

Jeffrey S Marshall

List of Publications by Year in descending order

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29
papers

695
citations

687363

13
h-index

610901

24
g-index

30
all docs

30
docs citations

30
times ranked

546
citing authors

#	ARTICLE	IF	CITATIONS
1	Adhesive particulate flow: The discrete-element method and its application in energy and environmental engineering. <i>Progress in Energy and Combustion Science</i> , 2011, 37, 633-668.	31.2	211
2	Exponential scaling in early-stage agglomeration of adhesive particles in turbulence. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	45
3	Collision and breakup of fractal particle agglomerates in a shear flow. <i>Journal of Fluid Mechanics</i> , 2019, 862, 592-623.	3.4	31
4	On the significance of two-way coupling in simulation of turbulent particle agglomeration. <i>Powder Technology</i> , 2017, 318, 83-94.	4.2	26
5	Modeling and sensitivity analysis of particle impact with a wall with integrated damping mechanisms. <i>Powder Technology</i> , 2018, 339, 17-24.	4.2	26
6	Effects of acoustic streaming from moderate-intensity pulsed ultrasound for enhancing biofilm mitigation effectiveness of drug-loaded liposomes. <i>Journal of the Acoustical Society of America</i> , 2015, 138, 1043-1051.	1.1	24
7	Simulation of Particle Separation on an Inclined Electric Curtain. <i>IEEE Transactions on Industry Applications</i> , 2013, 49, 1104-1112.	4.9	22
8	Acoustic streaming, fluid mixing, and particle transport by a Gaussian ultrasound beam in a cylindrical container. <i>Physics of Fluids</i> , 2015, 27, .	4.0	20
9	Mechanics of biofilms formed of bacteria with fimbriae appendages. <i>PLoS ONE</i> , 2020, 15, e0243280.	2.5	20
10	Measurement of ultrasound-enhanced diffusion coefficient of nanoparticles in an agarose hydrogel. <i>Journal of the Acoustical Society of America</i> , 2018, 144, 3496-3502.	1.1	18
11	Capillary effects on a particle rolling on a plane surface in the presence of a thin liquid film. <i>Experiments in Fluids</i> , 2011, 51, 1645-1655.	2.4	16
12	Capillary torque on a rolling particle in the presence of a liquid film at small capillary numbers. <i>Chemical Engineering Science</i> , 2014, 108, 87-93.	3.8	16
13	An accelerated stochastic vortex structure method for particle collision and agglomeration in homogeneous turbulence. <i>Physics of Fluids</i> , 2016, 28, .	4.0	15
14	Particle segregation in falling polydisperse suspension droplets. <i>Journal of Fluid Mechanics</i> , 2015, 769, 79-102.	3.4	12
15	Acoustic streaming and thermal instability of flow generated by ultrasound in a cylindrical container. <i>Physics of Fluids</i> , 2016, 28, .	4.0	12
16	Sensitivity of incipient particle motion to fluid flow penetration depth within a packed bed. <i>Sedimentology</i> , 2010, 57, 418-428.	3.1	11
17	Simulation of particulate fouling at a microchannel entrance region. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 253-265.	2.2	11
18	Hybrid Model of Bacterial Biofilm Growth. <i>Bulletin of Mathematical Biology</i> , 2020, 82, 27.	1.9	11

#	ARTICLE	IF	CITATIONS
19	Vorticity reconnection during vortex cutting by a blade. <i>Journal of Fluid Mechanics</i> , 2015, 782, 37-62.	3.4	9
20	A model of ultrasound-enhanced diffusion in a biofilm. <i>Journal of the Acoustical Society of America</i> , 2016, 139, EL228-EL233.	1.1	9
21	Transient lift force on a blade during cutting of a vortex with non-zero axial flow. <i>Journal of Fluid Mechanics</i> , 2017, 819, 258-284.	3.4	6
22	Influence of cell interaction forces on growth of bacterial biofilms. <i>Physics of Fluids</i> , 2020, 32, .	4.0	6
23	Nonlinear dynamics of particles excited by an electric curtain. <i>Journal of Applied Physics</i> , 2013, 114, 154907.	2.5	5
24	Statistics of particle diffusion subject to oscillatory flow in a porous bed. <i>Chemical Engineering Science</i> , 2021, 231, 116239.	3.8	4
25	Droplet Impingement on a Surface at Low Reynolds Numbers. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2021, 143, .	1.5	3
26	Stochastic model of oscillatory diffusion for colloidal particles in a fixed porous bed. <i>Chemical Engineering Science</i> , 2021, 246, 116993.	3.8	2
27	Long-range interacting pendula: A simple model for understanding complex dynamics of charged particles in an electronic curtain device. <i>Journal of Applied Physics</i> , 2017, 121, 154501.	2.5	1
28	The effect of timescales on wind farm power variability with nonlinear model predictive control. <i>Wind Energy</i> , 2017, 20, 1891-1908.	4.2	1
29	EFFECTIVENESS OF OPINION INFLUENCE APPROACHES IN HIGHLY CLUSTERED ONLINE SOCIAL NETWORKS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2014, 17, 1450008.	1.4	0