

Goodarz Ahmadi

List of Publications by Year in descending order

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700
papers

18,746
citations

18482
62
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28297
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all docs

709
docs citations

709
times ranked

10243
citing authors

#	ARTICLE	IF	CITATIONS
1	Dispersion and Deposition of Spherical Particles from Point Sources in a Turbulent Channel Flow. <i>Aerosol Science and Technology</i> , 1992, 16, 209-226.	3.1	777
2	Recent advances in modeling and simulation of nanofluid flows-Part I: Fundamentals and theory. <i>Physics Reports</i> , 2019, 790, 1-48.	25.6	670
3	Recent advances in modeling and simulation of nanofluid flowsâ€”Part II: Applications. <i>Physics Reports</i> , 2019, 791, 1-59.	25.6	389
4	Brownian diffusion of submicrometer particles in the viscous sublayer. <i>Journal of Colloid and Interface Science</i> , 1991, 143, 266-277.	9.4	316
5	Particle deposition in turbulent duct flowsâ€”comparisons of different model predictions. <i>Journal of Aerosol Science</i> , 2007, 38, 377-397.	3.8	309
6	Graphene nanoplateletsâ€”silver hybrid nanofluids for enhanced heat transfer. <i>Energy Conversion and Management</i> , 2015, 100, 419-428.	9.2	273
7	Investigation of nanofluid mixed convection in a shallow cavity using a two-phase mixture model. <i>International Journal of Thermal Sciences</i> , 2014, 75, 204-220.	4.9	263
8	Natural gas production from hydrate decomposition by depressurization. <i>Chemical Engineering Science</i> , 2001, 56, 5801-5814.	3.8	226
9	On particle adhesion and removal mechanisms in turbulent flows. <i>Journal of Adhesion Science and Technology</i> , 1994, 8, 763-785.	2.6	220
10	An experimental study on thermal conductivity and viscosity of nanofluids containing carbon nanotubes. <i>Nanoscale Research Letters</i> , 2014, 9, 151.	5.7	195
11	A sublayer model for turbulent deposition of particles in vertical ducts with smooth and rough surfaces. <i>Journal of Aerosol Science</i> , 1993, 24, 45-64.	3.8	181
12	Ellipsoidal particles transport and deposition in turbulent channel flows. <i>International Journal of Multiphase Flow</i> , 2001, 27, 971-1009.	3.4	166
13	A review on liquid-phase exfoliation for scalable production of pure graphene, wrinkled, crumpled and functionalized graphene and challenges. <i>FlatChem</i> , 2018, 8, 40-71.	5.6	154
14	Recent advances in using nanofluids in renewable energy systems and the environmental implications of their uptake. <i>Nano Energy</i> , 2021, 86, 106069.	16.0	149
15	Aerosol particle transport and deposition in vertical and horizontal turbulent duct flows. <i>Journal of Fluid Mechanics</i> , 2000, 406, 55-80.	3.4	147
16	Deposition of aerosols on surfaces in a turbulent channel flow. <i>International Journal of Engineering Science</i> , 1993, 31, 435-451.	5.0	137
17	Host-to-host airborne transmission as a multiphase flow problem for science-based social distance guidelines. <i>International Journal of Multiphase Flow</i> , 2020, 132, 103439.	3.4	137
18	Particle Deposition with Thermophoresis in Laminar and Turbulent Duct Flows. <i>Aerosol Science and Technology</i> , 1998, 29, 525-546.	3.1	131

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19	Airflow and Deposition of Nano-Particles in a Human Nasal Cavity. <i>Aerosol Science and Technology</i> , 2006, 40, 463-476.	3.1	131
20	An equation of state for dense rigid sphere gases. <i>Journal of Chemical Physics</i> , 1986, 84, 3449-3450.	3.0	129
21	Stochastic optimal preview control of a vehicle suspension. <i>Journal of Sound and Vibration</i> , 2004, 275, 973-990.	3.9	127
22	Numerical study of heat transfer performance of single-phase heat sinks with micro pin-fin structures. <i>Applied Thermal Engineering</i> , 2013, 58, 68-76.	6.0	127
23	Computational modeling of methane hydrate dissociation in a sandstone core. <i>Chemical Engineering Science</i> , 2007, 62, 6155-6177.	3.8	125
24	Performance dependence of thermosyphon on the functionalization approaches: An experimental study on thermo-physical properties of graphene nanoplatelet-based water nanofluids. <i>Energy Conversion and Management</i> , 2015, 92, 322-330.	9.2	123
25	Numerical solution for natural gas production from methane hydrate dissociation. <i>Journal of Petroleum Science and Engineering</i> , 2004, 41, 269-285.	4.2	118
26	A thermodynamical formulation for dispersed multiphase turbulent flowsâ€”1. <i>International Journal of Multiphase Flow</i> , 1990, 16, 323-340.	3.4	114
27	A Model for Mechanical Wear and Abrasive Particle Adhesion during the Chemical Mechanical Polishing Process. <i>Journal of the Electrochemical Society</i> , 2001, 148, G99.	2.9	114
28	Gas-particle two-phase turbulent flow in a vertical duct. <i>International Journal of Multiphase Flow</i> , 1995, 21, 1203-1228.	3.4	111
29	PARTICLE DEPOSITION IN A NEARLY DEVELOPED TURBULENT DUCT FLOW WITH ELECTROPHORESIS. <i>Journal of Aerosol Science</i> , 1999, 30, 739-758.	3.8	109
30	Development of empirical models with high accuracy for estimation of drag coefficient of flow around a smooth sphere: An evolutionary approach. <i>Powder Technology</i> , 2014, 257, 11-19.	4.2	109
31	Production of natural gas from methane hydrate by a constant downhole pressure well. <i>Energy Conversion and Management</i> , 2007, 48, 2053-2068.	9.2	108
32	Computational modeling of effects of thermal plume adjacent to the body on the indoor airflow and particle transport. <i>Journal of Aerosol Science</i> , 2012, 53, 29-39.	3.8	107
33	Aerosol particle deposition in an obstructed turbulent duct flow. <i>Journal of Aerosol Science</i> , 1994, 25, 91-112.	3.8	103
34	Particle Adhesion and Removal in Chemical Mechanical Polishing and Postâ€”CMP Cleaning. <i>Journal of the Electrochemical Society</i> , 1999, 146, 2665-2669.	2.9	103
35	Analytical investigation on acceleration motion of a vertically falling spherical particle in incompressible Newtonian media. <i>Advanced Powder Technology</i> , 2010, 21, 298-304.	4.1	103
36	Crossover from capillary fingering to viscous fingering for immiscible unstable flow: Experiment and modeling. <i>Physical Review E</i> , 2004, 70, 016303.	2.1	101

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37	A new friction factor correlation for laminar, single-phase flows through rock fractures. Journal of Hydrology, 2006, 329, 315-328.	5.4	101
38	Nonstationary Kanai-Tajimi models for El Centro 1940 and Mexico City 1985 earthquakes. Probabilistic Engineering Mechanics, 1990, 5, 171-181.	2.7	99
39	Brownian particle deposition in a directly simulated turbulent channel flow. Physics of Fluids A, Fluid Dynamics, 1993, 5, 1427-1432.	1.6	95
40	Comparative Study of Base Isolation Systems. Journal of Engineering Mechanics - ASCE, 1989, 115, 1976-1992.	2.9	93
41	COVID-19 spread in a classroom equipped with partition“ A CFD approach. Journal of Hazardous Materials, 2021, 420, 126587.	12.4	91
42	A sublayer model for wall deposition of ellipsoidal particles in turbulent streams. Journal of Aerosol Science, 1995, 26, 813-840.	3.8	90
43	A facile, bio-based, novel approach for synthesis of covalently functionalized graphene nanoplatelet nano-coolants toward improved thermo-physical and heat transfer properties. Journal of Colloid and Interface Science, 2018, 509, 140-152.	9.4	90
44	A comparative study of performances of various base isolation systems, part I: Shear beam structures. Earthquake Engineering and Structural Dynamics, 1989, 18, 11-32.	4.4	89
45	Eulerian“Lagrangian simulations of liquid“gas“solid flows in three-phase slurry reactors. Chemical Engineering Science, 2005, 60, 5089-5104.	3.8	86
46	Generation of artificial earthquake records with a nonstationary Kanai“Tajimi model. Engineering Structures, 2001, 23, 827-837.	5.3	85
47	Universal stability of magneto-micropolar fluid motions. International Journal of Engineering Science, 1974, 12, 657-663.	5.0	84
48	Stability of a micropolar fluid layer heated from below. International Journal of Engineering Science, 1976, 14, 81-89.	5.0	83
49	Dispersion and deposition of Brownian particles from point sources in a simulated turbulent channel flow. Journal of Colloid and Interface Science, 1991, 147, 233-250.	9.4	83
50	Synthesis of ethylene glycol-treated Graphene Nanoplatelets with one-pot, microwave-assisted functionalization for use as a high performance engine coolant. Energy Conversion and Management, 2015, 101, 767-777.	9.2	83
51	Computer simulations of natural convection of single phase nanofluids in simple enclosures: A critical review. Applied Thermal Engineering, 2012, 36, 1-13.	6.0	79
52	Direct numerical simulation of particle entrainment in turbulent channel flow. Physics of Fluids, 1995, 7, 647-657.	4.0	75
53	Numerical investigation of effects of inner cone on flow field, performance and erosion rate of cyclone separators. Separation and Purification Technology, 2018, 201, 223-237.	7.9	75
54	Airflow and pollutant transport in street canyons. Journal of Wind Engineering and Industrial Aerodynamics, 2006, 94, 491-522.	3.9	74

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55	Heat Transfer and Pressure Drop in Fully Developed Turbulent Flows of Graphene Nanoplatelets“Silver/Water Nanofluids. <i>Fluids</i> , 2016, 1, 20.	1.7	73
56	Thermal performance of nanofluid in ducts with double forward-facing steps. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 47, 28-42.	5.3	71
57	Analyzing wind cleaning process on the accumulated dust on solar photovoltaic (PV) modules on flat surfaces. <i>Solar Energy</i> , 2018, 159, 1031-1036.	6.1	71
58	Micro and nanoparticle deposition in human nasal passage pre and post virtual maxillary sinus endoscopic surgery. <i>Respiratory Physiology and Neurobiology</i> , 2012, 181, 335-345.	1.6	68
59	Monte Carlo simulation of micron size spherical particle removal and resuspension from substrate under fluid flows. <i>Journal of Aerosol Science</i> , 2013, 66, 62-71.	3.8	68
60	A novel, eco-friendly technique for covalent functionalization of graphene nanoplatelets and the potential of their nanofluids for heat transfer applications. <i>Chemical Physics Letters</i> , 2017, 675, 92-97.	2.6	68
61	Numerical Study of Entropy Generation in a Flowing Nanofluid Used in Micro- and Minichannels. <i>Entropy</i> , 2013, 15, 144-155.	2.2	67
62	Numerical Simulations Investigating the Regional and Overall Deposition Efficiency of the Human Nasal Cavity. <i>Inhalation Toxicology</i> , 2008, 20, 1093-1100.	1.6	65
63	Investigation of pollutant reduction by simulation of turbulent non-premixed pulverized coal combustion. <i>Applied Thermal Engineering</i> , 2014, 73, 1222-1235.	6.0	65
64	Discrete particle model for convective AL ₂ O ₃ “water nanofluid around a triangular obstacle. <i>Applied Thermal Engineering</i> , 2016, 100, 39-54.	6.0	64
65	Influence of the dipleg shape on the performance of gas cyclones. <i>Separation and Purification Technology</i> , 2020, 233, 116000.	7.9	64
66	Application of Wiener-Hermite Expansion to Nonstationary Random Vibration of a Duffing Oscillator. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1983, 50, 436-442.	2.2	62
67	Microwave-Assisted Synthesis of Highly-Crumpled, Few-Layered Graphene and Nitrogen-Doped Graphene for Use as High-Performance Electrodes in Capacitive Deionization. <i>Scientific Reports</i> , 2015, 5, 17503.	3.3	62
68	Evaluation of airflow and thermal comfort in buildings ventilated with wind catchers: Simulation of conditions in Yazd City, Iran. <i>Energy for Sustainable Development</i> , 2016, 35, 7-24.	4.5	62
69	Particle Detachment, Resuspension and Transport Due to Human Walking in Indoor Environments. <i>Journal of Adhesion Science and Technology</i> , 2008, 22, 591-621.	2.6	61
70	A DNS study of effects of particle“particle collisions and two-way coupling on particle deposition and phasic fluctuations. <i>Journal of Fluid Mechanics</i> , 2009, 640, 507-536.	3.4	61
71	Entropy Generation during Turbulent Flow of Zirconia-water and Other Nanofluids in a Square Cross Section Tube with a Constant Heat Flux. <i>Entropy</i> , 2014, 16, 6116-6132.	2.2	61
72	Experimental investigation of dust particle deposition in a turbulent channel flow. <i>Journal of Aerosol Science</i> , 1993, 24, 795-815.	3.8	60

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73	Numerical simulations of airflow and droplet transport in a wave-plate mist eliminator. Chemical Engineering Research and Design, 2010, 88, 1393-1404.	5.6	59
74	Computational fluid dynamics studies of dry and wet pressure drops in structured packings. Journal of Industrial and Engineering Chemistry, 2012, 18, 1465-1473.	5.8	59
75	Impacts of the vortex finder eccentricity on the flow pattern and performance of a gas cyclone. Separation and Purification Technology, 2017, 187, 1-13.	7.9	59
76	CFD studies of solids hold-up distribution and circulation patterns in gas-solid fluidized beds. Powder Technology, 2010, 200, 202-215.	4.2	58
77	Computational Modeling of Fluid Flow through a Fracture in Permeable Rock. Transport in Porous Media, 2010, 84, 493-510.	2.6	58
78	Mass production of highly-porous graphene for high-performance supercapacitors. Scientific Reports, 2016, 6, 32686.	3.3	58
79	Computational modeling of flow and sediment transport and deposition in meandering rivers. Advances in Water Resources, 2002, 25, 689-699.	3.8	57
80	Investigation of particle dispersion and deposition in a channel with a square cylinder obstruction using the lattice Boltzmann method. Journal of Aerosol Science, 2010, 41, 198-206.	3.8	57
81	Numerical analysis of stochastic dispersion of micro-particles in turbulent flows in a realistic model of human nasal/upper airway. Journal of Aerosol Science, 2014, 67, 188-206.	3.8	57
82	Numerical simulation of airflow and micro-particle deposition in human nasal airway pre- and post-virtual sphenoidotomy surgery. Computers in Biology and Medicine, 2015, 61, 8-18.	7.0	57
83	Simulations of indoor airflow and particle dispersion and deposition by the lattice Boltzmann method using LES and RANS approaches. Building and Environment, 2016, 102, 1-12.	6.9	57
84	Stochastic earthquake response of structures on sliding foundation. International Journal of Engineering Science, 1983, 21, 93-102.	5.0	55
85	The experimental study of water management in the cathode channel of single-serpentine transparent proton exchange membrane fuel cell by direct visualization. International Journal of Hydrogen Energy, 2015, 40, 2808-2832.	7.1	55
86	A kinetic model for rapid granular flows of nearly elastic particles including interstitial fluid effects. Powder Technology, 1988, 56, 191-207.	4.2	54
87	A thermodynamical formulation for dispersed multiphase turbulent flows-II. International Journal of Multiphase Flow, 1990, 16, 341-351.	3.4	54
88	Computer Simulation of Deposition of Aerosols in a Turbulent Channel Flow with Rough Walls. Aerosol Science and Technology, 1993, 18, 11-24.	3.1	54
89	Constant rate natural gas production from a well in a hydrate reservoir. Energy Conversion and Management, 2003, 44, 2403-2423.	9.2	54
90	Wall deposition of aerosol particles in a turbulent channel flow. Journal of Aerosol Science, 1991, 22, 43-62.	3.8	53

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91	Human induced flow field and resultant particle resuspension and transport during gait cycle. Building and Environment, 2014, 77, 101-109.	6.9	53
92	Effects of trap and reflect particle boundary conditions on particle transport and convective heat transfer for duct flow - A two-way coupling of Eulerian-Lagrangian model. Applied Thermal Engineering, 2016, 108, 368-377.	6.0	53
93	CFD simulation of total and regional fiber deposition in human nasal cavities. Journal of Aerosol Science, 2014, 69, 132-149.	3.8	52
94	Study of environmentally friendly and facile functionalization of graphene nanoplatelet and its application in convective heat transfer. Energy Conversion and Management, 2017, 150, 26-36.	9.2	52
95	A generalized continuum theory for granular materials. International Journal of Non-Linear Mechanics, 1982, 17, 21-33.	2.6	51
96	Fibrous particle deposition in human nasal passage: The influence of particle length, flow rate, and geometry of nasal airway. Journal of Aerosol Science, 2008, 39, 1040-1054.	3.8	51
97	Two-phase flow and droplet behavior in microchannels of PEM fuel cell. International Journal of Hydrogen Energy, 2016, 41, 19164-19181.	7.1	51
98	WALL DEPOSITION OF SMALL ELLIPSOIDS FROM TURBULENT AIR FLOWSâ€”A BROWNIAN DYNAMICS SIMULATION. Journal of Aerosol Science, 2000, 31, 1205-1229.	3.8	50
99	Modeling of heat transfer in turbulent gasâ€”solid flow. International Journal of Heat and Mass Transfer, 2002, 45, 1173-1184.	4.8	50
100	CFD simulation of cylindrical spouted beds by the kinetic theory of granular flow. Powder Technology, 2013, 246, 303-316.	4.2	50
101	Boundary Layer Flow and Heat Transfer of FMWCNT/Water Nanofluids over a Flat Plate. Fluids, 2016, 1, 31.	1.7	50
102	Electrostatic force distribution on an electrodynamic screen. Journal of Electrostatics, 2016, 81, 24-36.	1.9	50
103	On the stability of a microbeam conveying fluid considering modified couple stress theory. International Journal of Mechanics and Materials in Design, 2011, 7, 327-342.	3.0	49
104	Transport and deposition of ellipsoidal fibers in low Reynolds number flows. Journal of Aerosol Science, 2012, 45, 1-18.	3.8	49
105	Fiber transport and deposition in human upper tracheobronchial airways. Journal of Aerosol Science, 2013, 60, 1-20.	3.8	49
106	Computational Fluid and Particle Dynamics in the Human Respiratory System. Biological and Medical Physics Series, 2013, , .	0.4	49
107	A Comparison of Brownian and Turbulent Diffusion. Aerosol Science and Technology, 1990, 13, 47-53.	3.1	48
108	Computational Modelling of Gas-Particle Flows with Different Particle Morphology in the Human Nasal Cavity. Journal of Computational Multiphase Flows, 2009, 1, 57-82.	0.8	48

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109	Computer simulation of the performance of a solar pond in the southern part of Iran. Solar Energy, 1980, 24, 143-151.	6.1	47
110	Deposition of particles in a turbulent pipe flow. Journal of Aerosol Science, 1997, 28, 789-796.	3.8	47
111	Analysis of Dispersion of Small Spherical Particles in a Random Velocity Field. Journal of Fluids Engineering, Transactions of the ASME, 1990, 112, 114-120.	1.5	46
112	Integrated Passive/Active Vibration Absorber for Multistory Buildings. Journal of Structural Engineering, 1997, 123, 499-504.	3.4	46
113	Synthesis of polyethylene glycol-functionalized multi-walled carbon nanotubes with a microwave-assisted approach for improved heat dissipation. RSC Advances, 2015, 5, 35425-35434.	3.6	46
114	Numerical investigation of transient transport and deposition of microparticles under unsteady inspiratory flow in human upper airways. Respiratory Physiology and Neurobiology, 2017, 244, 56-72.	1.6	46
115	First strain gradient theory of thermoelasticity. International Journal of Solids and Structures, 1975, 11, 339-345.	2.7	45
116	Wind Effects on Base-Isolated Structures. Journal of Engineering Mechanics - ASCE, 1992, 118, 1708-1727.	2.9	45
117	Particle Removal Mechanisms Under Substrate Acceleration. Journal of Adhesion, 1994, 44, 161-175.	3.0	44
118	Particle Detachment from Rough Surfaces in Turbulent Flows. Journal of Adhesion, 1995, 51, 105-123.	3.0	44
119	Wind tunnel study and numerical simulation of dust particle resuspension from indoor surfaces in turbulent flows. Journal of Adhesion Science and Technology, 2013, 27, 1563-1579.	2.6	44
120	Transformer oils-based graphene quantum dots nanofluid as a new generation of highly conductive and stable coolant. International Communications in Heat and Mass Transfer, 2017, 83, 40-47.	5.6	44
121	Dispersion of Ellipsoidal Particles in an Isotropic Pseudo-Turbulent Flow Field. Journal of Fluids Engineering, Transactions of the ASME, 1995, 117, 154-161.	1.5	43
122	Numerical investigation of septal deviation effect on deposition of nano/microparticles in human nasal passage. Respiratory Physiology and Neurobiology, 2011, 177, 9-18.	1.6	43
123	Detachment of rough particles with electrostatic attraction from surfaces in turbulent flows. Journal of Adhesion Science and Technology, 1999, 13, 325-355.	2.6	42
124	A numerical investigation into the performance of two types of jet fans in ventilation of an urban tunnel under traffic jam condition. Tunnelling and Underground Space Technology, 2014, 44, 56-67.	6.2	42
125	An immersed boundary-lattice Boltzmann method combined with a robust lattice spring model for solving flow-structure interaction problems. Applied Mathematical Modelling, 2018, 55, 502-521.	4.2	42
126	Influence of the dipleg and dustbin dimensions on performance of gas cyclones: An optimization study. Separation and Purification Technology, 2020, 239, 116553.	7.9	42

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127	Computer Simulation of Particle Deposition in the Upper Tracheobronchial Tree. Aerosol Science and Technology, 1995, 23, 201-223.	3.1	41
128	Particle Adhesion and Detachment in Turbulent Flows Including Capillary Forces. Particulate Science and Technology, 2007, 25, 59-76.	2.1	41
129	Mixing and segregation of solid particles in a conical spouted bed: Effect of particle size and density. Particuology, 2017, 32, 132-140.	3.6	41
130	Turbulent indoor airflow simulation using hybrid LES/RANS model utilizing Lattice Boltzmann method. Computers and Fluids, 2017, 150, 66-73.	2.5	41
131	A sublayer model for deposition of nano- and micro-particles in turbulent flows. Chemical Engineering Science, 2000, 55, 6097-6107.	3.8	40
132	Particle removal mechanisms in cryogenic surface cleaning. Journal of Adhesion, 2003, 79, 175-201.	3.0	40
133	CFD modeling of a spouted bed with a porous draft tube. Particuology, 2010, 8, 415-424.	3.6	40
134	Computational Fluid Dynamic Simulation of Hydrodynamic Behavior in a Two-Dimensional Conical Spouted Bed. Energy & Fuels, 2010, 24, 6086-6098.	5.1	40
135	Direct-forcing immersed boundary "non-Newtonian lattice Boltzmann method for transient non-isothermal sedimentation. Journal of Aerosol Science, 2017, 104, 106-122.	3.8	40
136	A state-of-knowledge review on the endurance time method. Structures, 2020, 27, 2288-2299.	3.6	40
137	Influence of the inlet cross-sectional shape on the performance of a multi-inlet gas cyclone. Powder Technology, 2021, 384, 82-99.	4.2	40
138	Experimental study on thermo-physical and rheological properties of stable and green reduced graphene oxide nanofluids: Hydrothermal assisted technique. Journal of Dispersion Science and Technology, 2017, 38, 1302-1310.	2.4	39
139	CFD modeling of turbulent convection heat transfer of nanofluids containing green functionalized graphene nanoplatelets flowing in a horizontal tube: Comparison with experimental data. Journal of Molecular Liquids, 2018, 269, 152-159.	4.9	39
140	Study of erosion prediction of turbulent gas-solid flow in plugged tees via CFD-DEM. Powder Technology, 2019, 352, 136-150.	4.2	39
141	Response of base-isolated buildings to random excitations described by the Clough-Penzien spectral model. Earthquake Engineering and Structural Dynamics, 1989, 18, 49-62.	4.4	38
142	Particle detachment mechanisms from rough surfaces under substrate acceleration. Journal of Adhesion Science and Technology, 1995, 9, 453-473.	2.6	38
143	On random walk models for simulation of particle-laden turbulent flows. International Journal of Multiphase Flow, 2020, 122, 103157.	3.4	38
144	Effects of Inlet Position and Baffle Configuration on Hydraulic Performance of Primary Settling Tanks. Journal of Hydraulic Engineering, 2008, 134, 1004-1009.	1.5	37

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145	Seismic responses of secondary systems in base-isolated structures. Engineering Structures, 1992, 14, 35-48.	5.3	36
146	Thermo-mechanical modeling of turbulent heat transfer in gas–solid flows including particle collisions. International Journal of Heat and Fluid Flow, 2002, 23, 792-806.	2.4	36
147	A Model for Effect of Colloidal Forces on Chemical Mechanical Polishing. Journal of the Electrochemical Society, 2003, 150, G233.	2.9	36
148	Particles dispersion and deposition in inhomogeneous turbulent flows using continuous random walk models. Physics of Fluids, 2019, 31, .	4.0	36
149	Response of frictional base isolation systems to horizontal-vertical random earthquake excitations. Probabilistic Engineering Mechanics, 1988, 3, 12-21.	2.7	35
150	Motions of Small Rigid Spheres in Simulated Random Velocity Field. Journal of Engineering Mechanics - ASCE, 1989, 115, 2107-2121.	2.9	35
151	Computational and Experimental Study of Heat Transfer and Hydrodynamics in a 2D Gas–Solid Fluidized Bed Reactor. Industrial & Engineering Chemistry Research, 2010, 49, 5110-5121.	3.7	35
152	A Model for Removal of Compact, Rough, Irregularly Shaped Particles from Surfaces in Turbulent Flows. Journal of Adhesion, 2012, 88, 766-786.	3.0	35
153	Numerical analysis of flow field around NREL Phase II wind turbine by a hybrid CFD/BEM method. Journal of Wind Engineering and Industrial Aerodynamics, 2013, 120, 29-36.	3.9	35
154	On the Sublayer Model for Turbulent Deposition of Aerosol Particles in the Presence of Gravity and Electric Fields. Aerosol Science and Technology, 1994, 21, 49-71.	3.1	34
155	Dispersion and deposition of particles in a turbulent pipe flow with sudden expansion. Journal of Aerosol Science, 1998, 29, 1097-1116.	3.8	34
156	Optimal Active Control of Vehicle Suspension System Including Time Delay and Preview for Rough Roads. JVC/Journal of Vibration and Control, 2002, 8, 967-991.	2.6	34
157	Natural gas production from hydrate dissociation: An axisymmetric model. Journal of Petroleum Science and Engineering, 2007, 58, 245-258.	4.2	34
158	Modeling and numerical investigation of erosion rate for turbulent two-phase gas–solid flow in horizontal pipes. Powder Technology, 2014, 267, 362-370.	4.2	34
159	A non-Newtonian direct numerical study for stationary and moving objects with various shapes: An immersed boundary – Lattice Boltzmann approach. Journal of Aerosol Science, 2016, 93, 45-62.	3.8	34
160	On mechanics of saturated granular materials. International Journal of Non-Linear Mechanics, 1980, 15, 251-262.	2.6	33
161	A continuum theory for two phase media. Acta Mechanica, 1982, 44, 299-317.	2.1	33
162	Particle Transport and Deposition in a Hot-Gas Cleanup Pilot Plant. Aerosol Science and Technology, 1998, 29, 183-205.	3.1	33

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163	Flow Analysis of Non-Newtonian Blood in a Magnetohydrodynamic Pump. IEEE Transactions on Magnetism, 2009, 45, 2667-2670.	2.1	33
164	Prediction of the Effective Area in Structured Packings by Computational Fluid Dynamics. Industrial & Engineering Chemistry Research, 2011, 50, 10833-10842.	3.7	33
165	Numerical investigation of regional particle deposition in the upper airway of a standing male mannequin in calm air surroundings. Computers in Biology and Medicine, 2014, 52, 73-81.	7.0	33
166	Unsteady particle tracking of micro-particle deposition in the human nasal cavity under cyclic inspiratory flow. Journal of Aerosol Science, 2016, 101, 86-103.	3.8	33
167	Performance analysis of aseismic base isolation systems for a multi-story building. Soil Dynamics and Earthquake Engineering, 1991, 10, 152-171.	3.8	32
168	Simulation of earthquake records using time-varying Arma (2,1) model. Probabilistic Engineering Mechanics, 2002, 17, 15-34.	2.7	32
169	The effect of two-way coupling and inter-particle collisions on turbulence modulation in a vertical channel flow. International Journal of Heat and Fluid Flow, 2007, 28, 1507-1517.	2.4	32
170	Lattice Boltzmann method and RANS approach for simulation of turbulent flows and particle transport and deposition. Particuology, 2017, 30, 62-72.	3.6	32
171	3-D numerical analysis of train-induced flow inside four ventilated underground subway stations and connecting tunnels. Journal of Wind Engineering and Industrial Aerodynamics, 2019, 193, 103974.	3.9	32
172	Modeling the Effect of Bumpy Abrasive Particles on Chemical Mechanical Polishing. Journal of the Electrochemical Society, 2002, 149, G370.	2.9	31
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