

Goodarz Ahmadi

List of Publications by Year in descending order

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700
papers

18,746
citations

18479

62
h-index

28296

105
g-index

709
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 flows 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 Post-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. <i>Journal of Hydrology</i> , 2006, 329, 315-328.	5.4	101
38	Nonstationary Kanai-Tajimi models for El Centro 1940 and Mexico City 1985 earthquakes. <i>Probabilistic Engineering Mechanics</i> , 1990, 5, 171-181.	2.7	99
39	Brownian particle deposition in a directly simulated turbulent channel flow. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 1427-1432.	1.6	95
40	Comparative Study of Base Isolation Systems. <i>Journal of Engineering Mechanics - ASCE</i> , 1989, 115, 1976-1992.	2.9	93
41	COVID-19 spread in a classroom equipped with partition— A CFD approach. <i>Journal of Hazardous Materials</i> , 2021, 420, 126587.	12.4	91
42	A sublayer model for wall deposition of ellipsoidal particles in turbulent streams. <i>Journal of Aerosol Science</i> , 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. <i>Journal of Colloid and Interface Science</i> , 2018, 509, 140-152.	9.4	90
44	A comparative study of performances of various base isolation systems, part I: Shear beam structures. <i>Earthquake Engineering and Structural Dynamics</i> , 1989, 18, 11-32.	4.4	89
45	Eulerian—Lagrangian simulations of liquid—gas—solid flows in three-phase slurry reactors. <i>Chemical Engineering Science</i> , 2005, 60, 5089-5104.	3.8	86
46	Generation of artificial earthquake records with a nonstationary Kanai—Tajimi model. <i>Engineering Structures</i> , 2001, 23, 827-837.	5.3	85
47	Universal stability of magneto-micropolar fluid motions. <i>International Journal of Engineering Science</i> , 1974, 12, 657-663.	5.0	84
48	Stability of a micropolar fluid layer heated from below. <i>International Journal of Engineering Science</i> , 1976, 14, 81-89.	5.0	83
49	Dispersion and deposition of Brownian particles from point sources in a simulated turbulent channel flow. <i>Journal of Colloid and Interface Science</i> , 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. <i>Energy Conversion and Management</i> , 2015, 101, 767-777.	9.2	83
51	Computer simulations of natural convection of single phase nanofluids in simple enclosures: A critical review. <i>Applied Thermal Engineering</i> , 2012, 36, 1-13.	6.0	79
52	Direct numerical simulation of particle entrainment in turbulent channel flow. <i>Physics of Fluids</i> , 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. <i>Separation and Purification Technology</i> , 2018, 201, 223-237.	7.9	75
54	Airflow and pollutant transport in street canyons. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 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. <i>Chemical Engineering Research and Design</i> , 2010, 88, 1393-1404.	5.6	59
74	Computational fluid dynamics studies of dry and wet pressure drops in structured packings. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 1465-1473.	5.8	59
75	Impacts of the vortex finder eccentricity on the flow pattern and performance of a gas cyclone. <i>Separation and Purification Technology</i> , 2017, 187, 1-13.	7.9	59
76	CFD studies of solids hold-up distribution and circulation patterns in gas-liquid-solid fluidized beds. <i>Powder Technology</i> , 2010, 200, 202-215.	4.2	58
77	Computational Modeling of Fluid Flow through a Fracture in Permeable Rock. <i>Transport in Porous Media</i> , 2010, 84, 493-510.	2.6	58
78	Mass production of highly-porous graphene for high-performance supercapacitors. <i>Scientific Reports</i> , 2016, 6, 32686.	3.3	58
79	Computational modeling of flow and sediment transport and deposition in meandering rivers. <i>Advances in Water Resources</i> , 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. <i>Journal of Aerosol Science</i> , 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. <i>Journal of Aerosol Science</i> , 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. <i>Computers in Biology and Medicine</i> , 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. <i>Building and Environment</i> , 2016, 102, 1-12.	6.9	57
84	Stochastic earthquake response of structures on sliding foundation. <i>International Journal of Engineering Science</i> , 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. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 2808-2832.	7.1	55
86	A kinetic model for rapid granular flows of nearly elastic particles including interstitial fluid effects. <i>Powder Technology</i> , 1988, 56, 191-207.	4.2	54
87	A thermodynamical formulation for dispersed multiphase turbulent flows-II. <i>International Journal of Multiphase Flow</i> , 1990, 16, 341-351.	3.4	54
88	Computer Simulation of Deposition of Aerosols in a Turbulent Channel Flow with Rough Walls. <i>Aerosol Science and Technology</i> , 1993, 18, 11-24.	3.1	54
89	Constant rate natural gas production from a well in a hydrate reservoir. <i>Energy Conversion and Management</i> , 2003, 44, 2403-2423.	9.2	54
90	Wall deposition of aerosol particles in a turbulent channel flow. <i>Journal of Aerosol Science</i> , 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 FLOWS—A BROWNIAN DYNAMICS SIMULATION. Journal of Aerosol Science, 2000, 31, 1205-1229.	3.8	50
99	Modeling of heat transfer in turbulent gas—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. <i>Solar Energy</i> , 1980, 24, 143-151.	6.1	47
110	Deposition of particles in a turbulent pipe flow. <i>Journal of Aerosol Science</i> , 1997, 28, 789-796.	3.8	47
111	Analysis of Dispersion of Small Spherical Particles in a Random Velocity Field. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1990, 112, 114-120.	1.5	46
112	Integrated Passive/Active Vibration Absorber for Multistory Buildings. <i>Journal of Structural Engineering</i> , 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. <i>RSC Advances</i> , 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. <i>Respiratory Physiology and Neurobiology</i> , 2017, 244, 56-72.	1.6	46
115	First strain gradient theory of thermoelasticity. <i>International Journal of Solids and Structures</i> , 1975, 11, 339-345.	2.7	45
116	Wind Effects on Base-Isolated Structures. <i>Journal of Engineering Mechanics - ASCE</i> , 1992, 118, 1708-1727.	2.9	45
117	Particle Removal Mechanisms Under Substrate Acceleration. <i>Journal of Adhesion</i> , 1994, 44, 161-175.	3.0	44
118	Particle Detachment from Rough Surfaces in Turbulent Flows. <i>Journal of Adhesion</i> , 1995, 51, 105-123.	3.0	44
119	Wind tunnel study and numerical simulation of dust particle resuspension from indoor surfaces in turbulent flows. <i>Journal of Adhesion Science and Technology</i> , 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. <i>International Communications in Heat and Mass Transfer</i> , 2017, 83, 40-47.	5.6	44
121	Dispersion of Ellipsoidal Particles in an Isotropic Pseudo-Turbulent Flow Field. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1995, 117, 154-161.	1.5	43
122	Numerical investigation of septal deviation effect on deposition of nano/microparticles in human nasal passage. <i>Respiratory Physiology and Neurobiology</i> , 2011, 177, 9-18.	1.6	43
123	Detachment of rough particles with electrostatic attraction from surfaces in turbulent flows. <i>Journal of Adhesion Science and Technology</i> , 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. <i>Tunnelling and Underground Space Technology</i> , 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. <i>Applied Mathematical Modelling</i> , 2018, 55, 502-521.	4.2	42
126	Influence of the dipleg and dustbin dimensions on performance of gas cyclones: An optimization study. <i>Separation and Purification Technology</i> , 2020, 239, 116553.	7.9	42

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127	Computer Simulation of Particle Deposition in the Upper Tracheobronchial Tree. <i>Aerosol Science and Technology</i> , 1995, 23, 201-223.	3.1	41
128	Particle Adhesion and Detachment in Turbulent Flows Including Capillary Forces. <i>Particulate Science and Technology</i> , 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. <i>Particuology</i> , 2017, 32, 132-140.	3.6	41
130	Turbulent indoor airflow simulation using hybrid LES/RANS model utilizing Lattice Boltzmann method. <i>Computers and Fluids</i> , 2017, 150, 66-73.	2.5	41
131	A sublayer model for deposition of nano- and micro-particles in turbulent flows. <i>Chemical Engineering Science</i> , 2000, 55, 6097-6107.	3.8	40
132	Particle removal mechanisms in cryogenic surface cleaning. <i>Journal of Adhesion</i> , 2003, 79, 175-201.	3.0	40
133	CFD modeling of a spouted bed with a porous draft tube. <i>Particuology</i> , 2010, 8, 415-424.	3.6	40
134	Computational Fluid Dynamic Simulation of Hydrodynamic Behavior in a Two-Dimensional Conical Spouted Bed. <i>Energy & Fuels</i> , 2010, 24, 6086-6098.	5.1	40
135	Direct-forcing immersed boundary $\hat{\epsilon}^c$ non-Newtonian lattice Boltzmann method for transient non-isothermal sedimentation. <i>Journal of Aerosol Science</i> , 2017, 104, 106-122.	3.8	40
136	A state-of-knowledge review on the endurance time method. <i>Structures</i> , 2020, 27, 2288-2299.	3.6	40
137	Influence of the inlet cross-sectional shape on the performance of a multi-inlet gas cyclone. <i>Powder Technology</i> , 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. <i>Journal of Dispersion Science and Technology</i> , 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. <i>Journal of Molecular Liquids</i> , 2018, 269, 152-159.	4.9	39
140	Study of erosion prediction of turbulent gas-solid flow in plugged tees via CFD-DEM. <i>Powder Technology</i> , 2019, 352, 136-150.	4.2	39
141	Response of base-isolated buildings to random excitations described by the Clough-Penzien spectral model. <i>Earthquake Engineering and Structural Dynamics</i> , 1989, 18, 49-62.	4.4	38
142	Particle detachment mechanisms from rough surfaces under substrate acceleration. <i>Journal of Adhesion Science and Technology</i> , 1995, 9, 453-473.	2.6	38
143	On random walk models for simulation of particle-laden turbulent flows. <i>International Journal of Multiphase Flow</i> , 2020, 122, 103157.	3.4	38
144	Effects of Inlet Position and Baffle Configuration on Hydraulic Performance of Primary Settling Tanks. <i>Journal of Hydraulic Engineering</i> , 2008, 134, 1004-1009.	1.5	37

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145	Seismic responses of secondary systems in base-isolated structures. <i>Engineering Structures</i> , 1992, 14, 35-48.	5.3	36
146	Thermo-mechanical modeling of turbulent heat transfer in gas-solid flows including particle collisions. <i>International Journal of Heat and Fluid Flow</i> , 2002, 23, 792-806.	2.4	36
147	A Model for Effect of Colloidal Forces on Chemical Mechanical Polishing. <i>Journal of the Electrochemical Society</i> , 2003, 150, G233.	2.9	36
148	Particles dispersion and deposition in inhomogeneous turbulent flows using continuous random walk models. <i>Physics of Fluids</i> , 2019, 31, .	4.0	36
149	Response of frictional base isolation systems to horizontal-vertical random earthquake excitations. <i>Probabilistic Engineering Mechanics</i> , 1988, 3, 12-21.	2.7	35
150	Motions of Small Rigid Spheres in Simulated Random Velocity Field. <i>Journal of Engineering Mechanics - ASCE</i> , 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. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 5110-5121.	3.7	35
152	A Model for Removal of Compact, Rough, Irregularly Shaped Particles from Surfaces in Turbulent Flows. <i>Journal of Adhesion</i> , 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. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 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. <i>Aerosol Science and Technology</i> , 1994, 21, 49-71.	3.1	34
155	Dispersion and deposition of particles in a turbulent pipe flow with sudden expansion. <i>Journal of Aerosol Science</i> , 1998, 29, 1097-1116.	3.8	34
156	Optimal Active Control of Vehicle Suspension System Including Time Delay and Preview for Rough Roads. <i>JVC/Journal of Vibration and Control</i> , 2002, 8, 967-991.	2.6	34
157	Natural gas production from hydrate dissociation: An axisymmetric model. <i>Journal of Petroleum Science and Engineering</i> , 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. <i>Powder Technology</i> , 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. <i>Journal of Aerosol Science</i> , 2016, 93, 45-62.	3.8	34
160	On mechanics of saturated granular materials. <i>International Journal of Non-Linear Mechanics</i> , 1980, 15, 251-262.	2.6	33
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