulate flow: Testing simple, sensitivity-based, forward uncertainty propagation techniques. Powder Technology, 2022, 398, 117136.	4.2	1
3	Very smallâ€scale, segregatingâ€fluidizedâ€bed experiments: A dataset for <scp>CFDâ€DEM</scp> validation and uncertainty quantification. AICHE Journal, 2022, 68, .	3.6	4
4	Critical analysis of velocimetry methods for particulate flows from synthetic data. Chemical Engineering Journal, 2021, 415, 129032.	12.7	3
5	CFD-DEM study of bubble properties in a cylindrical fluidized bed of Geldart Group D particles and comparison with prior MRI data. Powder Technology, 2021, 389, 75-84.	4.2	8
6	Comparison of velocimetry methods for horizontal air jets in a semicircular fluidized bed of Geldart Group D particles. Powder Technology, 2020, 359, 323-330.	4.2	9
7	Preliminary study on the influence of in situ filter size in CFD-DEM transfer kernel. Particuology, 2020, 51, 205-209.	3.6	1
8	Chaos in wavy-stratified fluid-fluid flow. Chaos, 2019, 29, 033121.	2.5	9
9	Experimental data for code validation: Horizontal air jets in a semicircular fluidized bed of Geldart Group D particles. AICHE Journal, 2018, 64, 2351-2363.	3.6	7
10	Continuum prediction of scale-dependent, anisotropic fluctuating kinetic energy in gas-solid flows. Chemical Engineering Science, 2018, 186, 84-87.	3.8	13
11	CFD-DEM solution verification: Fixed-bed studies. Powder Technology, 2018, 339, 760-764.	4.2	21
12	Are continuum predictions of clustering chaotic?. Chaos, 2017, 27, 031101.	2.5	6
13	Clustering instabilities in sedimenting fluidâ€"solid systems: critical assessment of kinetic-theory-based predictions using direct numerical simulation data. Journal of Fluid Mechanics, 2017, 823, 433-469.	3.4	50
14	Two-Fluid Model Stability, Simulation and Chaos. , 2017, , .		22
15	The Clustering Instability in Rapid Granular and Gas-Solid Flows. Annual Review of Fluid Mechanics, 2017, 49, 485-510.	25.0	116
16	The Homogeneous Cooling State as a Verification Test for Kinetic Theory-Based Continuum Models of Gasâ€"Solid Flows. Journal of Verification, Validation and Uncertainty Quantification, 2017, 2, .	0.4	3
17	RELAP5 Two-Fluid Model. , 2017, , 225-245.		1
18	Fixed-Flux Model. , 2017, , 141-162.		0

#	Article	IF	Citations
19	Fixed-Flux Model Chaos. , 2017, , 107-137.		0
20	Fixed-Flux Model. , 2017, , 11-63.		0
21	Effect of Collision Force on Well-Posedness and Stability of the Two-Fluid Model for Vertical Bubbly Flows. Nuclear Science and Engineering, 2016, 184, 353-362.	1.1	8
22	Stability Analysis of Chaotic Wavy Stratified Fluid-Fluid Flow With the 1D Fixed-Flux Two-Fluid Model. , 2016, , .		1
23	Quantitative assessment of fine‐grid kinetic‐theory‐based predictions of mean‐slip in unbounded fluidization. AICHE Journal, 2016, 62, 11-17.	3.6	72
24	Validation of RELAP5/MOD3.3 for subcooled boiling, flashing and condensation in a vertical annulus. Progress in Nuclear Energy, 2016, 93, 205-217.	2.9	19
25	Transport coefficients of solid particles immersed in a viscous gas. Physical Review E, 2016, 93, 012905.	2.1	12
26	One-dimensional two-fluid model for wavy flow beyond the Kelvin–Helmholtz instability: Limit cycles and chaos. Nuclear Engineering and Design, 2016, 310, 656-663.	1.7	5
27	An Assessment of the Virtual Mass Force in RELAP5/MOD3.3 for the Bubbly Flow Regime. Nuclear Technology, 2015, 191, 185-192.	1.2	5
28	Numerical Solution of Wavy-Stratified Fluid-Fluid Flow With the One-Dimensional Two-Fluid Model: Stability, Boundedness, Convergence and Chaos. , 2014, , .		2
29	Analysis of stability, verification and chaos with the Kreiss–Yström equations. Applied Mathematics and Computation, 2014, 248, 28-46.	2.2	11
30	Linear and nonlinear analysis of an unstable, but well-posed, one-dimensional two-fluid model for two-phase flow based on the inviscid Kelvin–Helmholtz instability. Nuclear Engineering and Design, 2014, 268, 173-184.	1.7	26
31	An Artificial Viscosity for the Ill-Posed One-Dimensional Incompressible Two-Fluid Model. Nuclear Technology, 2014, 185, 296-308.	1.2	10
32	Two Equation Two-Fluid Model Analysis for Stratified Flow Under Kinematic and Dynamic Instabilities. , 2013, , .		0
33	Verification of a Higher-Order Finite Difference Scheme for the One-Dimensional Two-Fluid Model. Journal of Computational Multiphase Flows, 2013, 5, 139-155.	0.8	9
34	ONE-DIMENSIONAL TWO-EQUATION TWO-FLUID MODEL STABILITY. Multiphase Science and Technology, 2013, 25, 133-167.	0.5	12
35	Application of a Second Order Shock Capturing Scheme to the Solution of the Water Faucet Problem With a 1D Two-Fluid Model. , 2012, , .		0
36	Experimental Validation of RELAP5 and TRACE5 for Licensing Studies of the Boron Injection System of Atucha II. Science and Technology of Nuclear Installations, 2011, 2011, 1-12.	0.8	2