The slow motion of a sphere through a viscous fluid tow

Chemical Engineering Science 16, 242-251

DOI: 10.1016/0009-2509(61)80035-3

Citation Report

#	Article	IF	CITATIONS
4	Approach of a solid sphere to a rigid plane interface. Part 2. Journal of Colloid Science, 1963, 18, 103-104.	0.8	35
5	The gravity approach and coalescence of fluid drops at liquid interfaces. Canadian Journal of Chemical Engineering, 1963, 41, 203-212.	1.7	180
6	Non-random Distribution of Bull Spermatozoa in a Drop of Sperm Suspension. Nature, 1963, 200, 381-381.	27.8	54
7	End effects in falling-ball viscometry. Journal of Fluid Mechanics, 1963, 17, 161-170.	3.4	60
8	Upper and lower bounds on the drag coefficient of a sphere in a power-model fluid. AICHE Journal, 1964, 10, 383-388.	3.6	93
9	Collisions of very small cloud drops. Journal of Geophysical Research, 1966, 71, 3101-3104.	3.3	14
10	Hydrodynamic Resistance of Particles at Small Reynolds Numbers. Advances in Chemical Engineering, 1966, 6, 287-438.	0.9	128
11	Gravitational coagulation of charged cloud drops in turbulent flow. Pure and Applied Geophysics, 1966, 64, 185-196.	1.9	4
12	The stokes translation of a particle of arbitrary shape along the axis of a circular cylinder. Flow, Turbulence and Combustion, 1966, 16, 273-300.	0.2	34
13	The stokes translation of two or more particles along the axis of an infinitely long circular cylinder. Flow, Turbulence and Combustion, 1966, 16, 425-454.	0.2	22
14	Measurement of the limiting viscosity with a rotating sphere viscometer. Journal of Applied Polymer Science, 1966, 10, 1793-1799.	2.6	8
15	Slow viscous motion of a sphere parallel to a plane wall—II Couette flow. Chemical Engineering Science, 1967, 22, 653-660.	3.8	1,056
16	On the viscosity of a concentrated suspension of solid spheres. Chemical Engineering Science, 1967, 22, 847-853.	3.8	662
17	The slow motion of a sphere through a viscous fluid towards a plane surfaceâ€"Il Small gap widths, including inertial effects. Chemical Engineering Science, 1967, 22, 1753-1777.	3.8	254
18	The slow unsteady settling of a fluid sphere toward a flat fluid interface. Chemical Engineering Science, 1968, 23, 193-210.	3.8	109
19	On the slow motion generated in a viscous fluid by the approach of a sphere to a plane wall or stationary sphere. Mathematika, 1969, 16, 37-49.	0.5	155
20	Exact solutions of the equations of slow viscous flow generated by the asymmetrical motion of two equal spheres. Flow, Turbulence and Combustion, 1969, 21, 452-466.	0.2	20
21	The slow translation and rotation of two unequal spheres in a viscous fluid. Chemical Engineering Science, 1969, 24, 1769-1776.	3.8	78

#	Article	IF	CITATIONS
22	Electrophoresis of an insulating sphere normal to a conducting plane. Journal of Colloid and Interface Science, 1970, 33, 88-93.	9.4	70
23	Asymmetrical slow viscous fluid motions caused by the translation or rotation of two spheres. Part I: The determination of exact solutions for any values of the ratio of radii and separation parameters. Zeitschrift Fur Angewandte Mathematik Und Physik, 1970, 21, 164-179.	1.4	78
24	On converging solid spheres in a highly viscous fluid. Mathematika, 1970, 17, 250-254.	0.5	11
25	Slow motion of two spheres in a shear field. Journal of Fluid Mechanics, 1970, 43, 35-47.	3.4	120
26	Statistical hydromechanics of disperse systems Part 1. Physical background and general equations. Journal of Fluid Mechanics, 1971, 49, 489.	3.4	104
27	Effect of hydrodynamic interaction on the coagulation rate of hydrophobic colloids. Journal of Colloid and Interface Science, 1971, 36, 97-109.	9.4	385
28	On the hydrodynamic resistance to a particle of a dilute suspension when in the neighbourhood of a large obstacle. Chemical Engineering Science, 1971, 26, 325-338.	3.8	176
29	Passage of a liquid drop through a liquidâ€"liquid interface. Chemical Engineering Science, 1972, 27, 881-893.	3.8	11
30	Slow motion of a fluid sphere in the vicinity of another sphere or a plane boundary. Chemical Engineering Science, 1972, 27, 1817-1828.	3.8	80
31	Some speculations on the rate of adhesion of cells to coverslips. Journal of Theoretical Biology, 1972, 37, 169-179.	1.7	49
32	The pseudoturbulent diffusion of particles in homogeneous suspensions. Journal of Applied Mechanics and Technical Physics, 1972, 11, 65-70.	0.5	0
33	The stability of emulsions. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1972, 37, 191-213.	0.1	31
34	The slow unsteady settling of two fluid spheres along their line of centres. Flow, Turbulence and Combustion, 1973, 28, 37-61.	0.2	50
35	Theory for particle collection under london and gravity forces. Journal of Colloid and Interface Science, 1973, 42, 607-623.	9.4	176
36	The hydrodynamic force resisting the approach of a sphere to a plane wall in slip flow. Journal of Colloid and Interface Science, 1973, 44, 356-360.	9.4	36
37	On the motion of a spherical aerosol particle near a wall. Journal of Aerosol Science, 1973, 4, 253-261.	3.8	4
38	Cell adhesion. Progress in Biophysics and Molecular Biology, 1973, 27, 315-384.	2.9	107
39	Effect of London forces upon the rate of deposition of Brownian particles. AICHE Journal, 1974, 20, 1178-1187.	3.6	140

3

#	Article	IF	Citations
40	Diffusional deposition of particles. Journal of Colloid and Interface Science, 1974, 48, 520-522.	9.4	62
41	Application of porous media models to the study of deep bed filtration. Canadian Journal of Chemical Engineering, 1974, 52, 722-731.	1.7	129
42	Particle interactions in viscous flow at small values of knudsen number. Journal of Aerosol Science, 1974, 5, 175-189.	3.8	38
43	The Force on a Sphere Lying near a Plane Surface of a Viscous Fluid. Journal of the Physical Society of Japan, 1974, 36, 1471-1473.	1.6	0
44	Kinetic theory of the escape of particles from surfaces. Journal of Colloid and Interface Science, 1975, 50, 89-107.	9.4	63
45	Resuspension of particles. Journal of Colloid and Interface Science, 1975, 50, 194-196.	9.4	31
46	Dynamics of cell deposition on surfaces. Journal of Theoretical Biology, 1975, 51, 429-438.	1.7	34
47	Brownian diffusion of particles with hydrodynamic interaction. Journal of Fluid Mechanics, 1976, 74, 1-29.	3.4	1,011
48	HYDRODYNAMIC CHROMATOGRAPHY OF LATEX PARTICLES., 1976,, 549-562.		4
49	The influence of viscous interaction on the diffusional deposition of particles. Canadian Journal of Chemical Engineering, 1976, 54, 26-32.	1.7	5
50	Coverage dependent rate of cell deposition. Journal of Theoretical Biology, 1976, 58, 439-454.	1.7	22
51	Adsorption and desorption of particles and their chromatographic separation. AICHE Journal, 1976, 22, 276-283.	3.6	297
52	Trajectory analysis of deep-bed filtration with the sphere-in-cell porous media model. AICHE Journal, 1976, 22, 523-533.	3.6	720
53	The microrheology of colloidal dispersions. Journal of Colloid and Interface Science, 1976, 57, 308-326.	9.4	29
54	The microrheology of colloidal dispersions. Journal of Colloid and Interface Science, 1976, 57, 517-534.	9.4	63
55	Rates of deposition of brownian particles calculated by lumping interaction forces into a boundary condition. Journal of Colloid and Interface Science, 1976, 57, 547-550.	9.4	36
56	Hydrodynamic interactions in electrophoresis. Journal of Colloid and Interface Science, 1976, 54, 117-133.	9.4	82
57	Resuspension of particles: The range of validity of the quasi-stationary theories. Journal of Colloid and Interface Science, 1976, 54, 329-338.	9.4	17

#	Article	IF	CITATIONS
58	Fine particle deposition in laminar flow through parallel-plate and cylindrical channels. Journal of Colloid and Interface Science, 1976, 54, 375-390.	9.4	105
59	Hydrodynamic boundary conditions and polymer dynamics. Journal of Chemical Physics, 1976, 65, 2030-2031.	3.0	8
60	Slip boundary conditions and the hydrodynamic effect on diffusion controlled reactions. Journal of Chemical Physics, 1976, 65, 450-454.	3.0	87
61	A study of unsteady forces at low Reynolds number: a strong interaction theory for the coaxial settling of three or more spheres. Philosophical Transactions of the Royal Society A, 1976, 282, 585-610.	1.1	34
62	The effects of hydrodynamic interactions on translational and rotational relaxation. Journal of Chemical Physics, 1977, 67, 4589-4596.	3.0	43
63	Diffusion of fine particles in the neighborhood of obstacles. Powder Technology, 1977, 18, 65-70.	4.2	3
64	Recent Developments in the Understanding of Colloid Stability. , 1977, , 431-445.		2
65	The Constrained Brownian Movement of Spherical Particles in Cylindrical Pores of Comparable Radius., 1977,, 331-375.		0
66	Van der Waals interactions between surfaces of biological interest. Progress in Surface Science, 1977, 8, 1-58.	8.3	183
67	Transport of particles to a rotating disk surface under an external force field. Journal of Colloid and Interface Science, 1977, 62, 529-541.	9.4	43
68	A model of surface diffusion on solids. Journal of Colloid and Interface Science, 1977, 62, 238-258.	9.4	30
69	The constrained brownian movement of spherical particles in cylindrical pores of comparable radius. Journal of Colloid and Interface Science, 1977, 58, 312-356.	9.4	403
70	Recent developments in the understanding of colloid stability. Journal of Colloid and Interface Science, 1977, 58, 408-422.	9.4	320
71	Role of surface chemistry in particle deposition. Journal of Colloid and Interface Science, 1977, 60, 337-348.	9.4	46
72	Single collector analysis of collection mechanisms in water filtration. Canadian Journal of Chemical Engineering, 1977, 55, 246-255.	1.7	74
73	Hydrodynamic interaction between two spheres. Physica A: Statistical Mechanics and Its Applications, 1977, 89, 373-384.	2.6	184
74	The microrheology of colloidal dispersions. Colloid and Polymer Science, 1977, 255, 794-804.	2.1	80
75	Slow motion of two droplets and a droplet towards a fluid or solid interface. International Journal of Multiphase Flow, 1978, 4, 563-570.	3.4	26

#	ARTICLE	IF	Citations
76	Low reynolds number motion of two drops submerged in an unbounded arbitrary velocity field. International Journal of Multiphase Flow, 1978, 4, 1-17.	3.4	29
77	The slow motion of two spherical particles along their line of centres. International Journal of Multiphase Flow, 1978, 4, 357-381.	3.4	25
78	A kinematic interpretation on coagulation mechanism of hydrophobic colloids. Journal of Colloid and Interface Science, 1978, 63, 551-560.	9.4	24
79	Reversible rate of adsorption or coagulation of brownian particles—effect of the shape of the interaction potential. Journal of Colloid and Interface Science, 1978, 66, 531-543.	9.4	54
80	On the forces between phospholipid bilayers. Journal of Colloid and Interface Science, 1978, 65, 399-414.	9.4	76
81	On the convective diffusion of particles under electrical double-layer forces. Journal of Colloid and Interface Science, 1978, 64, 580-583.	9.4	6
82	The influence of relative velocity on the eddy structure between two spheres in Stokes flow. International Journal of Multiphase Flow, 1978, 4, 553-561.	3.4	2
83	Interfacial resistance to interphase mass transfer in quiescent two-phase systems. AICHE Journal, 1978, 24, 246-254.	3.6	29
84	Momentum-Balance Aspects of Free-Settling Theory. III. Transient Compression Resistance. Separation Science and Technology, 1978, 13, 753-766.	2.5	16
85	Wall effects in a diamondâ€anvil pressureâ€cell fallingâ€sphere viscometer. Journal of Applied Physics, 1979, 50, 3180-3184.	2.5	16
86	Noninertial particle transfer to the rotating disc under an external force field (laminar flow). Chemical Engineering Science, 1979, 34, 1041-1049.	3.8	49
87	The effects of direct and hydrodynamic forces on macromolecular diffusion. Chemical Physics, 1979, 38, 29-41.	1.9	29
88	Experimental implications of a Markov model for sedimentation. Journal of Mathematical Analysis and Applications, 1979, 72, 150-176.	1.0	18
89	The hydrodynamic force resisting the approach of a sphere to a plane permeable wall. Journal of Colloid and Interface Science, 1979, 69, 78-85.	9.4	76
90	Fine particle deposition in smooth parallel-plate channels. Journal of Colloid and Interface Science, 1979, 72, 81-97.	9.4	182
91	Rapid brownian coagulation of colloidal dispersions Journal of Chemical Engineering of Japan, 1979, 12, 460-465.	0.6	39
92	On the slow viscous rolling of a sphere in contact with a permeable surface. Mathematika, 1980, 27, 104-112.	0.5	2
93	Collection of submicron particles in electro-flotation. Chemical Engineering Science, 1980, 35, 1097-1105.	3.8	44

#	Article	IF	Citations
94	High gradient magnetic separation in a viscous flow field. AICHE Journal, 1980, 26, 1041-1044.	3.6	3
95	Adsorption of brownian hydrosols onto a rotating disc aided by a uniform applied force. Journal of Colloid and Interface Science, 1980, 76, 32-47.	9.4	54
96	Deposition of particles onto the rotating disk under transient conditions. Journal of Colloid and Interface Science, 1980, 78, 559-562.	9.4	15
97	Deposition of latex particles on alumina fibers. Colloids and Surfaces, 1980, 1, 313-334.	0.9	77
98	Effect of a horizontal plane boundary on a falling horizontal cylinder at low Reynolds number. Physics of Fluids, 1980, 23, 853.	1.4	2
99	Investigation on fine particle deposition from flowing suspensions onto planar surfaces. Powder Technology, 1980, 27, 125-136.	4.2	20
100	A strong interaction theory for the creeping motion of a sphere between plane parallel boundaries. Part 1. Perpendicular motion. Journal of Fluid Mechanics, 1980, 99, 739-753.	3.4	151
101	Discussion of "comments on the paper â€experimental investigation of dendritic deposition of aerosol particlesâ€â€™. Journal of Aerosol Science, 1980, 11, 571-575.	3.8	2
102	Axisymmetric Stokes flows due to a rotlet or stokeslet near a hole in a plane wall: filtration flows. Journal of Fluid Mechanics, 1981, 103, 183.	3.4	23
103	A Model of Lubrication Filtration. Journal of Lubrication Technology, 1981, 103, 81-89.	0.1	4
104	Measurement of fluid resistance correction factor for a sphere moving through a viscous fluid toward a plane surface. AICHE Journal, 1981, 27, 168-170.	3.6	11
105	Adhesion and detachment of biological cellsin vitro. Progress in Surface Science, 1981, 11, 65-137.	8.3	51
106	On the departure of a sphere from contact with a permeable membrane. Journal of Engineering Mathematics, 1981, 15, 65-75.	1.2	19
107	Experimental wall correction factors of single solid spheres in triangular and square cylinders, and parallel plates. International Journal of Multiphase Flow, 1981, 7, 41-46.	3.4	63
108	Long nonstationary transitions in particle deposition under external forces. Journal of Colloid and Interface Science, 1981, 79, 381-389.	9.4	9
109	Deposition of particles under external forces in laminar flow through parallel-plate and cylindrical channels. Journal of Colloid and Interface Science, 1981, 80, 340-356.	9.4	158
110	Deposition of brownian particles onto cylindrical collectors. Journal of Colloid and Interface Science, 1981, 84, 497-518.	9.4	80
111	Lowâ€Reynoldsâ€number flow between converging spheres. Mathematika, 1982, 29, 58-66.	0.5	81

#	Article	IF	CITATIONS
112	Kinetic Theory of the Flotation of Small Particles. Russian Chemical Reviews, 1982, 51, 51-67.	6.5	34
113	Variational theorem for the generalized diffusion matrix. Journal of Chemical Physics, 1982, 76, 6124-6132.	3.0	13
114	Axial Dispersion of Sedimented Colloids. Separation Science and Technology, 1982, 17, 1587-1607.	2.5	7
115	Viscosity measurement by means of falling spheres compared with capillary viscometry. Journal of Physics E: Scientific Instruments, 1982, 15, 1313-1321.	0.7	20
117	Gravitational and zero-drag motion of a sphere of arbitrary size in an inclined channel at low Reynolds number. Journal of Fluid Mechanics, 1982, 124, 27.	3.4	25
118	Axisymmetric stagnation flow of a spherical particle near a finite planar surface at zero Reynolds number. Journal of Fluid Mechanics, 1982, 122, 273.	3.4	20
119	General theory for the creeping motion of a finite sphere along the axis of a circular orifice. Journal of Fluid Mechanics, 1982, 117, 143-170.	3.4	35
120	Motion of a contact line. Physics of Fluids, 1982, 25, 3.	1.4	34
121	The rheological behaviour of Ca(OH)2 suspensions in water. Rheologica Acta, 1982, 21, 590-592.	2.4	2
122	Inviscid approximation trajectories in high gradient magnetic separation. IEEE Transactions on Magnetics, 1982, 18, 792-795.	2.1	19
123	Transfer of brownian particles to continuous moving surfaces. Chemical Engineering Science, 1982, 37, 1513-1522.	3.8	15
124	Particle transfer to a plate in uniform flow. Chemical Engineering Science, 1982, 37, 869-880.	3.8	21
125	A comprehensive equation for the rate of adsorption of colloidal particles and for stability ratios. Colloids and Surfaces, 1982, 4, 17-31.	0.9	22
126	Memory effects in the diffusion of an interacting polydisperse suspension. Physica A: Statistical Mechanics and Its Applications, 1982, 111, 577-590.	2.6	17
127	Surfactant adsorption dynamics. Journal of Colloid and Interface Science, 1982, 86, 239-253.	9.4	19
128	Particle adhesion and removal in model systems. Journal of Colloid and Interface Science, 1982, 89, 9-15.	9.4	32
129	Kinetics of coating by colloidal particles. Journal of Colloid and Interface Science, 1982, 89, 232-244.	9.4	121
130	Theory for vesicleâ€"vesicle and vesicle-plasmalemma interactions. Journal of Colloid and Interface Science, 1982, 90, 390-409.	9.4	7

#	Article	IF	CITATIONS
131	Extensions and refinements of a Markov model for sedimentation. Journal of Mathematical Analysis and Applications, 1982, 86, 442-470.	1.0	28
132	The thermodynamic driving force in mutual diffusion of hard spheres. Chemical Physics, 1982, 65, 217-223.	1.9	14
133	On the slow translation of a solid submerged in a fluid with a surfactant surface film—I. International Journal of Multiphase Flow, 1982, 8, 627-639.	3.4	2
134	On the hydrodynamic interaction of two spheres oscillating in a viscous fluid. ? I. Axisymmetrical case. Zeitschrift Fur Angewandte Mathematik Und Physik, 1982, 33, 344-357.	1.4	17
135	Model of mass transfer phenomena in whole blood. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1983, 155, 213-228.	0.1	0
136	A direct method for studying particle deposition onto solid surfaces. Colloid and Polymer Science, 1983, 261, 694-707.	2.1	252
137	The rheological behaviour of Ca(OH)2 suspensions. Rheologica Acta, 1983, 22, 41-50.	2.4	5
138	Particle transfer to solid surfaces. Advances in Colloid and Interface Science, 1983, 19, 183-252.	14.7	166
139	On the convective diffusion of fine particles in turbulent flow. Journal of Colloid and Interface Science, 1983, 92, 403-415.	9.4	7
140	Force and torque formulae for a sphere moving in an axisymmetric stokes flow with finite boundaries: asymmetric stokeslets near a hole in a plane wall. International Journal of Multiphase Flow, 1983, 9, 575-608.	3.4	15
141	Theory and experiment on the three-dimensional motion of a freely suspended spherical particle at the entrance to a pore at low Reynolds number. Chemical Engineering Science, 1983, 38, 583-596.	3.8	32
142	Particle adhesion and removal in model systemsâ€"VIII. Chemical Engineering Science, 1983, 38, 1901-1908.	3.8	29
143	On the slow translation of a solid submerged in a fluid with a surfactant surface film—II. International Journal of Multiphase Flow, 1983, 9, 227-250.	3.4	3
144	Model of mass transfer phenomena in whole blood. Bioelectrochemistry, 1983, 10, 213-228.	1.0	11
145	Dynamic interactions between approaching surfaces of biological interest. Progress in Surface Science, 1983, 14, 295-424.	8.3	81
146	Resistance coefficient of a solid sphere approaching plane and curved boundaries. Journal of Colloid and Interface Science, 1983, 96, 204-213.	9.4	49
147	Fine particle deposition in laminar flow through parallel plate channels. Journal of Colloid and Interface Science, 1983, 94, 140-144.	9.4	2
148	High-gradient magnetic separation of magnetic colloids and suspensions. Journal of Magnetism and Magnetic Materials, 1983, 39, 147-151.	2.3	12

#	Article	IF	Citations
149	Resistance and stability of a line of particles moving near a wall. Journal of Fluid Mechanics, 1983, 132, 185-196.	3.4	26
150	Some General Solutions and Theorems Pertaining to the Creeping Motion Equations. Mechanics of Fluids and Transport Processes, 1983, , 58-95.	0.1	1
151	Wall Effects on the Motion of a Single Particle. Mechanics of Fluids and Transport Processes, 1983, , 286-357.	0.1	6
152	The approach of a sphere to an interface. Physics of Fluids, 1983, 26, 2035.	1.4	12
153	Behaviour of a Single Particle and Classification in Rotating Tilted Liquid Column. Journal of the Society of Powder Technology, Japan, 1983, 20, 202-210.	0.1	4
154	Kinetic Theory of Flotation of Small Particles. , 1984, , 71-113.		35
155	Theory of detachment of colloidal particles from flat surfaces exposed to flow. Colloids and Surfaces, 1984, 12, 151-178.	0.9	125
156	Dissociation kinetics of secondary-minimum flocculated colloidal particles. Journal of Colloid and Interface Science, 1984, 102, 400-409.	9.4	29
157	Kinetics of particle accumulation at collector surfaces. I. Approximate analytical solutions. Journal of Colloid and Interface Science, 1984, 97, 68-90.	9.4	47
158	A simple interpolation formula for the rate of approach of particles or cells with tension-controlled shapes at arbitrary separations. Journal of Colloid and Interface Science, 1984, 98, 269-271.	9.4	13
159	On mechanical aspects of vesicular transport. Journal of Theoretical Biology, 1984, 111, 91-113.	1.7	4
160	Theory on colloidal double-layer interactions. AICHE Journal, 1984, 30, 7-14.	3.6	14
161	Hydrodynamics of interaction of particles (including cells) with surfaces. Progress in Surface Science, 1984, 15, 369-399.	8.3	5
162	Antisymmetric stresses induced by the rigid-body rotation of dipolar suspensions. International Journal of Engineering Science, 1984, 22, 645-682.	5.0	39
163	Particle adhesion and removal in model systemsâ€"IX. Chemical Engineering Science, 1984, 39, 1271-1276.	3.8	12
164	Wall effects on a sphere translating at constant velocity. Journal of Fluid Mechanics, 1984, 149, 235.	3.4	67
165	Energy dissipation during flow of coagulating concentrated suspensions. Powder Technology, 1984, 37, 275-287.	4.2	4
166	Particle motion in Stokes flow near a plane fluid–fluid interface. Part 2. Linear shear and axisymmetric straining flows. Journal of Fluid Mechanics, 1984, 149, 275.	3.4	38

#	ARTICLE	IF	CITATIONS
167	On the deformation of two droplets in a quasisteady stokes flow. International Journal of Multiphase Flow, 1985, 11, 721-738.	3.4	10
168	An analytical model of tracer diffusivity in colloid suspensions. Physica A: Statistical Mechanics and Its Applications, 1985, 133, 152-172.	2.6	13
169	Kinetics of particle deposition from a stagnant suspension: Application to blood platelets. Journal of Colloid and Interface Science, 1985, 106, 360-366.	9.4	6
170	A Brownian dynamics simulation of aerosol deposition onto spherical collectors. Journal of Colloid and Interface Science, 1985, 104, 375-389.	9.4	106
171	Transport of colloidal particles over energy barriers. Journal of Colloid and Interface Science, 1985, 107, 278-282.	9.4	22
172	Hydrodynamic resistance of aggregates approaching a solid surface. Journal of Colloid and Interface Science, 1985, 107, 477-487.	9.4	2
173	The effects of surface inhomogeneities on the interactions in colloidal systems and colloid stability. Advances in Colloid and Interface Science, 1985, 24, 283-319.	14.7	68
174	The effect of segment/boundary hydrodynamic interactions on the dynamics of adsorbed polymer chains subjected to flow. Journal of Colloid and Interface Science, 1985, 107, 308-313.	9.4	2
175	On thermophoresis of relatively large aerosol particles suspended near a plate. Journal of Colloid and Interface Science, 1985, 107, 418-428.	9.4	5
176	Hydrodynamical interaction of two emulsion droplets at small separations. Colloid and Polymer Science, 1985, 263, 587-593.	2.1	4
177	Spatially periodic suspensions of convex particles in linear shear flows. II. Rheology. International Journal of Multiphase Flow, 1985, 11, 387-417.	3.4	47
178	Removal of colloidal particles in electroflotation. AICHE Journal, 1985, 31, 201-208.	3.6	34
179	Influence of Wall-Retarded Transport on Retention and Plate Height in Field-Flow Fractionation. Separation Science and Technology, 1985, 20, 699-724.	2.5	8
180	Coagulation in processing of ceramic suspensions: Powder size distribution effects. Journal of Applied Physics, 1985, 58, 3871-3879.	2.5	16
181	The Stokes drag on a horizontal cylinder falling toward a horizontal plane. Physics of Fluids, 1985, 28, 2961.	1.4	11
182	The motion of a spherical particle suspended in a turbulent flow near a plane wall. Physics of Fluids, 1985, 28, 806.	1.4	73
183	INVITED REVIEW STABILITY OF COLLOIDAL DISPERSIONS. Chemical Engineering Communications, 1985, 33, 301-324.	2.6	22
184	Boundary effects on electrophoretic motion of colloidal spheres. Journal of Fluid Mechanics, 1985, 153, 417.	3.4	267

#	Article	IF	CITATIONS
185	A singularity method for calculating hydrodynamic forces and particle velocities in low-Reynolds-number flows. Journal of Fluid Mechanics, 1985, 156, 1.	3.4	63
186	On the fine structure of osmosis including three-dimensional pore entrance and exit behaviour. Journal of Fluid Mechanics, 1986, 162, 415.	3.4	26
187	On the inertial impaction of small particles at the entrance of a pore including hydrodynamic and molecular wall interaction effects. Chemical Engineering Science, 1986, 41, 2845-2864.	3.8	15
188	Hydrodynamic resistance of an arbitrary particle translating and rotating near a fluid interface. International Journal of Multiphase Flow, 1986, 12, 807-837.	3.4	4
189	Kinetics of latex particle deposition from flowing suspensions. Journal of Colloid and Interface Science, 1986, 110, 188-200.	9.4	69
190	Gravity and cell adhesion. Journal of Colloid and Interface Science, 1986, 114, 261-266.	9.4	19
191	Dispersion of flexible polymer chains in confined geometries. Korean Journal of Chemical Engineering, 1986, 3, 153-163.	2.7	1
192	The limits of lubrication theory for a disk approaching a parallel plane wall. Physics of Fluids, 1987, 30, 939.	1.4	8
193	Effects of Nonspecific Cell/Surface Interactions on Cell Affinity Chromatographic Separations. Materials Research Society Symposia Proceedings, 1987, 110, 739.	0.1	0
194	Dynamics of rigid and flexible polymer chains in confined geometries III. Wall-bead hydrodynamic interaction. Korean Journal of Chemical Engineering, 1987, 4, 37-45.	2.7	0
195	Diffusional detachment of colloidal particles from solid/solution interfaces. Advances in Colloid and Interface Science, 1987, 27, 1-42.	14.7	64
196	The drag on two spheres in contact in the slip flow regime. Zeitschrift Fur Angewandte Mathematik Und Physik, 1987, 38, 92-101.	1.4	0
197	The evaluation of tangential forces due to surface inhomogeneties in the particle deposition process. Colloids and Surfaces, 1987, 22, 187-205.	0.9	43
198	Kinetics of particle detachment. Journal of Colloid and Interface Science, 1987, 118, 473-481.	9.4	15
199	Suspension mechanics for particle contamination control. Chemical Engineering Science, 1988, 43, 991-1016.	3.8	21
200	Hydrosol deposition in granular beds. Chemical Engineering Science, 1988, 43, 289-302.	3.8	61
201	Low reynolds number motion of a droplet between two parallel plates. International Journal of Multiphase Flow, 1988, 14, 483-506.	3.4	50
202	Polymer coatings with a destabilizing action on suspensions. Colloids and Surfaces, 1988, 31, 385-405.	0.9	4

#	Article	IF	CITATIONS
203	The thermophoretic force between a sphere and a plane surface. Journal of Colloid and Interface Science, 1988, 122, 110-119.	9.4	12
204	The effect of Maxwell slip on the aerodynamic collision and rebound of spherical particles. Journal of Colloid and Interface Science, 1988, 121, 226-239.	9.4	22
205	A theoretical model for nuclepore filters including hydrodynamic and molecular wall interaction effects. Journal of Colloid and Interface Science, 1988, 121, 543-557.	9.4	19
206	Mobility matrix for arbitrary spherical particles in solution. Physica A: Statistical Mechanics and Its Applications, 1988, 149, 373-394.	2.6	71
207	Particle separation and characterization by sedimentation/cyclical-field field-flow fractionation. Analytical Chemistry, 1988, 60, 1129-1135.	6.5	28
208	Normal and reverse pulse voltammetry at microdisk electrodes. Analytical Chemistry, 1988, 60, 1135-1141.	6.5	39
209	Deposition of oral streptococci and polystyrene latices onto glass in a parallel plate flow cell. Biofouling, 1988, 1, 101-112.	2.2	63
210	Electrophoresis of a colloidal sphere parallel to a dielectric plane. Journal of Fluid Mechanics, 1988, 194, 377.	3.4	103
211	First-order wall curvature effects upon the Stokes resistance of a spherical particle moving in close proximity to a solid wall. Journal of Fluid Mechanics, 1988, 193, 533.	3.4	17
212	Modelling Collisional Stresses in a Dense Fluid-Solid Mixture. Journal of Fluids Engineering, Transactions of the ASME, 1988, 110, 85-90.	1.5	5
213	Shortâ€time diffusion coefficients and high frequency viscosity of dilute suspensions of spherical Brownian particles. Journal of Chemical Physics, 1988, 89, 1049-1054.	3.0	129
214	Particulate Fouling of Heat Transfer Surfaces: Mechanisms and Models. , 1988, , 143-164.		48
215	Physicochemical Aspects of Particle Removal in Depth Filtration. Journal - American Water Works Association, 1988, 80, 54-64.	0.3	116
216	The hydrodynamic interaction of two slowly evaporating spheres. Physics of Fluids A, Fluid Dynamics, 1989, 1, 1656-1665.	1.6	6
217	Combined side wall and bottom wall effects on the Stokes velocity of a disk moving broadside. Physics of Fluids A, Fluid Dynamics, 1989, 1, 1625-1631.	1.6	8
218	Numerical Calculation of Bubble Growth in Nucleate Boiling From Inception Through Departure. Journal of Heat Transfer, 1989, 111, 474-479.	2.1	134
219	Particle transfer and deposition from flowing colloid suspensions. Colloids and Surfaces, 1989, 35, 283-308.	0.9	29
220	Effects of particle-surface interactions on deposition and re-entrainment of a particulate fouling system. Geothermics, 1989, 18, 327-335.	3.4	6

#	Article	IF	CITATIONS
221	The motion of a spherical particle in the stokes flow outside a circular orifice. Applied Mathematics and Mechanics (English Edition), 1989, 10, 829-841.	3.6	0
222	Analysis of particle-wall interaction. Chemical Engineering Science, 1989, 44, 2871-2879.	3.8	13
223	Deposition of polystyrene latex particles toward polymethylmethacrylate in a parallel plate flow cell. Journal of Colloid and Interface Science, 1989, 132, 382-394.	9.4	61
224	Kinetically caused saturation in the deposition of cellsâ€"effects of saturation at the secondary minimum and of excluded area. Journal of Colloid and Interface Science, 1989, 128, 592-601.	9.4	10
225	Low Reynolds number hydrodynamic interaction of a solid particle with a planar wall. International Journal for Numerical Methods in Fluids, 1989, 9, 651-688.	1.6	12
226	The lubrication force between spherical drops, bubbles and rigid particles in a viscous fluid. International Journal of Multiphase Flow, 1989, 15, 627-638.	3.4	43
227	A two-equation turbulence model for dispersed dilute confined two-phase flows. International Journal of Multiphase Flow, 1989, 15, 119-133.	3.4	159
228	A theoretical study of the motion of a viscous drop toward a fluid interface at low Reynolds number. Journal of Fluid Mechanics, 1989, 201, 123.	3.4	68
229	Dynamic simulation of bounded suspensions of hydrodynamically interacting particles. Journal of Fluid Mechanics, 1989, 200, 39-67.	3.4	91
230	Adenosine diphosphate-induced aggregation of human platelets in flow through tubes. I. Measurement of concentration and size of single platelets and aggregates. Biophysical Journal, 1989, 56, 817-828.	0.5	25
231	The effect of lateral viscosity variations on surface observables. Geophysical Research Letters, 1989, 16, 535-538.	4.0	17
232	Measurement of the hydrodynamic surface roughness of noncolloidal spheres. Physics of Fluids A, Fluid Dynamics, 1989, 1, 52-60.	1.6	121
233	Thermophoretic force on a spherical particle drifting near a plate Kagaku Kogaku Ronbunshu, 1990, 16, 739-746.	0.3	1
234	Analysis of particle trajectories of small particles in flotation when the particles and bubbles are both charged. Canadian Journal of Chemical Engineering, 1990, 68, 614-621.	1.7	28
235	Deposition of polystyrene particles in a parallel plate flow cell. 1. the influence of collector surface properties on the experimental deposition rate. Colloids and Surfaces, 1990, 47, 323-336.	0.9	39
236	Shear thickening (dilatancy) in concentrated dispersions. AICHE Journal, 1990, 36, 321-332.	3.6	265
237	Particle trajectories near freely rotating spheroids in simple shear flow. International Journal of Multiphase Flow, 1990, 16, 713-725.	3.4	3
238	Accumulation and transport of Brownian particles at solid surfaces: Aerosol and hydrosol deposition processes. Journal of Colloid and Interface Science, 1990, 136, 552-573.	9.4	17

#	Article	IF	CITATIONS
239	Brownian motion of a single microscopic sphere in a colloidal force field. Faraday Discussions of the Chemical Society, 1990, 90, 209.	2.2	45
240	Deposition ofleuconostoc mesenteroidesandstreptococcus thermophilusto solid substrata in a parallel plate flow cell. Biofouling, 1990, 2, 55-63.	2.2	60
241	The influence of collector and bacterial cell surface properties on the deposition of oral streptococci in a parallel plate flow cell. Journal of Adhesion Science and Technology, 1990, 4, 765-777.	2.6	53
242	Receptor-mediated cell attachment and detachment kinetics. II. Experimental model studies with the radial-flow detachment assay. Biophysical Journal, 1990, 58, 857-872.	0.5	104
243	Specific adhesion of glycophorin liposomes to a lectin surface in shear flow. Biophysical Journal, 1990, 57, 765-777.	0.5	37
244	Buoyancy-driven motion of a deformable drop toward a planar wall at low Reynolds number. Journal of Fluid Mechanics, 1990, 213, 287.	3.4	44
245	Numerical Multipole and Boundary Integral Equation Techniques in Stokes Flow. Annual Review of Fluid Mechanics, 1990, 22, 275-316.	25.0	81
246	Hydrosol deposition in fibrous beds. Separation and Purification Technology, 1991, 1, 122-131.	0.7	11
247	Interparticle and Particle-Surface Gas Dynamic Interactions. Aerosol Science and Technology, 1991, 14, 418-433.	3.1	27
248	Vacancy diffusion in colloidal crystals. Journal of the Chemical Society, Faraday Transactions, 1991, 87, 391.	1.7	3
249	Frictional Force on a Small Spherical Particle under Sedimentation to a Plane Plate Kagaku Kogaku Ronbunshu, 1991, 17, 904-908.	0.3	1
250	Hydrodynamic interaction of a spherical particle with a planar boundary I. Free surface. Physica A: Statistical Mechanics and Its Applications, 1991, 171, 575-604.	2.6	31
251	Simulation of cell rolling and adhesion on surfaces in shear flow. Cell Biophysics, 1991, 18, 145-182.	0.4	9
252	Computer simulation of particle transport processes in flow through porous media. Chemical Engineering Science, 1991, 46, 1977-1993.	3.8	109
253	Effect of cationic electrolytes on the deposition rate of Brownian particles. AICHE Journal, 1991, 37, 1113-1116.	3.6	1
254	Trapping of solid particles at a wall in a turbulent flow. AICHE Journal, 1991, 37, 1529-1536.	3.6	22
255	Procedures for rapid calculation of the stability ratio of colloidal dispersions. Journal of Colloid and Interface Science, 1991, 142, 297-301.	9.4	11
256	Kinetics of capture of colloidal particles in packed beds under attractive double layer interactions. Journal of Colloid and Interface Science, 1991, 146, 337-352.	9.4	136

#	Article	IF	CITATIONS
257	A mathematical model for the cleansing of silicon substrates by fluid immersion. Journal of Colloid and Interface Science, 1991, 144, 210-221.	9.4	20
258	A new method for determining hydrodynamic effects on the collision of two spheres. Journal of Statistical Physics, 1991, 62, 945-960.	1,2	22
259	Wall-drag effect on diffusion of colloidal particles near surfaces: A photon correlation study. Physical Review A, 1991, 44, 6677-6685.	2.5	65
260	THE NORMAL FORCE EXERTED BY A SECOND ORDER FLUID ON A SMALL SPHERE TOUCHING A PLANE. Chemical Engineering Communications, 1991, 100, 65-75.	2.6	0
261	Adhesion of Mutans Streptococci to Glass With and Without a Salivary Coating as Studied in a Parallel-plate Flow Chamber. Journal of Dental Research, 1992, 71, 491-500.	5,2	57
262	The diamondâ€anvil cell as a highâ€pressure viscometer. Journal of Applied Physics, 1992, 71, 2071-2081.	2.5	68
263	INFLUENCE OF ELECTROSTATIC INTERACTIONS ON THE DEPOSITION EFFICIENCIES OF COAGULASE-NEGATIVE STAPHYLOCOCCI TO COLLECTOR SURFACES IN A PARALLEL PLATE FLOW CHAMBER. Journal of Dispersion Science and Technology, 1992, 13, 447-458.	2.4	12
264	Faraday research article. Structure and composition of adsorbed protein layers and the relationship to emulsion stability. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 2973.	1.7	151
265	Kinetics of heterocoagulation. Part.2â€"The effect of the discreteness of surface charge. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 2379-2386.	1.7	96
266	Simulation of cell rolling and adhesion on surfaces in shear flow: general results and analysis of selectin-mediated neutrophil adhesion. Biophysical Journal, 1992, 63, 35-57.	0.5	510
267	Theoretical investigation of colloid separation from dilute aqueous suspensions by oppositely charged granular media. Separation and Purification Technology, 1992, 2, 2-12.	0.7	34
268	Shear flow over a wall with suction and its application to particle screening. Journal of Fluid Mechanics, 1992, 243, 489.	3.4	15
269	Motion of cells sedimenting on a solid surface in a laminar shear flow. Biophysical Journal, 1992, 61, 204-215.	0.5	43
270	PREDICTION OF PRESSURE BUILD UP IN A MICRO CAPILLARY DUE TO PARTICLE RETENTION. Chemical Engineering Communications, 1992, 117, 433-453.	2.6	5
271	CHARACTERIZATION OF NEAR-WALL HYDRODYNAMIC LIFT FORCES USING SEDIMENTATION FIELD-FLOW FRACTIONATION. Chemical Engineering Communications, 1992, 111, 121-147.	2.6	133
272	Settling velocity of a sphere falling between two concentric cylinders filled with a viscous fluid. Industrial & Description of the content o	3.7	0
273	Particle transport in clean membrane filters in laminar flow. Environmental Science & Emp; Technology, 1992, 26, 1611-1621.	10.0	42
274	Effect of divalent cations on the adhesion rate of cellular surfaces with ionizable groups. Colloid and Polymer Science, 1992, 270, 590-597.	2.1	O

#	Article	IF	CITATIONS
275	Hydrodynamic interaction of a spherical particle with a planar boundary. Physica A: Statistical Mechanics and Its Applications, 1992, 189, 447-477.	2.6	55
276	Particle adhesion in model systems. Journal of Colloid and Interface Science, 1992, 151, 421-432.	9.4	44
277	Translation and rotation of spheres settling in square and circular conduits: Experiments and numerical predictions. International Journal of Multiphase Flow, 1992, 18, 1061-1075.	3.4	25
278	Distribution in the various types of particle trajectories near freely rotating spheroids in simple shear flow. International Journal of Multiphase Flow, 1992, 18, 295-305.	3.4	1
279	Creeping axisymmetric flow around a solid particle near a permeable obstacle. AICHE Journal, 1992, 38, 1213-1228.	3.6	18
280	Slow motion of multiple droplets in arbitrary three-dimensional configurations. AICHE Journal, 1992, 38, 1881-1904.	3.6	20
281	Hydrodynamic interactions of two permeable particles moving slowly along their centerline. Chemical Engineering Science, 1993, 48, 2889-2900.	3.8	15
282	Rates of particle deposition from aqueous suspensions in turbulent flow: a comparison of theory with experiment. Chemical Engineering Science, 1993, 48, 2189-2195.	3.8	13
283	Boundary effects on osmophoresis: motion of a vesicle normal to a plane wall. Chemical Engineering Science, 1993, 48, 609-616.	3.8	7
284	Influence of ionic strength and shear rate on the desorption of polystyrene particles from a glass collector as studied in a parallel-plate flow chamber. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1993, 80, 279-285.	4.7	15
285	Mass transfer of surfactants and hydrodynamic interaction at small separations in emulsion systems 1. Scaling concepts. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1993, 74, 259-266.	4.7	9
286	Kinetics of colloid particle adsorption from slot impinging jets. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1993, 75, 185-193.	4.7	21
287	Dynamics of colloid deposition in porous media: Modeling the role of retained particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1993, 73, 49-63.	4.7	119
288	Second-Kind Integral Equation Formulation for the Slow Motion of a Particle of Arbitrary Shape Near a Plane Wall in a Viscous Fluid. SIAM Journal on Applied Mathematics, 1993, 53, 60-70.	1.8	5
289	Effect of hydrodynamic interactions on the distribution of adhering Brownian particles. Physical Review Letters, 1993, 70, 623-626.	7.8	64
290	Hindered diffusion of a single sphere very near a wall in a nonuniform force field. Journal of Chemical Physics, 1993, 98, 7552-7564.	3.0	57
291	Precise measurement of particle–wall hydrodynamic interactions at low Reynolds number using laser interferometry. Physics of Fluids A, Fluid Dynamics, 1993, 5, 3-12.	1.6	27
292	Calculation of particle deposition rate under unfavourable particle–surface interactions. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 3443-3452.	1.7	38

#	Article	IF	Citations
293	Brownian particle deposition in a directly simulated turbulent channel flow. Physics of Fluids A, Fluid Dynamics, 1993, 5, 1427-1432.	1.6	95
294	The effect of cationic electrolytes on the adhesion of cells. Biotechnology Advances, 1993, 11, 711-724.	11.7	2
295	Measurement of the translational and rotational velocities of a noncolloidal sphere rolling down a smooth inclined plane at low Reynolds number. Physics of Fluids A, Fluid Dynamics, 1993, 5, 13-24.	1.6	68
296	Modal impedances for two spheres in a thermoviscous fluid. Journal of the Acoustical Society of America, 1993, 94, 2205-2214.	1.1	16
297	Dynamics of colloid deposition in porous media: modeling the role of retained particles., 1993,, 49-63.		0
298	Motion of Small Particles in Solution with a Interfacial Tension Gradient and Engulfment of the Particles by Solidifying Interface. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 1994, 80, 527-532.	0.4	41
299	Separation of Cells and Cell-Sized Particles by Continuous SPLITT Fractionation Using Hydrodynamic Lift Forces. Separation Science and Technology, 1994, 29, 2493-2522.	2.5	38
300	Particle Trajectories in Field-Flow Fractionation and SPLITT Fractionation Channels. Separation Science and Technology, 1994, 29, 11-45.	2.5	31
301	Influence of hydrodynamic interactions on the adsorption process of large particles. Physical Review Letters, 1994, 73, 114-117.	7.8	35
302	Confined Brownian motion. Physical Review E, 1994, 49, 5158-5163.	2.1	170
303	Numerical computation of particles-turbulence interaction. International Journal of Multiphase Flow, 1994, 20, 211-232.	3.4	57
304	Kinetics of localized adsorption of colloid particles. Advances in Colloid and Interface Science, 1994, 48, 151-280.	14.7	319
305	Slow motion of an arbitrary axisymmetric body along its axis of revolution and normal to a plane surface. International Journal of Multiphase Flow, 1994, 20, 185-210.	3.4	17
306	Dynamic similarity in fluidization. International Journal of Multiphase Flow, 1994, 20, 331-386.	3.4	153
307	Sieve mechanism of microfiltration. Journal of Membrane Science, 1994, 89, 199-213.	8.2	33
308	Motion of model leukocytes near a wall in simple shear flow. Biotechnology Progress, 1994, 10, 97-108.	2.6	12
309	CHARACTERIZATION OF HYDRODYNAMIC LIFT FORCES BY FIELD-FLOW FRACTIONATION. INERTIAL AND NEAR-WALL LIFT FORCES. Chemical Engineering Communications, 1994, 130, 143-166.	2.6	97
310	Motion and deposition of non-brownian particles in upflow collectors. Separation and Purification Technology, 1994, 4, 47-54.	0.7	16

#	Article	IF	CITATIONS
311	Particle deposition on ideal collectors from dilute flowing suspensions: Mathematical formulation, numerical solution, and simulations. Separation and Purification Technology, 1994, 4, 186-212.	0.7	144
312	Three-dimensional tracking of motile bacteria near a solid planar surface Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 6195-6199.	7.1	328
313	Colloidal hydrodynamics and transport. , 1995, , 68-109.		1
315	Modelling colloid transport in groundwater; the prediction of colloid stability and retention behaviour. Advances in Colloid and Interface Science, 1995, 54, 129-208.	14.7	65
316	Effect of multivalent cations on the adhesion rate of cellular surfaces bearing ionizable groups. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1995, 96, 155-163.	4.7	3
317	Fine particle deposition in laminar and turbulent flows. Canadian Journal of Chemical Engineering, 1995, 73, 785-792.	1.7	24
318	Modelling of particle deposition onto ideal collectors. , 1995, , 113-156.		3
319	Redistribution of Particles during Solidification ISIJ International, 1995, 35, 693-699.	1.4	54
320	Stokes Drag at the Molecular Level. Physical Review Letters, 1995, 75, 232-235.	7.8	31
321	Hydrodynamic interaction of particles with grafted polymer brushes and applications to rheology of colloidal dispersions. Physical Review E, 1995, 52, 730-737.	2.1	58
322	Study of the sedimentation of a single particle toward a flat plate. Journal of Chemical Physics, 1995, 103, 10714-10725.	3.0	39
323	Dynamic Scaling of Wetting Layer Growth. Europhysics Letters, 1995, 31, 19-24.	2.0	13
324	Trajectory Modeling of Non-Brownian Particle Flotation Using an Extended Derjaguin-Landau-Verwey-Overbeek Approach. Environmental Science & Environmental Science & 1346-1352.	10.0	15
325	Transport effects on the kinetics of protein-surface binding. Biophysical Journal, 1995, 68, 2251-2260.	0.5	34
326	[37] Use of flow chamber devices and image analysis methods to study microbial adhesion. Methods in Enzymology, 1995, 253, 455-477.	1.0	67
327	Pore Diffusion of Nonspherical Brownian Particles. Industrial & Engineering Chemistry Research, 1995, 34, 3606-3620.	3.7	6
328	Colloidal hydrodynamics and transport. , 1995, , 68-109.		0
329	Modelling of particle deposition onto ideal collectors. , 1995, , 113-156.		1

#	Article	IF	CITATIONS
330	Role of erythrocytes in leukocyte-endothelial interactions: mathematical model and experimental validation. Biophysical Journal, 1996, 71, 466-478.	0.5	113
331	ON BROWNIAN DYNAMICS WITH HYDRODYNAMIC WALL EFFECTS: A PROBLEM IN DIFFUSION NEAR A FIBER, AND THE MEANING OF THE NO-FLUX BOUNDARY CONDITION. Chemical Engineering Communications, 1996, 148-150, 623-651.	2.6	2
332	Influence of Direction and Type of Applied Force on the Detachment of Macromolecularly-Bound Particles from Surfaces. Langmuir, 1996, 12, 2271-2282.	3.5	107
333	The Effect of Slip on the Motion of Two Droplets and of a Droplet Close to a Plane Surface of a Liquid. Aerosol Science and Technology, 1996, 25, 101-112.	3.1	15
334	Engulfment and Pushing of Foreign Particles Such As Inclusions and Bubbles at Solidifying Interface. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 1996, 82, 8-14.	0.4	10
335	Measuring bonds between surface-associated molecules. Journal of Immunological Methods, 1996, 196, 105-120.	1.4	44
336	Effect of viscosity on retention time and hydrodynamic lift forces in sedimentation/steric field-flow fractionation. Chemical Engineering Science, 1996, 51, 4477-4488.	3.8	64
337	Shear-induced alignment of nonspherical Brownian particles near walls. AICHE Journal, 1996, 42, 2729-2742.	3.6	13
338	Deposition of fine particles from a turbulent liquid flow: Experiments and numerical predictions. Chemical Engineering Science, 1996, 51, 3491-3503.	3.8	29
339	Sedimentation of a sphere near a plane wall: weak non-Newtonian and inertial effects. Journal of Non-Newtonian Fluid Mechanics, 1996, 63, 201-233.	2.4	55
340	Motion of a solid sphere in a general flow near a plane boundary at zero Reynolds number. Journal of Engineering Mathematics, 1996, 30, 177-213.	1.2	2
341	Influence of hydrodynamic interactions on the ballistic deposition of colloidal particles on solid surfaces. Journal of Chemical Physics, 1996, 105, 7815-7827.	3.0	23
342	Stokes drag and lubrication flows: A molecular dynamics study. Physical Review E, 1996, 53, 4852-4864.	2.1	40
343	Diffusion of Brownian particles trapped between two walls: Theory and dynamic-light-scattering measurements. Physical Review B, 1996, 53, 12050-12056.	3.2	93
344	ON THE MODELLING OF PARTICLE-BODY INTERACTIONS IN STOKES FLOWS INVOLVING A SPHERE AND CIRCULAR DISC OR A TORUS AND CIRCULAR CYLINDER USING POINT SINGULARITIES. Chemical Engineering Communications, 1996, 148-150, 161-182.	2.6	3
345	HINDERED MOBILITY OF A RIGID SPHERE NEAR A WALL. Chemical Engineering Communications, 1996, 148-150, 105-122.	2.6	29
346	Hydrodynamic interactions between a particle and two rigid walls: Effect of surface roughness and many-body hydrodynamic interactions. Physics of Fluids, 1997, 9, 3929-3931.	4.0	6
347	Nonlinear dynamics of intermittent-contact mode atomic force microscopy. Physical Review B, 1997, 55, 14899-14908.	3.2	39

#	ARTICLE	IF	CITATIONS
348	On the asymptotic expansion of certain functions defined by infinite series. Mathematika, 1997, 44, 401-418.	0.5	3
349	Grand canonical Brownian dynamics simulation of colloidal adsorption. Journal of Chemical Physics, 1997, 107, 9157-9167.	3.0	103
350	Simulation of detachment of specifically bound particles from surfaces by shear flow. Biophysical Journal, 1997, 73, 517-531.	0.5	67
351	Wall Interactions. Mechanical Engineering Series, 1997, , 211-274.	0.2	0
352	The Caesar model for particle resuspension in turbulent flows. Journal of Aerosol Science, 1997, 28, S327-S328.	3.8	4
353	A coupled thermal-mechanical model for corona formation on Venus. Journal of Geophysical Research, 1997, 102, 6581-6595.	3.3	18
354	Lagrangian model on the turbulent motion of small solid particle in turbulent boundary layer flows. Applied Mathematics and Mechanics (English Edition), 1997, 18, 297-306.	3.6	0
355	Adsorption of colloidal particles: influence of transport (hydrodynamic interactions). Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1997, 127, 249-255.	4.7	1
356	Measuring particle interactions with total internal reflection microscopy. Current Opinion in Colloid and Interface Science, 1997, 2, 600-606.	7.4	66
357	Elements of particle deposition onto nonporous solid surfaces parallel to suspension flows. Experimental Thermal and Fluid Science, 1997, 14, 323-334.	2.7	79
358	Influence of transport on the adsorption of colloidal suspensions. Journal of Molecular Liquids, 1997, 71, 137-149.	4.9	0
359	Particles in a shear flow near a solid wall: Effect of nonsphericity on forces and velocities. International Journal of Multiphase Flow, 1997, 23, 155-182.	3.4	79
361	A Dynamic Model for the Attachment of a Brownian Particle Mediated by Discrete Macromolecular Bonds. Journal of Colloid and Interface Science, 1997, 190, 142-151.	9.4	11
362	Hydrodynamic drag force exerted on a highly porous sphere moving towards an impermeable plate. Chemical Engineering Science, 1998, 53, 3571-3578.	3.8	34
363	Kinetics of Particle Transport to a Solid Surface from an Impinging Jet under Surface and External Force Fields. Journal of Colloid and Interface Science, 1998, 208, 226-240.	9.4	41
364	Kinetic coefficients for brownian particle deposition on a filter. Chemical and Petroleum Engineering (English Translation of Khimicheskoe I Neftyanoe Mashinostroenie), 1998, 34, 775-779.	0.3	О
365	Effects of shear on particle motion near a surfaceâ€"application to resuspension. Journal of Aerosol Science, 1998, 29, 323-338.	3.8	10
366	Comprehensive Modeling of Precipitation and Fouling in Turbulent Pipe Flow. Industrial & Engineering Chemistry Research, 1998, 37, 1536-1550.	3.7	34

#	Article	IF	Citations
367	Studying Receptor-Mediated Cell Adhesion at the Single Molecule Level. Cell Adhesion and Communication, 1998, 5, 375-395.	1.7	27
368	Measurement of anisotropic Brownian motion near an interface by evanescent light-scattering spectroscopy. Physical Review E, 1998, 58, 6275-6280.	2.1	48
369	Lubricating motion of a sphere in a conical vessel. Physics of Fluids, 1998, 10, 1231-1233.	4.0	4
370	Experimental study of the interaction range and association rate of surface-attached cadherin 11. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9256-9261.	7.1	45
371	Molecular Simulation of Viscous Flow JSME International Journal Series B, 1998, 41, 353-360.	0.3	4
372	Effects of recirculating flow on U-937 cell adhesion to human umbilical vein endothelial cells. American Journal of Physiology - Heart and Circulatory Physiology, 1998, 275, H591-H599.	3.2	19
373	Behavior of Fine Bubbles in Front of the Solidifying Interface ISIJ International, 1999, 39, 553-562.	1.4	45
374	Asymptotic analysis of particle engulfmemt. Physical Review E, 1999, 60, 6180-6183.	2.1	12
375	Experiments on the motion of a solid sphere toward a wall: From viscous dissipation to elastohydrodynamic bouncing. Physics of Fluids, 1999, 11, 2803-2805.	4.0	65
376	The effect of sphere–wall interactions on particle motion in a viscoelastic suspension of FENE dumbbells. Journal of Non-Newtonian Fluid Mechanics, 1999, 85, 63-92.	2.4	24
377	Measurement of colloidal forces with TIRM. Advances in Colloid and Interface Science, 1999, 82, 93-125.	14.7	339
378	Physico-chemistry of initial microbial adhesive interactions $\hat{a} \in \text{``its mechanisms and methods for study.}$ FEMS Microbiology Reviews, 1999, 23, 179-230.	8.6	800
379	Physico-chemistry of initial microbial adhesive interactions – its mechanisms and methods for study. FEMS Microbiology Reviews, 1999, 23, 179-229.	8.6	343
380	Colloid Particle Adsorption in the Slot Impinging Jet Cell. Journal of Colloid and Interface Science, 1999, 209, 350-361.	9.4	23
381	Electrophoretic Motion of a Spherical Particle with a Thick Double Layer in Bounded Flows. Journal of Colloid and Interface Science, 1999, 213, 298-315.	9.4	100
382	Theory of interaction between a solid inclusion in a liquid with nonuniform viscosity with an advancing solidification front. Journal of Applied Physics, 1999, 86, 2291-2299.	2.5	7
383	Three-dimensional optical trapping and evanescent wave light scattering for direct measurement of long range forces between a colloidal particle and a surface. Review of Scientific Instruments, 1999, 70, 2627-2636.	1.3	38
384	Energetics of Proteinâ-'Interface Interactions and Its Effect on Protein Adsorption. Langmuir, 1999, 15, 6991-7001.	3.5	79

#	Article	IF	Citations
385	Size Dependence of the Stability of Emulsion Drops Pressed against a Large Interface. Langmuir, 1999, 15, 6764-6769.	3.5	56
386	The velocity of a circular disk moving edgewise in quasi-steady Stokes flow toward a plane boundary. Physics of Fluids, 1999, 11, 2463-2470.	4.0	4
387	Fluid Force Acting on a Particle Falling Toward a Wall 880-02 Nihon Kikai Gakkai Ronbunshū Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2000, 66, 2313-2319.	0.2	0
388	Kinetics of Diffusion-Controlled Adsorption of Colloid Particles and Proteins. Journal of Colloid and Interface Science, 2000, 229, 477-489.	9.4	116
389	Correlations for the particle deposition rate accounting for lift forces and hydrodynamic mobility reduction. Canadian Journal of Chemical Engineering, 2000, 78, 32-39.	1.7	10
390	High-gradient magnetically seeded filtration. Chemical Engineering Science, 2000, 55, 1101-1113.	3.8	60
391	Effective medium approximation and deposition of colloidal particles in fibrous and granular media. Advances in Colloid and Interface Science, 2000, 87, 1-74.	14.7	28
392	Estimate of sludge floc permeability. Chemical Engineering Journal, 2000, 80, 37-42.	12.7	26
393	Atomic force and optical force microscopy: applications to interfacial microhydrodynamics. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 174, 253-267.	4.7	12
394	Diffusion of an isolated colloidal sphere confined between flat plates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 174, 121-131.	4.7	17
395	Coupling of hydrodynamic and electric interactions in adsorption of colloidal particles. Advances in Colloid and Interface Science, 2000, 84, 47-142.	14.7	62
396	Boundary effect on slow motion of a composite sphere perpendicular to two parallel impermeable plates. Chemical Engineering Science, 2000, 55, 2441-2453.	3.8	13
397	Further discussion of "Particle engulfment and pushing by solidifying interfaces: Part II. microgravity experiments and theoretical analysis. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2000, 31, 1695-1700.	2.2	6
399	A dynamic model for the interaction between a solid particle and an advancing solid/liquid interface. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2000, 31, 2559-2568.	2.2	65
400	A mathematical model of aluminum depth filtration with ceramic foam filters: Part I. Validation for short-term filtration. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2000, 31, 491-502.	2.1	9
401	Interaction of two spheres in an unbounded stratified fluid. Zeitschrift Fur Angewandte Mathematik Und Physik, 2000, 51, 687-700.	1.4	0
402	Aerosol Particle Removal and Re-entrainment in Turbulent Channel Flows – A Direct Numerical Simulation Approach. Journal of Adhesion, 2000, 74, 441-493.	3.0	5
403	Transport in nonequilibrium systems with position-dependent mobility. Physical Review E, 2000, 62, 272-275.	2.1	31

#	Article	IF	CITATIONS
404	Near-field acoustic densimeter and viscosimeter. Review of Scientific Instruments, 2000, 71, 3860.	1.3	21
405	Hindered diffusion of colloidal particles very near to a wall: Revisited. Journal of Chemical Physics, 2000, 113, 1228-1236.	3.0	200
406	Dust resuspension by the flow around an impacting sphere. Journal of Fluid Mechanics, 2000, 403, 305-328.	3.4	68
407	Adhesive Dynamics Simulations of Sialyl-Lewisx/E-selectin-Mediated Rolling in a Cell-Free System. Biophysical Journal, 2000, 79, 1891-1902.	0.5	80
408	THE CÆSAR CODE FOR AEROSOL RESUSPENSION IN TURBULENT PIPE FLOWS. ASSESSMENT AGAINST THE STORM EXPERIMENTS. Journal of Aerosol Science, 2000, 31, 1061-1076.	3.8	22
409	Direct measurements of constrained Brownian motion of an isolated sphere between two walls. Physical Review E, 2000, 62, 3909-3919.	2.1	234
410	On the theory of ion transfer rates across the interface of two immiscible liquids. Journal of Chemical Physics, 2000, 113, 1618-1629.	3.0	78
411	Brownian Fluctuation Spectroscopy Using Atomic Force Microscopes. Langmuir, 2000, 16, 2254-2261.	3.5	38
412	Forces and Hydrodynamic Interactions between Polystyrene Surfaces with Adsorbed PEOâ^'PPOâ^'PEO. Langmuir, 2000, 16, 9274-9281.	3.5	83
413	Surface Force Measurements at a Copper Electrode/Electrolyte Interface. Journal of Physical Chemistry B, 2000, 104, 2060-2066.	2.6	22
414	Brownian dynamics simulation of the motion of a rigid sphere in a viscous fluid very near a wall. Journal of Chemical Physics, 2000, 113, 9268-9278.	3.0	34
415	Theoretical Investigation of Bacterial Chemotaxis in Porous Media. Langmuir, 2001, 17, 5636-5645.	3.5	30
416	Drift without flux: Brownian walker with a space-dependent diffusion coefficient. Europhysics Letters, 2001, 54, 28-34.	2.0	106
417	Dynamic motion of a conductive particle in viscous fluid under DC electric field. IEEE Transactions on Industry Applications, 2001, 37, 785-791.	4.9	17
418	Diffusion of Microspheres in Shear Flow Near a Wall: Use to Measure Binding Rates between Attached Molecules. Biophysical Journal, 2001, 81, 25-42.	0.5	66
419	Multiparticle Adhesive Dynamics. Interactions between Stably Rolling Cells. Biophysical Journal, 2001, 81, 799-813.	0.5	118
420	Dynamic Contact Forces on Leukocyte Microvilli and Their Penetration of the Endothelial Glycocalyx. Biophysical Journal, 2001, 80, 1124-1140.	0.5	97
421	Particle Diameter Influences Adhesion under Flow. Biophysical Journal, 2001, 80, 1733-1743.	0.5	170

#	Article	lF	Citations
422	Motion of Submicrometer Particles Dominated by Brownian Motion near Cell and Microfabricated Surfaces. Nano Letters, 2001, 1, 617-623.	9.1	20
423	Fast Adsorption on Nonideal Surfacesâ€. Journal of Physical Chemistry B, 2001, 105, 11729-11736.	2.6	8
424	Direct Measurement of Static and Dynamic Forces between a Colloidal Particle and a Flat Surface Using a Single-Beam Gradient Optical Trap and Evanescent Wave Light Scattering. Langmuir, 2001, 17, 2182-2191.	3.5	36
425	Fluid Force Acting on a Particle Falling toward a Wall. JSME International Journal Series B, 2001, 44, 520-525.	0.3	7
426	Axisymmetric flow due to a porous sphere sedimenting towards a solid sphere or a solid wall: Application to scavenging of small particles. Physics of Fluids, 2001, 13, 3126-3133.	4.0	9
427	Interfacial criterion of spontaneous and forced engulfment of reinforcing particles by an advancing solid/liquid interface. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2001, 32, 993-1005.	2.2	56
428	Anomalous velocity fluctuations in particulate turbulent channel flow. International Journal of Multiphase Flow, 2001, 27, 701-719.	3.4	20
429	Stability in Colloidal Mixtures Containing Particles with a Large Disparity in Size. Journal of Colloid and Interface Science, 2001, 233, 1-11.	9.4	27
430	Kinetics of Particle Deposition in the Radial Impinging-Jet Cell. Journal of Colloid and Interface Science, 2001, 242, 14-24.	9.4	54
431	Slow motion of a droplet between two parallel plane walls. Chemical Engineering Science, 2001, 56, 6863-6871.	3.8	44
432	In Situ Calibration of Colloid Probe Cantilevers in Force Microscopy:  Hydrodynamic Drag on a Sphere Approaching a Wall. Langmuir, 2001, 17, 6018-6022.	3.5	86
433	Lattice-Boltzmann Simulations of Particle-Fluid Suspensions. Journal of Statistical Physics, 2001, 104, 1191-1251.	1.2	977
434	Restriction of Secretory Granule Motion near the Plasma Membrane of Chromaffin Cells. Journal of Cell Biology, 2001, 153, 177-190.	5.2	160
435	Particle–wall collisions in a viscous fluid. Journal of Fluid Mechanics, 2001, 433, 329-346.	3.4	303
436	Thermal force induced by the presence of a particle near a solidifying interface. Physical Review E, 2001, 64, 051502.	2.1	12
437	Motion of grains, droplets, and bubbles in fluid-filled nanopores. Physical Review E, 2001, 64, 021601.	2.1	5
438	Shear-Dependent Boundary Slip in an Aqueous Newtonian Liquid. Physical Review Letters, 2001, 87, 054504.	7.8	441
439	Multiple current reversals in forced inhomogeneous ratchets. Physical Review E, 2001, 63, 056307.	2.1	46

#	Article	IF	CITATIONS
440	Rotation due to hydrodynamic interactions between two spheres in contact. Physical Review E, 2002, 66, 051504.	2.1	7
441	Axisymmetric shapes and forces resulting from the interaction of a particle with a solidifying interface. Physical Review E, 2002, 66, 041404.	2.1	5
442	Giant diffusion and coherent transport in tilted periodic inhomogeneous systems. Physical Review E, 2002, 66, 041106.	2.1	40
443	Particle imaging velocimetry experiments and lattice-Boltzmann simulations on a single sphere settling under gravity. Physics of Fluids, 2002, 14, 4012-4025.	4.0	323
444	Reversal of Flagellar Rotation Is Important in Initial Attachment of Escherichia coli to Glass in a Dynamic System with High- and Low-Ionic-Strength Buffers. Applied and Environmental Microbiology, 2002, 68, 1280-1289.	3.1	75
445	Estimation of cell capture and arrest efficiency in flow chambers. , 0, , .		0
446	Vertical Oscillatory Motion of a Single Colloidal Particle Adjacent to an Electrode in an ac Electric Field. Langmuir, 2002, 18, 7810-7820.	3.5	48
447	Correction of Microrheological Measurements of Soft Samples with Atomic Force Microscopy for the Hydrodynamic Drag on the Cantilever. Langmuir, 2002, 18, 716-721.	3.5	161
448	Effects of Particle Size, Flow Velocity, and Cell Surface Microtopography on the Motion of Submicrometer Particles over Diatoms. Nano Letters, 2002, 2, 657-663.	9.1	17
449	Hydrodynamic Force Measurements: Boundary Slip of Water on Hydrophilic Surfaces and Electrokinetic Effects. Physical Review Letters, 2002, 88, 076103.	7.8	277
450	Estimating the Efficiency of Cell Capture and Arrest in Flow Chambers: Study of Neutrophil Binding via E-selectin and ICAM-1. Biophysical Journal, 2002, 83, 1934-1952.	0.5	50
451	4 Multiphase flow processes. Process Systems Engineering, 2002, 5, 85-122.	0.1	1
452	Shear and gravity effects on particle motion in turbulent boundary layers. Powder Technology, 2002, 125, 140-148.	4.2	7
453	Characterizing the adhesion of motile and nonmotileEscherichia coli to a glass surface using a parallel-plate flow chamber. Biotechnology and Bioengineering, 2002, 78, 179-189.	3.3	89
454	Deposition of Spherical Particles onto Cylindrical Solid Surfaces. Journal of Colloid and Interface Science, 2002, 248, 315-328.	9.4	10
455	Deposition of Particles in the Impinging-Jet Cell for the High Coverage Regime. Journal of Colloid and Interface Science, 2002, 248, 244-254.	9.4	21
456	Mechanisms responsible for sub-micron particle deposition in a laminar wall-jet. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 211, 133-144.	4.7	3
457	Modelling and asymptotic analysis of particle-interface interaction. Mathematical and Computer Modelling, 2002, 36, 147-156.	2.0	7

#	Article	IF	Citations
458	Brownian walker in a confined geometry leading to a space-dependent diffusion coefficient. Physica A: Statistical Mechanics and Its Applications, 2002, 304, 65-76.	2.6	56
459	Axisymmetric approach of a solid sphere toward a non-deformable planar slip interface in the normal stagnation flow––development of global rational approximations for resistance coefficients. International Journal of Multiphase Flow, 2002, 28, 1369-1380.	3.4	25
460	Wetting film stability and flotation kinetics. Advances in Colloid and Interface Science, 2002, 95, 145-236.	14.7	110
461	Evidence of shear-dependent boundary slip in newtonian liquids. European Physical Journal E, 2003, 12, 71-74.	1.6	89
462	Stokes flow for the axisymmetric motion of several spherical particles perpendicular to a plane wall. Zeitschrift Fur Angewandte Mathematik Und Physik, 2003, 54, 304-327.	1.4	8
463	Numerical Simulation of the Buoyancy-Driven Bouncing of a 2-D Bubble at a Horizontal Wall. Theoretical and Computational Fluid Dynamics, 2003, 17, 51-72.	2.2	17
464	Direct measurement of interaction forces between a single bacterium and a flat plate. Journal of Colloid and Interface Science, 2003, 261, 379-385.	9.4	33
465	Incorporation of lubrication effects into the force-coupling method for particulate two-phase flow. Journal of Computational Physics, 2003, 189, 212-238.	3.8	94
466	Interactions of two rigid spheres translating collinearly in creeping flow in a Bingham material. Journal of Non-Newtonian Fluid Mechanics, 2003, 113, 49-67.	2.4	46
467	Measurement of long-range forces on a single yeast cell using a gradient optical trap and evanescent wave light scattering. Colloids and Surfaces B: Biointerfaces, 2003, 27, 355-364.	5.0	16
468	Numerical Investigation of Particulate Flow over a Backward-Facing Step. Proceedings in Applied Mathematics and Mechanics, 2003, 2, 380-381.	0.2	0
469	A review of drainage and spontaneous rupture in free standing thin films with tangentially immobile interfaces. Advances in Colloid and Interface Science, 2003, 105, 3-62.	14.7	58
470	Fluid displacement by Stokes flow past a spherical droplet. Journal of Fluid Mechanics, 2003, 485, 67-85.	3.4	27
471	Hydrodynamic Force and Heat/Mass Transfer From Particles, Bubbles, and Drops—The Freeman Scholar Lecture. Journal of Fluids Engineering, Transactions of the ASME, 2003, 125, 209-238.	1.5	175
472	Surface Roughness and Hydrodynamic Boundary Slip of a Newtonian Fluid in a Completely Wetting System. Physical Review Letters, 2003, 90, 144501.	7.8	274
473	Calculation of ac Electric Field Effects on the Average Height of a Charged Colloid:Â Effects of Electrophoretic and Brownian Motions. Langmuir, 2003, 19, 6627-6632.	3.5	17
474	Average hydrodynamic correction for the Brownian dynamics calculation of flocculation rates in concentrated dispersions. Physical Review E, 2003, 68, 061408.	2.1	27
475	The State Diagram for Cell Adhesion Mediated by Two Receptors. Biophysical Journal, 2003, 84, 2671-2690.	0.5	110

#	Article	IF	CITATIONS
476	Leukocyte-inspired biodegradable particles that selectively and avidly adhere to inflamed endothelium in vitro and in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 15895-15900.	7.1	161
477	Integral Equation Method for Creeping Flow around a Solid Body Near a Porous Slab. Quarterly Journal of Mechanics and Applied Mathematics, 2003, 56, 163-185.	1.3	11
478	Calibration of colloid probe cantilevers using the dynamic viscous response of a confined liquid. Review of Scientific Instruments, 2003, 74, 4026-4032.	1.3	24
479	Pattern formation in a rotating aqueous suspension. Europhysics Letters, 2003, 62, 491-497.	2.0	26
480	Hydrodynamics of particle–wall interaction in colloidal probe experiments: comparison of vertical and lateral motion. Journal of Physics Condensed Matter, 2003, 15, 3003-3012.	1.8	13
481	Near-Surface Velocimetry Using Evanescent Wave Illumination. , 2003, , 645.		3
482	Absolute interfacial distance measurements by dual-wavelength reflection interference contrast microscopy. Physical Review E, 2004, 69, 021901.	2.1	70
483	Migration velocities of spherical solid particles near a vertical wall for Reynolds number from 0.1 to 5. Physics of Fluids, 2004, 16, 204-207.	4.0	11
484	Optical trapping. Review of Scientific Instruments, 2004, 75, 2787-2809.	1.3	2,206
485	Kinetics of particle deposition in the oblique impinging jet cell. Journal of Colloid and Interface Science, 2004, 269, 53-61.	9.4	18
486	Kinetic analysis of the attachment of a biological particle to a surface by macromolecular binding. Journal of Theoretical Biology, 2004, 226, 237-250.	1.7	11
487	Near-wall hindered Brownian diffusion of nanoparticles examined by three-dimensional ratiometric total internal reflection fluorescence microscopy (3-D R-TIRFM). Experiments in Fluids, 2004, 37, 811-824.	2.4	129
488	Near-surface velocimetry using evanescent wave illumination. Experiments in Fluids, 2004, 37, 825-833.	2.4	112
489	Forces acting on particles in separated wall-bounded shear flow. Proceedings in Applied Mathematics and Mechanics, 2004, 4, 512-514.	0.2	7
492	In situ studies of particle deposition on non-transparent substrates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 235, 65-72.	4.7	24
493	Moving of a nonhomogeneous, porous floc normal to a rigid plate. Journal of Colloid and Interface Science, 2004, 275, 309-316.	9.4	10
494	Estimation of adsorption rate coefficients based on the Smoluchowski equation. Chemical Engineering Science, 2004, 59, 1905-1921.	3.8	16
495	Numerical simulation of growing Cu particles in a Kenics static mixer reactor in which Cu2+ is reduced by carbohydrates. Chemical Engineering Science, 2004, 59, 5193-5200.	3.8	7

#	Article	IF	CITATIONS
496	AFM Study of the Behavior of Polystyrene and Glass Particles during the Electrodeposition of Copper. Langmuir, 2004, 20, 11030-11038.	3.5	14
497	Drag force on a sphere moving towards a corrugated wall. Journal of Fluid Mechanics, 2004, 513, 247-264.	3.4	55
498	Oblique particlewall collisions in a liquid. Journal of Fluid Mechanics, 2004, 510, 71-93.	3.4	119
499	Microinterferometric Study of the Structure, Interfacial Potential, and Viscoelastic Properties of Polyelectrolyte Multilayer Films on a Planar Substrate. Journal of Physical Chemistry B, 2004, 108, 7196-7205.	2.6	38
500	Effect of confinement on dynamics and rheology of dilute DNA solutions. I. Entropic spring force under confinement and a numerical algorithm. Journal of Rheology, 2004, 48, 281-298.	2.6	41
501	Migration Velocity of a Spherical Particle near a Wall in Low Reynolds Number Regime 880-02 Nihon Kikai Gakkai Ronbunshū Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2004, 70, 54-59.	0.2	0
502	Convective flow increases lipoplex delivery rate to in vitro cellular monolayers. Gene Therapy, 2005, 12, 512-520.	4.5	28
504	Novel optical and statistical methods reveal colloid–wall interactions inconsistent with DLVO and Lifshitz theories. Journal of Colloid and Interface Science, 2005, 287, 561-571.	9.4	31
505	Analysis of particle–wall interactions during particle free fall. Journal of Colloid and Interface Science, 2005, 288, 104-113.	9.4	13
506	Evaluation of lubrication force on colliding particles for DEM simulation of fluidized beds. Powder Technology, 2005, 158, 92-101.	4.2	40
507	Noise-induced currents and reliability of transport in frictional ratchets. Physica A: Statistical Mechanics and Its Applications, 2005, 354, 171-181.	2.6	13
508	Force measurements with the atomic force microscope: Technique, interpretation and applications. Surface Science Reports, 2005, 59, 1-152.	7.2	3,040
509	Applications of polydisperse sedimentation models. Chemical Engineering Journal, 2005, 111, 105-117.	12.7	26
510	A new approach for analyzing particle motion near an interface using total internal reflection microscopy. Journal of Colloid and Interface Science, 2005, 284, 323-331.	9.4	32
513	Simulation of Particle Incorporation during Electrodeposition Process. Journal of the Electrochemical Society, 2005, 152, C706.	2.9	21
514	Hydrodynamic resistance of close-approached slip surfaces with a nanoasperity or an entrapped nanobubble. Physical Review E, 2005, 72, 066306.	2.1	17
515	Relaxation dynamics of a single DNA molecule. Physical Review E, 2005, 71, 061920.	2.1	16
516	Fast subnanometer particle localization by traveling-wave tracking. Journal of Applied Physics, 2005, 98, 064302.	2.5	12

#	Article	IF	CITATIONS
517	Probing interactions between colloidal particles with oscillating optical tweezers. Journal of Applied Physics, 2005, 97, 103114.	2.5	16
518	Electrodynamics of Dipolar Beads in an Electrophoretic Spherical Cavity., 0,,.		0
519	Experimental verification of near-wall hindered diffusion for the Brownian motion of nanoparticles using evanescent wave microscopy. Physical Review E, 2005, 72, 042101.	2.1	84
520	Interpretation of conservative forces from Stokesian dynamic simulations of interfacial and confined colloids. Journal of Chemical Physics, 2005, 122, 034903.	3.0	37
521	Chapter 8 Hydrophobic flocculation and hydrophobic aggregation separation (HAS). Studies in Interface Science, 2005, 20, 415-496.	0.0	2
522	Analytical solutions for a spherical particle near a wall in axisymmetrical polynomial creeping flows. Physics of Fluids, 2005, 17, 073602.	4.0	18
523	Electrophoresis of a Charge-Regulated Sphere Normal to a Large Disk. Langmuir, 2005, 21, 7588-7597.	3.5	19
524	Direct Evaluation of DLVO Theory for Predicting Long-Range Forces between a Yeast Cell and a Surface. Langmuir, 2005, 21, 8198-8203.	3.5	17
525	Why did not the Ontong Java Plateau form subaerially?. Earth and Planetary Science Letters, 2005, 234, 385-399.	4.4	85
526	Microdrops on Atomic Force Microscope Cantilevers:Â Evaporation of Water and Spring Constant Calibration. Journal of Physical Chemistry B, 2005, 109, 253-263.	2.6	70
527	Mechanics of Transient Platelet Adhesion to von Willebrand Factor under Flow. Biophysical Journal, 2005, 88, 1432-1443.	0.5	70
528	Three-dimensional simulations of a platelet-shaped spheroid near a wall in shear flow. Physics of Fluids, 2005, 17, 113302.	4.0	54
529	Colloid Filtration Theory and the Happel Sphere-in-Cell Model Revisited with Direct Numerical Simulation of Colloids. Langmuir, 2005, 21, 2173-2184.	3.5	88
530	Boundary slip in Newtonian liquids: a review of experimental studies. Reports on Progress in Physics, 2005, 68, 2859-2897.	20.1	946
531	Debris-bed friction of hard-bedded glaciers. Journal of Geophysical Research, 2005, 110, .	3.3	59
532	Hydrodynamic effects in driven soft matter. Soft Matter, 2006, 2, 653.	2.7	45
533	Lubrication Theory of Drag on a Scanning Probe in Structured Water, near a Hydrophilic Surface. Langmuir, 2006, 22, 2136-2140.	3.5	14
534	Detection of Forces and Displacements along the Axial Direction in an Optical Trap. Biophysical Journal, 2006, 90, 657-667.	0.5	48

#	Article	IF	CITATIONS
535	Analysis of Transient Behavior in Complex Trajectories: Application to Secretory Vesicle Dynamics. Biophysical Journal, 2006, 91, 3542-3559.	0.5	141
536	The treatment of lubrication forces in boundary integral equations. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2006, 462, 855-881.	2.1	6
537	Investigation of Short-Time Particle Dynamics near an Interface in the Presence of Nonadsorbed Macro-ions. Langmuir, 2006, 22, 8318-8325.	3.5	5
538	Size Dependence of Protein Diffusion Very Close to Membrane Surfaces:Â Measurement by Total Internal Reflection with Fluorescence Correlation Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 10910-10918.	2.6	36
540	Dissipative Interactions. Interface Science and Technology, 2006, 9, 197-373.	3.3	0
542	Hydrodynamic resistance effect of fluid layer between two immersed approaching particles. Particuology: Science and Technology of Particles, 2006, 4, 220-228.	0.4	1
543	Dynamics of a dipolar bead in a finite conductivity cavity. Journal of Electrostatics, 2006, 64, 673-684.	1.9	0
544	Boundary effects on osmophoresis: Motion of a spherical vesicle perpendicular to two plane walls. Chemical Engineering Science, 2006, 61, 434-448.	3.8	5
545	A model of fine particles deposition on smooth surfaces: lâ€"Theoretical basis and model development. Chemical Engineering Science, 2006, 61, 7626-7635.	3.8	15
546	On the influence of near-wall forces in particle-laden channel flows. International Journal of Multiphase Flow, 2006, 32, 1326-1339.	3.4	63
547	Quasi-static and hydrodynamic interaction between solid surfaces in polyisoprene studied by atomic force microscopy. Polymer, 2006, 47, 7259-7270.	3.8	16
548	Direct measurement of forces between a colloidal particle and a phospholipid bilayer. Journal of Colloid and Interface Science, 2006, 299, 182-190.	9.4	2
549	Slow motion of a slip spherical particle perpendicular to two plane walls. Journal of Fluids and Structures, 2006, 22, 647-661.	3.4	34
550	A computational study of the stability ratios of spherical coloidal particles. Computational and Theoretical Chemistry, 2006, 769, 165-170.	1.5	8
551	Near-Wall Deposition Probability of Blood Elements as A New Hemodynamic Wall Parameter. Annals of Biomedical Engineering, 2006, 34, 958-970.	2.5	14
552	Measurements of the minimum elevation of nano-particles by 3D nanoscale tracking using ratiometric evanescent wave imaging. Experiments in Fluids, 2006, 41, 173-183.	2.4	4
553	Demonstration of a minimum in the recovery of nanoparticles by flotation: Theory and experiment. Chemical Engineering Science, 2006, 61, 2494-2509.	3.8	73
554	Particle deposition onto micropatterned charge heterogeneous substrates: Trajectory analysis. Journal of Colloid and Interface Science, 2006, 293, 1-15.	9.4	24

#	ARTICLE	IF	CITATIONS
555	DNA/cationic polymer complex attachment on a human vascular endothelial cell monolayer exposed to a steady laminar flow. Journal of Controlled Release, 2006, 114, 389-397.	9.9	18
556	Scanning Microdeformation Microscopy: Subsurface Imaging and Measurement of Elastic Constants at Mesoscopic Scale. Nanoscience and Technology, 2006, , 241-281.	1.5	7
557	Numerical Simulation of the Particle Motion Characteristics in Boundary Layer of Gas-Solid Rotary Flow. Journal of Fluids Engineering, Transactions of the ASME, 2006, 128, 596.	1.5	2
558	Short time investigation of the neurospora kinesin step. Journal of Physics Condensed Matter, 2006, 18, S1957-S1966.	1.8	4
559	Self-diffusion in submonolayer colloidal fluids near a wall. Journal of Chemical Physics, 2006, 125, 034906.	3.0	29
560	PARTICLE RESUSPENSION FROM SURFACES: REVISITED AND RE-EVALUATED. Reviews in Chemical Engineering, 2006, 22, 1-123.	4.4	78
561	A sphere in a second degree polynomial creeping flow parallel to a wall. Quarterly Journal of Mechanics and Applied Mathematics, 2006, 59, 587-614.	1.3	21
562	Quantitative approach to small-scale nonequilibrium systems. Physical Review E, 2006, 73, 051110.	2.1	6
563	Molecular simulations of lubrication and solvation forces. Physical Review E, 2006, 73, 016306.	2.1	14
564	Nonconstant piezo velocity in highly dynamic atomic force spectroscopy. Review of Scientific Instruments, 2006, 77, 116107.	1.3	3
565	Thermodynamics of a Colloidal Particle in a Time-Dependent Nonharmonic Potential. Physical Review Letters, 2006, 96, 070603.	7.8	276
566	Simultaneous investigation of sedimentation and diffusion of a single colloidal particle near an interface. Journal of Chemical Physics, 2006, 124, 164713.	3.0	15
567	Electro-osmosis at inhomogeneous charged surfaces: Hydrodynamic versus electric friction. Journal of Chemical Physics, 2006, 124, 114709.	3.0	53
568	Anisotropy of Brownian motion caused only by hydrodynamic interaction with a wall. Physical Review E, 2006, 74, 021402.	2.1	70
569	Reversal of bacterial locomotion at an obstacle. Physical Review E, 2006, 73, 030901.	2.1	98
570	Resonance fluctuations of a whispering gallery mode biosensor by particles undergoing Brownian motion. Applied Physics Letters, $2007, 91$ , .	3.3	35
571	Direct measurement of anisotropic near-wall hindered diffusion using total internal reflection velocimetry. Physical Review E, 2007, 76, 046307.	2.1	77
572	Precision measurement of the Casimir-Lifshitz force in a fluid. Physical Review A, 2007, 75, .	2.5	101

#	Article	IF	CITATIONS
573	Mechanosensation and mechanical load modulate the locomotory gait of swimming C. elegans. Journal of Experimental Biology, 2007, 210, 2383-2389.	1.7	98
575	Collective diffusion coefficient of proteins with hydrodynamic, electrostatic, and adhesive interactions. Journal of Chemical Physics, 2007, 127, 115102.	3.0	17
576	Colloidal dynamics near a wall studied by evanescent wave light scattering: Experimental and theoretical improvements and methodological limitations. Journal of Chemical Physics, 2007, 126, 044707.	3.0	62
577	PEG molecular weight and lateral diffusion of PEG-ylated lipids in magnetically aligned bicelles. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 1805-1814.	2.6	24
578	Novel Defect Structures in Nematic Liquid Crystal Shells. Physical Review Letters, 2007, 99, 157801.	7.8	207
579	State-dependent diffusion: Thermodynamic consistency and its path integral formulation. Physical Review E, 2007, 76, 011123.	2.1	251
581	Dynamics and stability of dispersions of polyelectrolyte-filled multilayer microcapsules. Journal of Chemical Physics, 2007, 126, 244901.	3.0	13
582	Surface Forces and Drag Coefficients of Microspheres near a Plane Surface Measured with Optical Tweezers. Langmuir, 2007, 23, 3654-3665.	3.5	220
583	Colloid Retention in Porous Media:Â Mechanistic Confirmation of Wedging and Retention in Zones of Flow Stagnation. Environmental Science & Environment	10.0	164
584	Steady-State Multiplicity in Receptor-Mediated Colloidal Adhesion. Journal of Physical Chemistry C, 2007, 111, 2008-2016.	3.1	1
585	Wall effects in microchannel-based macromolecular separation under electromagnetohydrodynamic influences. Journal of Applied Physics, 2007, 102, .	2.5	21
586	Predicting Polymer Flow during High-Temperature Atomic Force Microscope Nanoindentation. Macromolecules, 2007, 40, 8096-8103.	4.8	11
587	Unexpected Slow Near Wall Dynamics of Spherical Colloids in a Suspension of Rods. Langmuir, 2007, 23, 12010-12015.	3.5	8
588	Direct Measurement of Depletion and Hydrodynamic Forces in Solutions of a Reversible Supramolecular Polymer. Langmuir, 2007, 23, 6095-6105.	3.5	25
589	Diffusing Colloidal Probes of Protein and Synthetic Macromolecule Interactions. Biophysical Journal, 2007, 92, 1005-1013.	0.5	33
590	Motion of a sphere normal to a wall in a second-order fluid. Journal of Fluid Mechanics, 2007, 587, 163-172.	3.4	18
591	Creeping motion of a sphere along the axis of a closed axisymmetric container. Journal of Fluid Mechanics, 2007, 585, 127-152.	3.4	9
592	Diffusion-induced bias in near-wall velocimetry. Journal of Fluid Mechanics, 2007, 577, 443-456.	3.4	46

#	Article	IF	CITATIONS
593	Electrohydrodynamic flow around a colloidal particle near an electrode with an oscillating potential. Journal of Fluid Mechanics, 2007, 575, 83-109.	3.4	132
594	Thin Film Lubrication for Large Colloidal Particles:  Experimental Test of the No-Slip Boundary Condition. Journal of Physical Chemistry C, 2007, 111, 16300-16312.	3.1	42
595	A gluey particle model. ESAIM: Proceedings and Surveys, 2007, 18, 133-142.	0.4	8
596	Flocculation and redispersion of cellulosic fiber suspensions: A review of effects of hydrodynamic shear and polyelectrolytes. BioResources, 2007, 2, 296-331.	1.0	63
597	Simultaneous measurement of structural and hydrodynamic forces between colloidal surfaces in complex fluids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 300, 268-280.	4.7	34
598	Deposition of colloid particles on polyelectrolyte multilayers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 302, 467-472.	4.7	15
599	Assessment of the 1-fluid method for DNS of particulate flows: Sedimentation of a single sphere at moderate to high Reynolds numbers. Computers and Fluids, 2007, 36, 359-375.	2.5	15
600	Brownian motion with inert drift, but without flux: A model. Physica A: Statistical Mechanics and Its Applications, 2007, 384, 278-284.	2.6	4
601	On the response of a resonating plate in a liquid near a solid wall. Sensors and Actuators A: Physical, 2007, 134, 414-426.	4.1	42
602	Examination of near-wall hindered Brownian diffusion of nanoparticles: Experimental comparison to theories by Brenner (1961) and Goldman et al. (1967). Physics of Fluids, 2007, 19, 103305.	4.0	44
603	Diffusiophoresis of a colloidal sphere in nonelectrolyte gradients perpendicular to two plane walls. Chemical Engineering Science, 2008, 63, 1612-1625.	3.8	17
604	The method of images for regularized Stokeslets. Journal of Computational Physics, 2008, 227, 4600-4616.	3.8	120
605	Slip at the surface of a sphere translating perpendicular to a plane wall in micropolar fluid. Zeitschrift Fur Angewandte Mathematik Und Physik, 2008, 59, 293-312.	1.4	36
606	Electrokinetic separation of charged macromolecules in nanochannels within the continuum regime: Effects of wall interactions and hydrodynamic confinements. Electrophoresis, 2008, 29, 1115-1124.	2.4	16
607	Sieve mechanism estimations for microfiltration membranes with elliptical pores. Journal of Membrane Science, 2008, 322, 91-97.	8.2	10
608	Simulation of particles in fluid: a two-dimensional benchmark for a cylinder settling in a wall-bounded box. European Journal of Mechanics, B/Fluids, 2008, 27, 309-321.	2.5	17
609	Magnetically driven hydrodynamic interactions of magnetic and non-magnetic particles. Chemical Engineering Science, 2008, 63, 3431-3437.	3.8	4
610	Dropwise deposition and wetting of nanoparticle suspensions. International Journal of Heat and Fluid Flow, 2008, 29, 250-262.	2.4	4

#	Article	IF	CITATIONS
611	Numerical simulation of nano-carbon deposition in the thermal decomposition of methane. International Journal of Hydrogen Energy, 2008, 33, 7027-7038.	7.1	14
612	Modeling inclusion approach to the steel/slag interface. Materials Science & Description A: Structural Materials: Properties, Microstructure and Processing, 2008, 495, 310-315.	5.6	28
613	Interaction potential and near wall dynamics of spherical colloids in suspensions of rod-like fd-virus. European Physical Journal E, 2008, 26, 177-82.	1.6	10
614	Exact solution for creeping cylindrical flow in a free-dowel bearing. Doklady Physics, 2008, 53, 19-22.	0.7	4
615	Adhesion and ultrasound-induced delivery from monodisperse microbubbles in a parallel plate flow cell. Journal of Controlled Release, 2008, 131, 19-26.	9.9	24
616	Total Internal Reflection Fluorescence Correlation Spectroscopy: Effects of Lateral Diffusion and Surface-Generated Fluorescence. Biophysical Journal, 2008, 95, 390-399.	0.5	44
617	Vesicle Diffusion Close to a Membrane: Intermembrane Interactions Measured with Fluorescence Correlation Spectroscopy. Biophysical Journal, 2008, 95, 5789-5797.	0.5	26
618	Numerical investigation of particle–particle and particle–wall collisions in a viscous fluid. Journal of Fluid Mechanics, 2008, 596, 437-466.	3.4	91
619	Transport, Deposition and Removal of Fine Particles - Biomedical Applications., 2008,, 92-173.		1
621	Flow-induced forces arising during the impact of two circular cylinders. Journal of Fluid Mechanics, 2008, 616, 205-234.	3.4	13
622	Influence of wettability and surface charge on the interaction between an aqueous electrolyte solution and a solid surface. Physical Chemistry Chemical Physics, 2008, 10, 4871.	2.8	20
623	Catch Strip Assay for the Relative Assessment of Two-Dimensional Protein Association Kinetics. Analytical Chemistry, 2008, 80, 944-950.	6.5	8
624	Electrostatically Confined Nanoparticle Interactions and Dynamics. Langmuir, 2008, 24, 714-721.	3.5	55
625	Efficient Tools for the Calculation of Drag Forces on Planar Microelectromechanical Systems. Journal of Microelectromechanical Systems, 2008, 17, 558-572.	2.5	1
626	Squeeze Film Lubrication in Silicone Oil: Experimental Test of the No-Slip Boundary Condition at Solidâ^'Liquid Interfaces. Journal of Physical Chemistry C, 2008, 112, 17324-17330.	3.1	35
627	Nanorheology and boundary slip in confined liquids using atomic force microscopy. Journal of Physics Condensed Matter, 2008, 20, 315201.	1.8	46
628	Bioluminescent response of individual dinoflagellate cells to hydrodynamic stress measured with millisecond resolution in a microfluidic device. Journal of Experimental Biology, 2008, 211, 2865-2875.	1.7	46
629	Molecular simulation of cooperative hydrodynamic effects in motion of a periodic array of spheres between parallel walls. Journal of Chemical Physics, 2008, 129, 164706.	3.0	13

#	ARTICLE	IF	CITATIONS
630	A method for determining Stokes flow around particles near a wall or in a thin film bounded by a wall and a gas-liquid interface. Physics of Fluids, 2008, 20, .	4.0	21
631	The analysis of self-diffusion and migration of rough spheres in nonlinear shear flow using a traction-corrected boundary element method. Journal of Fluid Mechanics, 2008, 598, 267-292.	3.4	21
632	Near-contact interactions between a sphere and a plane. Physical Review E, 2008, 77, 026307.	2.1	7
633	Measurements of the Casimir-Lifshitz force in fluids: The effect of electrostatic forces and Debye screening. Physical Review A, 2008, 78, .	2.5	76
634	High-Frequency Oscillations of a Sphere in a Viscous Fluid near a Rigid Plane. SIAM Review, 2008, 50, 313-322.	9.5	8
635	Influence of confinement on granular penetration by impact. Physical Review E, 2008, 78, 010301.	2.1	107
636	Elements of Microhydrodynamics. , 0, , 59-108.		0
638	Hydrodynamic Mobility of an Optically Trapped Colloidal Particle near Fluid-Fluid Interfaces. Physical Review Letters, 2009, 103, 248303.	7.8	42
639	Molecular simulation of protein dynamics in nanopores. II. Diffusion. Journal of Chemical Physics, 2009, 130, 085105.	3.0	22
640	Determination of the axial stiffness of an optical trap with information entropy signals. , 2009, , .		0
641	Particle deposition onto a microsieve. Physics of Fluids, 2009, 21, .	4.0	23
642	Slow Rotation of Concentric Spheres with Source at Their Centre in a Viscous Fluid. Journal of Applied Mathematics, 2009, 2009, 1-13.	0.9	3
643	Grain transport mechanics in shallow overland flow. Ecohydrology, 2009, 2, 248-256.	2.4	4
644	An Integrated Reaction-Transport Model for DNA Surface Hybridization: Implications for DNA Microarrays. Annals of Biomedical Engineering, 2009, 37, 255-269.	2.5	7
645	Accurate treatment of lubrication forces between rigid spheres in viscous fluids using a traction-corrected boundary element method. Engineering Analysis With Boundary Elements, 2009, 33, 467-473.	3.7	6
646	Modeling cell interactions under flow. Journal of Mathematical Biology, 2009, 58, 235-259.	1.9	27
647	CFD-based modelling of bubble-particle collision efficiency with mobile bubble surface in a turbulent environment. International Journal of Mineral Processing, 2009, 90, 45-55.	2.6	55
648	Electrophoresis of a soft particle normal to a plane. Journal of Colloid and Interface Science, 2009, 335, 130-139.	9.4	24

#	Article	IF	CITATIONS
649	CFD-based multiscale modelling of bubble–particle collision efficiency in a turbulent flotation cell. Chemical Engineering Science, 2009, 64, 5287-5301.	3.8	63
650	A particle motion model for the study of consolidation phenomena. Computers and Chemical Engineering, 2009, 33, 1227-1239.	3.8	3
651	Upscaling microbial chemotaxis in porous media. Advances in Water Resources, 2009, 32, 1413-1428.	3.8	40
652	Eventâ€Tracking Model of Adhesion Identifies Loadâ€Bearing Bonds in Rolling Leukocytes. Microcirculation, 2009, 16, 115-130.	1.8	20
653	Influence of Streaming Potential on the Transport and Separation of Charged Spherical Solutes in Nanochannels Subjected to Particlea "Wall Interactions. Langmuir, 2009, 25, 9863-9872.	3.5	27
654	Hemispheres-in-Cell Geometry to Predict Colloid Deposition in Porous Media. Environmental Science & En	10.0	74
655	Particle Tracking Single Protein-Functionalized Quantum Dot Diffusion and Binding at Silica Surfaces. Langmuir, 2009, 25, 3509-3518.	3.5	9
656	Novel perspectives for the application of total internal reflection microscopy. Optics Express, 2009, 17, 23975.	3.4	38
657	Stretching Submicron Biomolecules with Constant-Force Axial Optical Tweezers. Biophysical Journal, 2009, 96, 4701-4708.	0.5	47
658	Boundary effects on electro-magneto-phoresis. Journal of Fluid Mechanics, 2009, 622, 195-207.	3.4	6
659	Dynamics of Concentrated Hard-Sphere Colloids Near a Wall. Physical Review Letters, 2009, 102, 068302.	7.8	73
660	Asymptotics of work distributions in nonequilibrium systems. Physical Review E, 2009, 80, 021120.	2.1	36
661	Forces between functionalized silica nanoparticles in solution. Physical Review E, 2009, 79, 050501.	2.1	53
662	Lateral migration of a small spherical buoyant particle in a wall-bounded linear shear flow. Physics of Fluids, 2009, 21, 083303.	4.0	18
663	Measurement of Particle and Surface Interactions Using Force Microscopy., 2009,, 31-80.		6
664	Deposition of Coatings from Live Yeast Cells and Large Particles by "Convective-Sedimentation― Assembly. Langmuir, 2009, 25, 5692-5702.	3.5	13
665	Measurement of no-slip and slip boundary conditions in confined Newtonian fluids using atomic force microscopy. Physical Chemistry Chemical Physics, 2009, 11, 9514.	2.8	32
666	Particle capture in binary solidification. Journal of Fluid Mechanics, 2009, 625, 299-320.	3.4	43

#	Article	IF	CITATIONS
667	The effects of hindered mobility and depletion of particles in near-wall shear flows and the implications for nanovelocimetry. Journal of Fluid Mechanics, 2009, 637, 241-265.	3.4	36
668	Chapter 8 Modeling Leukocyte Rolling. Current Topics in Membranes, 2009, , 221-273.	0.9	2
669	Flexible Acoustic Particle Manipulation Device with Integrated Optical Waveguide for Enhanced Microbead Assays. Analytical Sciences, 2009, 25, 285-291.	1.6	28
670	Near-wall nanoparticles perpendicular distribution measured using evanescent illumination. Proceedings of SPIE, 2009, , .	0.8	0
671	Contact in a viscous fluid. Part 1. A falling wedge. Journal of Fluid Mechanics, 2010, 646, 327-338.	3.4	15
672	Direct verification of the lubrication force on a sphere travelling through a viscous film upon approach to a solid wall. Journal of Fluid Mechanics, 2010, 655, 515-526.	3.4	19
673	The approach of a sphere to a wall at finite Reynolds number. Journal of Fluid Mechanics, 2010, 661, 229-238.	3.4	22
674	Soft random solids: particulate gels, compressed emulsions, and hybrid materials. , 2010, , 62-96.		1
675	On Squeeze Film Damping in Microsystems. Journal of Tribology, 2010, 132, .	1.9	8
676	Simulation of Particle Trajectories and Erosion Through a Centrifugal Compressor. , 2010, , .		0
677	Simulation of particle dynamics in a viscous fluid near a plane wall. Computational Mathematics and Mathematical Physics, 2010, 50, 1588-1604.	0.8	3
678	Reliability of fluctuation-induced transport in a Maxwell-demon-type engine. European Physical Journal B, 2010, 78, 193-199.	1.5	0
679	Colloid Retention in Porous Media of Various Porosities: Predictions by the Hemispheres-in-Cell Model. Langmuir, 2010, 26, 1680-1687.	3.5	36
680	Thermal non-equilibrium transport in colloids. Reports on Progress in Physics, 2010, 73, 126601.	20.1	321
681	Hydrodynamic drainage force in a highly confined geometry: role of surface roughness on different length scales. Microfluidics and Nanofluidics, 2010, 8, 653-663.	2.2	40
682	Electrophoresis of a spherical particle normal to an air–water interface. Electrophoresis, 2010, 31, 3363-3371.	2.4	8
683	Deposition of Brownian particles during evaporation of two-dimensional sessile droplets. Chemical Engineering Science, 2010, 65, 2978-2989.	3.8	25
684	A drag correlation for a nonporous sphere steadily approaching an impermeable plane at finite Reynolds numbers. Chemical Engineering Science, 2010, 65, 4913-4915.	3.8	3

#	Article	IF	CITATIONS
685	The method of fundamental solution for the creeping flow around a sphere close to a membrane. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2010, 90, 920-928.	1.6	7
686	Aqueous films limit bacterial cell motility and colony expansion on partially saturated rough surfaces. Environmental Microbiology, 2010, 12, 1363-1373.	3.8	79
688	A first-principle predictive theory for a sphere falling through sharply stratified fluid at low Reynolds number. Journal of Fluid Mechanics, 2010, 664, 436-465.	3.4	50
689	Wall-drag effect of dense Brownian particles close to solid-liquid interface in low-coherence dynamic light scattering. Proceedings of SPIE, 2010, , .	0.8	O
690	Lift on a sphere moving near a wall in a parabolic flow. Journal of Fluid Mechanics, 2010, 662, 447-474.	3.4	17
691	Modelling bacterial behaviour close to a no-slip plane boundary: the influence of bacterialÂgeometry. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2010, 466, 1725-1748.	2.1	122
692	Hydrodynamic attraction of immobile particles due to interfacial forces. Physical Review E, 2010, 81, 051405.	2.1	18
693	Improved in situ spring constant calibration for colloidal probe atomic force microscopy. Review of Scientific Instruments, 2010, 81, 113703.	1.3	10
694	Active Microrheology: A Proposed Technique to Measure Normal Stress Coefficients of Complex Fluids. Physical Review Letters, 2010, 105, 156001.	7.8	38
695	Random-Roughness Hydrodynamic Boundary Conditions. Physical Review Letters, 2010, 105, 016001.	7.8	55
696	Lubrication forces in air and accommodation coefficient measured by a thermal damping method using an atomic force microscope. Physical Review E, 2010, 81, 056305.	2.1	22
697	The intensity correlation function in evanescent wave scattering. Journal of Chemical Physics, 2010, 132, 074704.	3.0	14
698	Translational and rotational friction on a colloidal rod near a wall. Journal of Chemical Physics, 2010, 132, 054511.	3.0	41
699	Simulation of Erosive Effects of Sand Particle Impacts in Axial Turbomachinery. , 2010, , .		0
700	Experimental Observation of Inertia-Dominated Squeeze Film Damping in Liquid. Journal of Fluids Engineering, Transactions of the ASME, 2010, 132, .	1.5	6
701	A Combined Soft-Sphere Collision/Immersed Boundary Method for Resolved Simulations of Particulate Flows., 2010,,.		21
702	Fokker–Planck analysis of separation dependent potentials and diffusion coefficients in simulated microscopy experiments. Journal of Chemical Physics, 2010, 132, 044707.	3.0	17
703	Drift–diffusion kinetics of a confined colloid. Journal of Physics Condensed Matter, 2010, 22, 195104.	1.8	3

#	Article	IF	CITATIONS
704	Interaction of a Microsphere with a Solid-Supported Liquid Film. Langmuir, 2010, 26, 11797-11803.	3.5	42
705	Use of Naturally Occurring Halloysite Nanotubes for Enhanced Capture of Flowing Cells. Langmuir, 2010, 26, 12155-12164.	3.5	120
706	Influence of Noise on Force Measurements. Physical Review Letters, 2010, 104, 170602.	7.8	118
707	Unsteady Motion, Finite Reynolds Numbers, and Wall Effect on Vorticella convallaria Contribute Contraction Force Greater than the Stokes Drag. Biophysical Journal, 2010, 98, 2574-2581.	0.5	23
708	Effect of Molecularly-Thin Films on Lubrication Forces and Accommodation Coefficients in Air. Journal of Physical Chemistry C, 2010, 114, 20114-20119.	3.1	20
709	Anisotropic and Hindered Diffusion of Colloidal Particles in a Closed Cylinder. Langmuir, 2010, 26, 16722-16729.	3.5	56
710	Translational and rotational coupling in Brownian rods near a solid surface. Physical Review E, 2010, 82, 041126.	2.1	17
711	Interpreting the Dynamic Interaction between a Very Small Rising Bubble and a Hydrophilic Titania Surface. Journal of Physical Chemistry C, 2010, 114, 1942-1946.	3.1	39
712	Hydrodynamic measurement of Brownian particles at a liquid-solid interface by low-coherence dynamic light scattering. Optics Express, 2010, 18, 7390.	3.4	29
713	A formula for the wall-amplified added mass coefficient for a solid sphere in normal approach to a wall and its application for such motion at low Reynolds number. Physics of Fluids, 2010, 22, .	4.0	13
714	Hydrodynamic interaction of two colloids in nonadsorbing polymer solutions. Soft Matter, 2010, 6, 647-654.	2.7	11
715	Electrostatic and Dispersion Interactions during Protein Adsorption on Topographic Nanostructures. Langmuir, 2011, 27, 8767-8775.	3.5	26
716	Reliable Measurements of Interfacial Slip by Colloid Probe Atomic Force Microscopy. I. Mathematical Modeling. Langmuir, 2011, 27, 6701-6711.	3.5	21
717	Direct and Large-Eddy Simulation VIII. ERCOFTAC Series, 2011, , .	0.1	7
718	Hindered Diffusion of an Oil Drop Under Confinement and Surface Forces. Journal of Physical Chemistry Letters, 2011, 2, 2472-2477.	4.6	9
719	No-Slip Boundary Condition for Weak Solidâ^'Liquid Interactions. Journal of Physical Chemistry C, 2011, 115, 8613-8621.	3.1	20
720	Electrophoresis of a Charge-Regulated Sphere Normal to an Air–Water Interface. Journal of Physical Chemistry B, 2011, 115, 6484-6494.	2.6	5
721	Electrophoresis of a Charged Colloidal Particle in Porous Media: Boundary Effect of a Solid Plane. Langmuir, 2011, 27, 13481-13488.	3.5	28

#	Article	IF	CITATIONS
722	Enhanced Diffusion due to Active Swimmers at a Solid Surface. Physical Review Letters, 2011, 106, 048102.	7.8	178
723	Surface Heterogeneity on Hemispheres-in-Cell Model Yields All Experimentally-Observed Non-Straining Colloid Retention Mechanisms in Porous Media in the Presence of Energy Barriers. Langmuir, 2011, 27, 14982-14994.	3.5	67
724	Colloidal Dynamics Near a Particle-Covered Surface. Langmuir, 2011, 27, 12297-12303.	3.5	17
725	Controlling the Motion and Placement of Micrometer-Sized Metal Particles Using Patterned Polymer Brush Surfaces. Langmuir, 2011, 27, 11801-11805.	3.5	12
726	In Situ Hydrodynamic Lateral Force Calibration of AFM Colloidal Probes. Langmuir, 2011, 27, 13390-13399.	3.5	6
727	Experimental Study of the Effect of External Electric Fields on Interfacial Dynamics of Colloidal Particles. Langmuir, 2011, 27, 11481-11488.	3.5	39
728	Air-induced inverse Chladni patterns. Journal of Fluid Mechanics, 2011, 689, 203-220.	3.4	16
729	Imaging Carbon Nanotube Interactions, Diffusion, and Stability in Nanopores. ACS Nano, 2011, 5, 5909-5919.	14.6	19
730	Poreâ€Scale Investigation of Colloid Retention and Mobilization in the Presence of a Moving Air–Water Interface. Vadose Zone Journal, 2011, 10, 1250-1260.	2.2	36
731	Hydrodynamics on Charged Superparamagnetic Microparticles in Water Suspension: Effects of Low-Confinement Conditions and Electrostatics Interactions. , 0, , .		1
732	Lattice Boltzmann simulations of liquid film drainage between smooth surfaces. IMA Journal of Applied Mathematics, 2011, 76, 761-773.	1.6	2
733	The folded protein as a viscoelastic solid. Europhysics Letters, 2011, 96, 18003.	2.0	30
734	Drag force of a particle moving axisymmetrically in open or closed cavities. Journal of Chemical Physics, 2011, 135, 014904.	3.0	14
735	Stretching Short Sequences of DNA with Constant Force Axial Optical Tweezers. Journal of Visualized Experiments, 2011, , e3405.	0.3	1
736	Slow motion of a sphere towards a plane through confined non-Newtonian fluid. Journal of Non-Newtonian Fluid Mechanics, $2011$ , , .	2.4	1
737	Dynamic aspects of small bubble and hydrophilic solid encounters. Advances in Colloid and Interface Science, 2011, 168, 198-209.	14.7	21
738	Evaluation of influence of anisotropic diffusion near a wall in near-field fluorescence correlation spectroscopy of nanoparticles. Optical Review, 2011, 18, 237-240.	2.0	0
739	Physical Modeling of Inclusion Approach to the Steel–Slag Interface with Focus on Hydrodynamic Interactions. Advanced Engineering Materials, 2011, 13, 550-555.	3.5	2

#	Article	IF	CITATIONS
740	Motion of a sphero-cylindrical particle in a viscous fluid in confined geometry. European Journal of Mechanics, B/Fluids, 2011, 30, 405-408.	2.5	8
741	A dispersion model of enhanced mass diffusion in nanofluids. Chemical Engineering Science, 2011, 66, 2377-2384.	3.8	61
742	Migration of a solid particle in the vicinity of a plane fluid–fluid interface. European Journal of Mechanics, B/Fluids, 2011, 30, 76-88.	2.5	6
743	Collisions in a liquid fluidized bed. International Journal of Multiphase Flow, 2011, 37, 695-705.	3.4	36
744	Partition-induced vector chromatography in microfluidic devices. Journal of Colloid and Interface Science, 2011, 356, 341-351.	9.4	16
745	The imaging ammeter. Journal of Colloid and Interface Science, 2011, 357, 1-12.	9.4	15
746	Criticality and phase separation in a two-dimensional binary colloidal fluid induced by the solvent critical behavior. Europhysics Letters, 2011, 96, 28005.	2.0	34
747	Pulling and pushing a cargo with a catalytically active carrier. Europhysics Letters, 2011, 95, 28004.	2.0	76
748	Gas flow near a smooth plate. Physical Review E, 2011, 83, 056328.	2.1	10
749	Force measurement in the presence of Brownian noise: Equilibrium-distribution method versus drift method. Physical Review E, 2011, 83, 041113.	2.1	61
750	A microscopic model for noise induced transport: Heat-bath nonlinearly driven by external white noise. Chaos, 2011, 21, 013117.	2.5	4
751	Measurements of the near-wall hindered diffusion of colloidal particles in the presence of an electric field. Applied Physics Letters, $2011,99$ , .	3.3	38
752	Micro-rheology near fluid interfaces. Journal of Optics (United Kingdom), 2011, 13, 044009.	2.2	13
<b>7</b> 53	Resistance Functions for Two Spheres in Axisymmetric Flowâ€"Part I: Stream Function Theory. Journal of Applied Mathematics, 2011, 2011, 1-15.	0.9	0
755	One-particle correlation function in evanescent wave dynamic light scattering. Journal of Chemical Physics, 2012, 136, 204704.	3.0	20
756	Micropropulsion and microrheology in complex fluids via symmetry breaking. Physics of Fluids, 2012, 24, .	4.0	79
757	Squeeze flow of a Carreau fluid during sphere impact. Physics of Fluids, 2012, 24, .	4.0	35
758	Non-monotonic variation of viscous dissipation in confined liquid films: A reconciliation. Europhysics Letters, 2012, 97, 46001.	2.0	16

#	Article	IF	CITATIONS
759	Remote control of DNA-acting enzymes by varying the Brownian dynamics of a distant DNA end. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16546-16551.	7.1	25
760	Simulation of Particle Trajectories and Erosion in a Centrifugal Compressor. Journal of Turbomachinery, 2012, 134, .	1.7	3
761	Study of Sand Particle Trajectories and Erosion Into the First Compression Stage of a Turbofan. Journal of Turbomachinery, $2012,134,.$	1.7	25
762	Boundary conditions for creeping flow along periodic or random rough surfaces: experimental and theoretical results. Journal of Physics: Conference Series, 2012, 392, 012010.	0.4	2
763	Bio-inspired particle separator design based on the food retention mechanism by suspension-feeding fish. Bioinspiration and Biomimetics, 2012, 7, 046003.	2.9	6
764	Dynamics of free subduction from 3â€D boundary element modeling. Journal of Geophysical Research, 2012, 117, .	3.3	42
765	Motion of a solid particle in a shear flow along a porous slab. Journal of Fluid Mechanics, 2012, 713, 271-306.	3.4	3
766	Can Confinement-Induced Variations in the Viscous Dissipation be Measured?. Tribology Letters, 2012, 48, 1-9.	2.6	13
767	A two-sphere model for bacteria swimming near solid surfaces. Physics of Fluids, 2012, 24, .	4.0	36
768	Effect of Surfactant on Retention Behaviors of Polystyrene Latex Particles in Sedimentation Field-Flow Fractionation: Effective Boundary Slip Model Approach. Langmuir, 2012, 28, 10672-10681.	3.5	9
769	Hydrodynamic Force on a Microparticle Approaching a Wall in a Nanoparticle Dispersion: Observation of a Separation-Dependent Effective Viscosity. Langmuir, 2012, 28, 92-103.	3.5	9
770	Self-Assembly of Doublets from Flattened Polymer Colloids. Langmuir, 2012, 28, 4086-4094.	3.5	15
771	Measuring Single-Walled Carbon Nanotube Length Distributions from Diffusional Trajectories. ACS Nano, 2012, 6, 8424-8431.	14.6	51
772	Paradox of Stability of Nanoparticles at Very Low Ionic Strength. Langmuir, 2012, 28, 11032-11041.	3.5	18
773	Mechanisms of Directed Assembly of Colloidal Particles in Two Dimensions by Application of Electric Fields. Nanostructure Science and Technology, 2012, , 3-71.	0.1	4
774	Shear-affected depletion interaction. European Physical Journal E, 2012, 35, 60.	1.6	4
775	Crossover from Hydrodynamics to the Kinetic Regime in Confined Nanoflows. Physical Review Letters, 2012, 108, 084501.	7.8	24
776	Collision modelling for the interface-resolved simulation of spherical particles in viscous fluids. Journal of Fluid Mechanics, 2012, 709, 445-489.	3.4	118

#	Article	IF	CITATIONS
777	Tracking colloid transport in real pore structures: Comparisons with correlation equations and experimental observations. Water Resources Research, 2012, 48, .	4.2	10
778	Aggregation of Charged Colloidal Particles. Advances in Polymer Science, 2012, , 57-96.	0.8	44
779	Mathematical modeling of microfiltration of polydisperse suspension on heterogeneous membranes. Petroleum Chemistry, 2012, 52, 520-526.	1.4	5
780	Acoustic radiation- and streaming-induced microparticle velocities determined by microparticle image velocimetry in an ultrasound symmetry plane. Physical Review E, 2012, 86, 056307.	2.1	194
781	Drift velocity in non-isothermal inhomogeneous systems. Journal of Chemical Physics, 2012, 136, 204508.	3.0	16
782	Poreâ€Scale Numerical and Experimental Investigation of Colloid Retention at the Secondary Energy Minimum. Vadose Zone Journal, 2012, 11, .	2.2	9
783	Nanobiotechnology for the capture and manipulation of circulating tumor cells. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2012, 4, 291-309.	6.1	38
784	Physical ageing of the contact line on colloidal particles at liquid interfaces. Nature Materials, 2012, 11, 138-142.	27.5	258
785	Enhancement of current commensurate with mutual noise–noise correlation in a symmetric periodic substrate: The benefits of noise and nonlinearity. Chemical Physics, 2012, 402, 48-55.	1.9	6
786	Semi-analytic solution of the motion of two spheres in arbitrary shear flow. International Journal of Multiphase Flow, 2012, 42, 152-163.	3.4	11
787	Wafer-scale thin encapsulated two-dimensional nanochannels and its application toward visualization of single molecules. Journal of Colloid and Interface Science, 2012, 367, 455-459.	9.4	3
788	Numerical study on dielectrophoretic chaining of two ellipsoidal particles. Journal of Colloid and Interface Science, 2012, 374, 141-149.	9.4	31
789	Computer simulations of particle–bubble interactions and particle sliding using Discrete Element Method. Journal of Colloid and Interface Science, 2012, 381, 1-10.	9.4	26
790	Viscoplastic lubrication theory with application to bearings and the washboard instability of a planing plate. Journal of Non-Newtonian Fluid Mechanics, 2012, 169-170, 74-90.	2.4	14
791	On the enhanced drag force induced by permeation through a filtration membrane. Journal of Membrane Science, 2012, 392-393, 1-8.	8.2	26
792	A second-order accurate immersed boundary method for fully resolved simulations of particle-laden flows. Journal of Computational Physics, 2012, 231, 4469-4498.	3.8	302
793	The drainage of non-Newtonian fluids in the quasi-steady motion of a sphere towards a plane. Microfluidics and Nanofluidics, 2012, 12, 639-648.	2.2	2
794	Numerical investigation of lubrication force on a spherical particle moving to a plane wall at finite Reynolds numbers. International Journal of Multiphase Flow, 2013, 53, 40-53.	3.4	9

#	Article	IF	Citations
795	Anomalous Silica Colloid Stability and Gel Layer Mediated Interactions. Langmuir, 2013, 29, 8835-8844.	3.5	33
796	Influence of the hydrophobic force model on the capture of particles by bubbles: A computational study using Discrete Element Method. Advanced Powder Technology, 2013, 24, 786-795.	4.1	15
797	The Shaft of the Type 1 Fimbriae Regulates an External Force to Match the FimH Catch Bond. Biophysical Journal, 2013, 104, 2137-2148.	0.5	38
798	Capacitive detection of buried interfaces by a dynamic surface force apparatus. Review of Scientific Instruments, 2013, 84, 085113.	1.3	2
799	Self-Consistent Colloidal Energy and Diffusivity Landscapes in Macromolecular Solutions. Langmuir, 2013, 29, 12337-12341.	3.5	23
800	A multiphase DNS approach for handling solid particles motion with heat transfer. International Journal of Multiphase Flow, 2013, 53, 75-87.	3.4	15
801	Modeling and analysis of hydrodynamic and physico-chemical effects in bacterial deposition on surfaces. Biofouling, 2013, 29, 977-989.	2.2	13
802	Induced diffusion of tracers in a bacterial suspension: theory and experiments. Journal of Fluid Mechanics, 2013, 729, 423-444.	3.4	102
803	Brownian Dynamics of Subunit Addition-Loss Kinetics and Thermodynamics in Linear Polymer Self-Assembly. Biophysical Journal, 2013, 105, 2528-2540.	0.5	47
804	Three-dimensional problems of the hydrodynamic interaction between bodies in a viscous fluid in the vicinity of their contact. Fluid Dynamics, 2013, 48, 577-587.	0.9	4
805	Formation of nanoemulsions in stirred media mills. Chemical Engineering Science, 2013, 102, 300-308.	3.8	8
806	Automated microfluidic system for orientation control of mouse embryos., 2013,,.		7
807	Alternative dissipation mechanisms and the effect of the solvent in friction between polymer brushes on rough surfaces. Soft Matter, 2013, 9, 7234.	2.7	27
808	Water self-diffusion at the surface of silica glasses: effect of hydrophilic to hydrophobic transition. Molecular Physics, 2013, 111, 3410-3417.	1.7	21
809	Active suspensions in thin films: nutrient uptake and swimmer motion. Journal of Fluid Mechanics, 2013, 733, 528-557.	3.4	52
810	DEM simulations of initial deposition of colloidal particles around non-woven membrane spacers. Journal of Membrane Science, 2013, 442, 254-263.	8.2	8
811	Numerical simulation of retention and release of colloids in porous media at the pore scale. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 427, 33-40.	4.7	37
812	Rheology of polymer solutions using colloidal-probe atomic force microscopy. Physical Review E, 2013, 87, 062601.	2.1	7

#	Article	IF	Citations
813	The rate of adsorption of nanoparticles on microelectrode surfaces. Journal of Electroanalytical Chemistry, 2013, 693, 73-78.	3.8	13
814	Taste of Sugar at the Membrane: Thermodynamics and Kinetics of the Interaction of a Disaccharide with Lipid Bilayers. Biophysical Journal, 2013, 104, 622-632.	0.5	22
815	A model to estimate the size of aggregates formed in a Dissolved Air Flotation unit. Applied Mathematical Modelling, 2013, 37, 3036-3047.	4.2	9
816	Electrolyte dependence of particle motion near an electrode during ac polarization. Physical Review E, 2013, 87, .	2.1	25
817	Axisymmetric sedimentation of spherical particles in a viscoelastic fluid: Sphere–wall and sphere–sphere interactions. Journal of Rheology, 2013, 57, 857-880.	2.6	12
818	The effect of near wall hindered diffusion on nanoparticle–electrode impacts: A computational model. Journal of Electroanalytical Chemistry, 2013, 691, 28-34.	3.8	16
819	Collision of microswimmers in a viscous fluid. Physical Review E, 2013, 87, 053005.	2.1	11
820	Microfluidic ultralow interfacial tensiometry with magnetic particles. Lab on A Chip, 2013, 13, 119-125.	6.0	38
821	Flow pattern in the vicinity of self-propelling hot Janus particles. Physical Review E, 2013, 88, 012301.	2.1	92
822	Direct measurements of colloidal hydrodynamics near flat boundaries using oscillating optical tweezers. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 3497-3504.	2.6	13
823	Brownian motion in inhomogeneous suspensions. Physical Review E, 2013, 87, 062110.	2.1	25
824	A Theory of Macromolecular Chemotaxis. Journal of Physical Chemistry B, 2013, 117, 7626-7652.	2.6	58
825	Size Selectivity in Artificial Cilia–Particle Interactions: Mimicking the Behavior of Suspension Feeders. Langmuir, 2013, 29, 4616-4621.	3.5	18
826	Gas Flows near Solids Coated with Thin Water Films. Journal of Physical Chemistry C, 2013, 117, 6235-6244.	3.1	8
827	Evanescent Wave-Based Flow Diagnostics. Journal of Fluids Engineering, Transactions of the ASME, 2013, 135, .	1.5	11
828	Micro and Extended-Nano Fluidics and Optics for Chemical and Bioanalytical Technology. Nano-optics and Nanophotonics, 2013, , 121-164.	0.2	3
829	Anisotropic diffusion of concentrated hard-sphere colloids near a hard wall studied by evanescent wave dynamic light scattering. Journal of Chemical Physics, 2013, 139, 164905.	3.0	20
830	Spatial measurement of spurious forces with optical tweezers. , 2013, , .		0

#	Article	IF	CITATIONS
831	Axisymmetric creeping motion of particles towards a circular orifice or disk. Physics of Fluids, 2013, 25, .	4.0	3
832	Numerical modelling of finite-size particle collisions in a viscous fluid. Physics of Fluids, 2013, 25, .	4.0	59
833	On the hydrodynamic interaction between a particle and a permeable surface. Physics of Fluids, 2013, 25, 073103.	4.0	26
834	Hydrodynamic force measurements under precisely controlled conditions: Correlation of slip parameters with the mean free path. Physics of Fluids, 2013, 25, .	4.0	8
835	Hexatic-to-Disorder Transition in Colloidal Crystals Near Electrodes: Rapid Annealing of Polycrystalline Domains. Physical Review Letters, 2013, 111, 128302.	7.8	32
836	Stokes Flow Around Slowly Rotating Concentric Pervious Spheres. Archive of Mechanical Engineering, 2013, 60, 165-219.	0.7	1
837	Workshop on membrane fouling and monitoring: a summary. Desalination and Water Treatment, 2013, 51, 6401-6406.	1.0	6
838	One-shot measurement of the air-liquid interface effect by a spectral-domain low-coherence dynamic light scattering technique. Proceedings of SPIE, 2013, , .	0.8	0
839	Molecular Dynamics Simulations of Nanoparticle Interactions with a Planar Wall: Does Shape Matter?. Communications in Computational Physics, 2013, 13, 900-915.	1.7	2
841	Particle dispersion and deposition., 0,, 232-267.		0
842	Tunable Aggregation by Competing Biomolecular Interactions. Langmuir, 2014, 30, 15253-15260.	3.5	5
843	Absolute position total internal reflection microscopy with an optical tweezer. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5609-15.	7.1	30
844	Direct observation of submicron Brownian particles at a solid–liquid interface by extremely low coherence dynamic light scattering. Applied Physics Express, 2014, 7, 032502.	2.4	3
845	A multiblob approach to colloidal hydrodynamics with inherent lubrication. Journal of Chemical Physics, 2014, 141, 204102.	3.0	15
846	DNS of Dispersed Multiphase Flows with Heat Transfer and Rarefaction Effects. Journal of Computational Multiphase Flows, 2014, 6, 193-206.	0.8	1
847	Local characterization of hindered Brownian motion by using digital video microscopy and 3D particle tracking. Review of Scientific Instruments, 2014, 85, 023708.	1.3	30
848	Brownian motion of tethered nanowires. Physical Review E, 2014, 89, 053010.	2.1	8
849	Lattice-Boltzmann simulations of the drag force on a sphere approaching a superhydrophobic striped plane. Journal of Chemical Physics, 2014, 140, 034707.	3.0	12

#	Article	IF	CITATIONS
850	Effective surface dilatational viscosity of highly concentrated particle-laden interfaces. Physical Review E, 2014, 90, 053005.	2.1	6
851	Coating thickness and coverage effects on the forces between silica nanoparticles in water. Journal of Chemical Physics, 2014, 140, 194904.	3.0	28
852	Hydrodynamic interaction between a capsule and a solid boundary in unbounded Stokes flow. Physics of Fluids, 2014, 26, 111903.	4.0	4
853	Fluid-Structure Interaction and Biomedical Applications. Advances in Mathematical Fluid Mechanics, 2014, , .	0.1	41
854	Anisotropic mobility of particles near the interface of two immiscible liquids. Physics of Fluids, 2014, 26, 092003.	4.0	9
855	Stochastic interactions of two Brownian hard spheres in the presence of depletants. Journal of Chemical Physics, 2014, 140, 214906.	3.0	3
856	Modelling the dynamics of a sphere approaching and bouncing on a wall in a viscous fluid. Journal of Fluid Mechanics, 2014, 747, 422-446.	3.4	50
857	Thermally driven Marangoni surfers. Journal of Fluid Mechanics, 2014, 752, 589-601.	3.4	62
858	Simulation of an Avalanche in a Fluid with a Soft-Sphere/Immersed Boundary Method Including a Lubrication Force. Journal of Computational Multiphase Flows, 2014, 6, 391-405.	0.8	11
859	Structural and dynamical properties of heterogeneous solid–liquid Ta–Cu interfaces: A molecular dynamics study. Computational Materials Science, 2014, 86, 64-72.	3.0	15
860	Direct numerical simulation of a hydrodynamic interaction between settling particles and rising microbubbles. European Journal of Mechanics, B/Fluids, 2014, 43, 65-75.	2.5	10
861	Multi-resolution 3D visualization of the early stages of cellular uptake of peptide-coated nanoparticles. Nature Nanotechnology, 2014, 9, 198-203.	31.5	156
862	Shielding of a Microdisc Electrode Surrounded by an Adsorbing Surface. ChemElectroChem, 2014, 1, 917-924.	3.4	24
863	Dynamics of magnetic particles near a surface: Model and experiments on field-induced disaggregation. Physical Review E, 2014, 89, 042306.	2.1	8
864	Microscale simulation of particle deposition in porous media. Journal of Colloid and Interface Science, 2014, 417, 227-237.	9.4	55
865	A second-order accurate immersed boundary-lattice Boltzmann method for particle-laden flows. Journal of Computational Physics, 2014, 268, 269-301.	3.8	57
866	A Lagrangian VOF tensorial penalty method for the DNS of resolved particle-laden flows. Journal of Computational Physics, 2014, 256, 582-614.	3.8	57
867	The onset of cavitation during the collision of a sphere with a wetted surface. Experiments in Fluids, 2014, 55, 1.	2.4	7

#	Article	IF	CITATIONS
868	Polyelectrolyte Complexes in the Dispersed and Solid State I. Advances in Polymer Science, 2014, , .	0.8	11
869	Electrophoretic mobilities of counterions and a polymer in cylindrical pores. Journal of Chemical Physics, 2014, 141, 114901.	3.0	13
870	Direct measurement of interaction forces between charged multilamellar vesiclesâ€. Soft Matter, 2014, 10, 7769-7780.	2.7	15
871	Voltammetric Sensitivity Enhancement by Using Preconcentration Adjacent to the Electrode: Simulation, Critical Evaluation, and Insights. Journal of Physical Chemistry C, 2014, 118, 24520-24532.	3.1	34
872	Direct measurements of particle–surface interactions in aqueous solutions with total internal reflection microscopy. Chemical Communications, 2014, 50, 6556-6570.	4.1	33
873	Translational and rotational near-wall diffusion of spherical colloids studied by evanescent wave scattering. Soft Matter, 2014, 10, 4312.	2.7	31
874	Anisotropic diffusion of spherical particles in closely confining microchannels. Physical Review E, 2014, 89, 062305.	2.1	52
875	Designing Bioinspired Artificial Cilia to Regulate Particle–Surface Interactions. Journal of Physical Chemistry Letters, 2014, 5, 1691-1700.	4.6	22
876	Understanding nano-impacts: impact times and near-wall hindered diffusion. Chemical Science, 2014, 5, 4592-4598.	7.4	47
878	Progress in particle resuspension from rough surfaces by turbulent flows. Progress in Energy and Combustion Science, 2014, 45, 1-53.	31.2	157
879	Control of Gas Flow in Narrow Channels Using an Electric Field To Modify the Flow Boundary Condition. Journal of Physical Chemistry C, 2014, 118, 7480-7488.	3.1	5
880	Experimental study on air-liquid interface effect of Brownian dynamics using spectral-domain low-coherence dynamic light scattering. Optical Review, 2014, 21, 378-381.	2.0	7
881	A Critical Evaluation of the Interpretation of Electrocatalytic Nanoimpacts. Journal of Physical Chemistry C, 2014, 118, 17756-17763.	3.1	32
882	Multiscale treatment of mechanical contact problems involving thin polymeric layers. Modelling and Simulation in Materials Science and Engineering, 2014, 22, 045012.	2.0	3
883	Constraining effective rheology through parallel joint geodynamic inversion. Tectonophysics, 2014, 631, 197-211.	2.2	56
884	Effect of correcting near-wall forces on nanoparticle transport in a microchannel. Particuology, 2014, 16, 84-90.	3.6	10
885	Using the DEM-CFD method to predict Brownian particle deposition in a constricted tube. Particuology, 2014, 15, 94-106.	3.6	30
886	Characteristics of Displacement Data Due to Time Scale for the Combination of Brownian Motion with Intermittent Adsorption. Procedia Computer Science, 2014, 29, 281-288.	2.0	3

#	Article	IF	CITATIONS
887	Numerical study of the hydrodynamic drag force in atomic force microscopy measurements undertaken in fluids. Micron, 2014, 66, 37-46.	2.2	8
888	Convenient formul $ ilde{A}^{\dagger}_1$ for the drag on a prolate ellipsoid moving along its axis of symmetry perpendicular to a plane surface. International Journal of Multiphase Flow, 2014, 65, 138-142.	3.4	4
889	On the relevance of collision modeling for interface-resolving simulations of sediment transport in open channel flow. International Journal of Multiphase Flow, 2014, 58, 214-235.	3.4	65
890	Studies of the Anisotropic Diffusive Motion of Nanoparticles at the Solid-Liquid Interface Using Near-Field Fluorescence Correlation Spectroscopy. Electrochemistry, 2014, 82, 376-379.	1.4	0
891	Statistical characterisation of singleâ€stranded DNA motion near glass surface beyond diffusion coefficient. Micro and Nano Letters, 2014, 9, 257-260.	1.3	11
892	Fluid Forces on Particles. , 0, , 130-181.		2
893	Sedimentation of spheroidal bodies near walls in viscous fluids: glancing, reversing, tumbling and sliding. Journal of Fluid Mechanics, 2015, 772, 600-629.	3.4	22
895	Collision model for fully resolved simulations of flows laden with finite-size particles. Physical Review E, 2015, 92, 053012.	2.1	93
896	Kubo formulas for dispersion in heterogeneous periodic nonequilibrium systems. Physical Review E, 2015, 92, 062103.	2.1	13
897	Currency target-zone modeling: An interplay between physics and economics. Physical Review E, 2015, 92, 062828.	2.1	3
898	Investigation of Surface Forces in Highly Viscous Polymer Solutions by Colloidal Probe AFM Method. Journal of the Society of Powder Technology, Japan, 2015, 52, 188-195.	0.1	0
899	The Raspberry model for hydrodynamic interactions revisited. II. The effect of confinement. Journal of Chemical Physics, 2015, 143, 084108.	3.0	26
900	Threshold-free evaluation of near-surface diffusion and adsorption-dominated motion from single-molecule tracking data of single-stranded DNA through total internal reflection fluorescence microscopy. Japanese Journal of Applied Physics, 2015, 54, 125601.	1.5	14
901	Role of time scales for the non-Gaussianity of the Brownian motion combined with intermittent adsorption. Journal of Computational Science, 2015, 10, 311-316.	2.9	5
902	Tethered cells in fluid flows—beyond the Stokes' drag force approach. Physical Biology, 2015, 12, 056006.	1.8	7
903	A comparative study on the effect of hydrodynamic interactions in the non-sequential deposition of concentrated colloidal dispersions: stochastic rotation dynamics and Brownian dynamics simulations. Molecular Physics, 2015, 113, 3587-3597.	1.7	3
904	Measurement of single leukemia cell's density and mass using optically induced electric field in a microfluidics chip. Biomicrofluidics, 2015, 9, 022406.	2.4	29
905	On the friction and adhesion hysteresis between polymer brushes attached to curved surfaces: Rate and solvation effects. Friction, 2015, 3, 148-160.	6.4	16

#	Article	IF	Citations
906	Diffusive dynamics of nanoparticles in ultra-confined media. Soft Matter, 2015, 11, 7515-7524.	2.7	34
907	Hindered Brownian diffusion in a square-shaped geometry. Journal of Colloid and Interface Science, 2015, 447, 25-32.	9.4	9
908	TIRF-enhanced nanobeads' Brownian diffusion measurements for detecting CRP in human serum. Microfluidics and Nanofluidics, 2015, 19, 85-94.	2.2	8
909	Creeping flow past rotating axi-symmetric isolated body-class of deformed sphere. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2015, 37, 1199-1215.	1.6	1
910	Field experimental observations of highly graded sediment plumes. Marine Pollution Bulletin, 2015, 95, 72-80.	5.0	3
911	Hydrodynamic coarsening in phase-separated silicate melts. Acta Materialia, 2015, 92, 233-242.	7.9	18
912	Effects of shear and walls on the diffusion of colloids in microchannels. Physical Review E, 2015, 91, 052305.	2.1	14
913	Force Balance Model for Bubble Rise, Impact, and Bounce from Solid Surfaces. Langmuir, 2015, 31, 6763-6772.	<b>3.</b> 5	59
914	Langevin dynamics for vector variables driven by multiplicative white noise: A functional formalism. Physical Review E, 2015, 91, 042103.	2.1	10
915	Curvature capillary migration of microspheres. Soft Matter, 2015, 11, 6768-6779.	2.7	47
916	The effect of insulator nano-sheath thickness on the steady state current at a micro-disc electrode. Journal of Electroanalytical Chemistry, 2015, 745, 66-71.	3.8	9
917	Turbulent channel flow of dense suspensions of neutrally buoyant spheres. Journal of Fluid Mechanics, 2015, 764, 463-487.	3.4	203
918	A Colloid Model System for Interfacial Sorption Kinetics. Langmuir, 2015, 31, 3368-3376.	3.5	5
919	Topology-Controlled Relaxation Dynamics of Single Branched Polymers. ACS Macro Letters, 2015, 4, 446-452.	4.8	40
920	Behavior of Nanoparticles in Extended Nanospace Measured by Evanescent Wave-Based Particle Velocimetry. Analytical Chemistry, 2015, 87, 4087-4091.	6.5	22
921	Full Characterization of Colloidal Dynamics at Low Péclet Numbers. Langmuir, 2015, 31, 10351-10357.	3 <b>.</b> 5	8
922	Direct Measurement of Macromolecule-Coated Colloid–Mucus Interactions. Langmuir, 2015, 31, 9076-9085.	3.5	19
923	The Mechanisms for Nanoparticle Surface Diffusion and Chain Self-Assembly Determined from Real-Time Nanoscale Kinetics in Liquid. Journal of Physical Chemistry C, 2015, 119, 21261-21269.	3.1	86

#	Article	IF	CITATIONS
924	Direct measurement of thermophoretic forces. Soft Matter, 2015, 11, 2379-2386.	2.7	50
925	Fast, Label-Free Tracking of Single Viruses and Weakly Scattering Nanoparticles in a Nanofluidic Optical Fiber. ACS Nano, 2015, 9, 12349-12357.	14.6	112
926	A numerical study of the effect of particle properties on the radial distribution of suspensions in pipe flow. Computers and Fluids, 2015, 108, 1-12.	2.5	19
927	A multiscale approach to the adsorption of core–shell nanoparticles at fluid interfaces. Soft Matter, 2015, 11, 118-129.	2.7	25
928	Mathematical modeling and numerical simulations of the motion of nanoparticles in straight tube. Advances in Mechanical Engineering, 2016, 8, 168781401665696.	1.6	2
929	Bioâ€lubricant flow behaviour in miniâ€channels. Lubrication Science, 2016, 28, 221-242.	2.1	4
930	111 years of Brownian motion. Soft Matter, 2016, 12, 6331-6346.	2.7	129
931	Analysis of nonâ€Brownian particle deposition from turbulent liquidâ€flow. AICHE Journal, 2016, 62, 891-904.	3.6	6
932	Squeeze flow between a sphere and a textured wall. Physics of Fluids, 2016, 28, .	4.0	11
933	Ecotoxicology of Carbon Nanotubes Toward Amphibian Larvae. , 2016, , 931-940.		0
934	Electric Double Layer Capacitor., 2016,, 948-948.		0
935	Reduced particle settling speed in turbulence. Journal of Fluid Mechanics, 2016, 808, 153-167.	3.4	39
936	Hydrodynamics of suspensions of passive and active rigid particles: a rigid multiblob approach. Communications in Applied Mathematics and Computational Science, 2016, 11, 217-296.	1.8	63
937	$\langle i \rangle$ In situ $\langle i \rangle$ contrast calibration to determine the height of individual diffusing nanoparticles in a tunable confinement. Journal of Applied Physics, 2016, 119, .	2.5	14
938	Brownian motion near a liquid-gas interface. Journal of Chemical Physics, 2016, 145, .	3.0	8
939	Effect of surfactant on motion and deformation of compound droplets in arbitrary unbounded Stokes flows. Journal of Fluid Mechanics, 2016, 803, 200-249.	3.4	38
940	Interactions of Colloidal Particles and Droplets with Water–Oil Interfaces Measured by Total Internal Reflection Microscopy. Langmuir, 2016, 32, 13752-13758.	3.5	12
941	Wall-retardation effects on particles settling through non-Newtonian fluids in parallel plates. Chemical Papers, 2016, 70, .	2.2	11

#	ARTICLE	IF	CITATIONS
942	A micro-nano-rheometer for the mechanics of soft matter at interfaces. Review of Scientific Instruments, 2016, 87, 113906.	1.3	15
943	Modeling of conductive particle motion in viscous medium affected by an electric field considering particle-electrode interactions and microdischarge phenomenon. Physics of Fluids, 2016, 28, 107102.	4.0	20
944	Measurement of second-order response without perturbation. Europhysics Letters, 2016, 116, 60003.	2.0	11
945	Sedimentation of finite-size spheres in quiescent and turbulent environments. Journal of Fluid Mechanics, 2016, 788, 640-669.	3.4	74
946	Cavitation structures formed during the collision of a sphere with an ultra-viscous wetted surface. Journal of Fluid Mechanics, 2016, 796, 473-515.	3.4	7
947	Near-wall hindered diffusion: Implications for surface-based sensors. Sensors and Actuators B: Chemical, 2016, 234, 420-425.	7.8	11
948	Interfacial rheometry of polymer at a water–oil interface by intra-pair magnetophoresis. Soft Matter, 2016, 12, 5551-5562.	2.7	7
949	Electropermanent magnet actuation for droplet ferromicrofluidics. Technology, 2016, 04, 110-119.	1.4	14
950	Effective drifts in dynamical systems with multiplicative noise: a review of recent progress. Reports on Progress in Physics, 2016, 79, 053901.	20.1	62
951	Understanding nano-impacts: Reversible agglomeration and near-wall hindered diffusion. Journal of Electroanalytical Chemistry, 2016, 779, 18-24.	3.8	9
952	Local dissipation properties and collision dynamics in a sustained homogeneous turbulent suspension composed of finite size particles. International Journal of Multiphase Flow, 2016, 85, 369-379.	3.4	16
953	When does near-wall hindered diffusion influence mass transport towards targets?. Physical Chemistry Chemical Physics, 2016, 18, 26539-26549.	2.8	23
954	Electrophoretic motion of a liquid droplet and a bubble normal to an air–water interface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 507, 124-133.	4.7	13
955	Numerical study of the sedimentation of spheroidal particles. International Journal of Multiphase Flow, 2016, 87, 16-34.	3.4	80
956	A combined 3D and 2D light scattering study on aqueous colloidal model systems with tunable interactions. Soft Matter, 2016, 12, 8485-8494.	2.7	3
957	A sphere in a second degree polynomial creeping flow parallel to a plane, impermeable and slipping wall. Quarterly Journal of Mechanics and Applied Mathematics, 2016, 69, 353-390.	1.3	4
958	Surface forces between colloidal particles at high hydrostatic pressure. Physical Review E, 2016, 93, 022608.	2.1	6
959	Dynamics of an optically confined nanoparticle diffusing normal to a surface. Physical Review E, 2016, 93, 062139.	2.1	2

#	Article	IF	CITATIONS
960	Short-time dynamics of monomers and dimers in quasi-two-dimensional colloidal mixtures. Physical Review E, 2016, 94, 012608.	2.1	10
961	Hydrodynamic Boundary Effects on Thermophoresis of Confined Colloids. Physical Review Letters, 2016, 116, 138302.	7.8	34
962	Subfemtonewton Force Spectroscopy at the Thermal Limit in Liquids. Physical Review Letters, 2016, 116, 228001.	7.8	22
963	Probing effective slippage on superhydrophobic stripes by atomic force microscopy. Soft Matter, 2016, 12, 6910-6917.	2.7	14
964	External control strategies for self-propelled particles: Optimizing navigational efficiency in the presence of limited resources. Physical Review E, 2016, 94, 012617.	2.1	21
965	The hydrodynamics of bubble rise and impact with solid surfaces. Advances in Colloid and Interface Science, 2016, 235, 214-232.	14.7	56
966	General Model of Hindered Diffusion. Journal of Physical Chemistry Letters, 2016, 7, 4317-4321.	4.6	27
967	Fluorescence Monitored Voltammetry of Single Attoliter Droplets. Analytical Chemistry, 2016, 88, 11213-11221.	6.5	29
968	Rotating colloids in rotating magnetic fields: Dipolar relaxation and hydrodynamic coupling. Physical Review E, 2016, 94, 042613.	2.1	13
970	Diffusing Colloidal Probes of kT-Scale Biomaterial–Cell Interactions. Langmuir, 2016, 32, 12212-12220.	3.5	4
971	Single-Bond Association Kinetics Determined by Tethered Particle Motion: Concept and Simulations. Biophysical Journal, 2016, 111, 1612-1620.	0.5	5
972	Can Nanoimpacts Detect Single-Enzyme Activity? Theoretical Considerations and an Experimental Study of Catalase Impacts. ACS Catalysis, 2016, 6, 8313-8320.	11.2	38
973	Hydrodynamic interactions in freely suspended liquid crystal films. Physical Review E, 2016, 94, 052701.	2.1	12
974	Non-linear, non-monotonic effect of nano-scale roughness on particle deposition in absence of an energy barrier: Experiments and modeling. Scientific Reports, 2016, 5, 17747.	3.3	27
975	Self-diffusiophoretic colloidal propulsion near a solid boundary. Physics of Fluids, 2016, 28, .	4.0	103
976	Near-Wall Hindered Diffusion in Convective Systems: Transport Limitations in Colloidal and Nanoparticulate Systems. Journal of Physical Chemistry C, 2016, 120, 10629-10640.	3.1	18
977	Using a Molecular Stopwatch to Study Particle Uptake in Pickering Emulsions. Langmuir, 2016, 32, 6387-6397.	3.5	8
978	Emergent behavior in active colloids. Journal of Physics Condensed Matter, 2016, 28, 253001.	1.8	327

#	Article	IF	CITATIONS
979	Three-dimensional manipulation of single cells using surface acoustic waves. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1522-1527.	7.1	448
980	Experimental Investigation of Drag and Lift Forces on Microparticles in Low Reynolds Number Poiseuille Flow in Microchannel. Journal of Dispersion Science and Technology, 2016, 37, 1767-1777.	2.4	5
981	A noninvasive method to predict fluid viscosity and nanoparticle size using total internal reflection fluorescence microscopy (TIRFM) imaging. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	1
982	Effective Interaction between Active Colloids and Fluid Interfaces Induced by Marangoni Flows. Physical Review Letters, 2016, 116, 078301.	7.8	57
983	Forces between extended hydrophobic solids: Is there a long-range hydrophobic force?. Current Opinion in Colloid and Interface Science, 2016, 22, 51-58.	7.4	46
984	Colloidal Hydrodynamics and Interfacial Effects. Lecture Notes in Physics, 2016, , 313-386.	0.7	5
985	The unsteady hydrodynamic force during the collision of two spheres in a viscous fluid. Acta Mechanica, 2016, 227, 565-580.	2.1	4
986	Reply to the Comments on "Curvature capillary migration of microspheres―by P. Galatola and A. WA¼rger. Soft Matter, 2016, 12, 333-336.	2.7	6
987	Dynamics of colloids confined in microcylinders. Soft Matter, 2016, 12, 1621-1630.	2.7	5
988	Fundamentals and applications of inertial microfluidics: a review. Lab on A Chip, 2016, 16, 10-34.	6.0	737
989	The effects of near wall corrections to hydrodynamic forces on particle deposition and transport in vertical turbulent boundary layers. International Journal of Multiphase Flow, 2016, 79, 62-73.	3.4	12
990	Effect of filtration rate on coal-sand dual-media filter performances for microalgae removal. Environmental Technology (United Kingdom), 2017, 38, 345-352.	2.2	14
991	Exact solutions for hydrodynamic interactions ofÂtwo squirming spheres. Journal of Fluid Mechanics, 2017, 813, 618-646.	3.4	68
992	Noncontact Viscoelastic Measurement of Polymer Thin Films in a Liquid Medium Using Long-Needle Atomic Force Microscopy. Langmuir, 2017, 33, 1385-1390.	3.5	12
993	Ratchet effect in an underdamped periodic potential and its characterisation. Physica A: Statistical Mechanics and Its Applications, 2017, 468, 219-227.	2.6	9
994	Magnetohydrodynamic two-phase dusty fluid flow and heat model over deforming isothermal surfaces. Physics of Fluids, 2017, 29, .	4.0	80
995	Squeeze-film flow between a curved impermeable bearing and a flat porous bed. Physics of Fluids, 2017, 29, 023101.	4.0	10
996	New Information on the Hydrophobic Interaction Revealed by Frequency Modulation AFM. Langmuir, 2017, 33, 2485-2496.	3.5	30

#	Article	IF	CITATIONS
997	Hydrodynamic mobility of a solid particle near a spherical elastic membrane: Axisymmetric motion. Physical Review E, 2017, 95, 013108.	2.1	18
998	Experimental observation of Shapiro-steps in colloidal monolayers driven across time-dependent substrate potentials. Soft Matter, 2017, 13, 4024-4028.	2.7	14
999	Particle Deposition Kinetics of Colloidal Suspensions in Microchannels at High Ionic Strength. Langmuir, 2017, 33, 6471-6480.	3.5	22
1000	Colloidal diffusion in confined geometries. Physical Chemistry Chemical Physics, 2017, 19, 23632-23641.	2.8	18
1001	A simple collision model for small bubbles. Journal of Physics Condensed Matter, 2017, 29, 124005.	1.8	9
1002	Hydrodynamic force on a sphere normal to an obstacle due to a non-uniform flow. Journal of Fluid Mechanics, 2017, 818, 407-434.	3.4	12
1003	Particle–boundary interaction in a shear-driven cavity flow. Theoretical and Computational Fluid Dynamics, 2017, 31, 427-445.	2.2	37
1004	Manipulating colloidal residue deposit from drying droplets: Air/liquid interface capture competes with coffee-ring effect. Chemical Engineering Science, 2017, 167, 78-87.	3.8	18
1005	Playing with Emulsion Formulation to Control the Perforation of a Freely Expanding Liquid Sheet. Langmuir, 2017, 33, 3458-3467.	3.5	11
1006	Interparticle Capillary Forces at a Fluid–Fluid Interface with Strong Polymer-Induced Aging. Langmuir, 2017, 33, 696-705.	3.5	12
1007	Mobility of an axisymmetric particle near an elastic interface. Journal of Fluid Mechanics, 2017, 811, 210-233.	3.4	28
1008	Orthogonal Nanoparticle Size, Polydispersity, and Stability Characterization with Near-Field Optical Trapping and Light Scattering. ACS Photonics, 2017, 4, 106-113.	6.6	9
1009	Regulation of Surface Charge by Biological Osmolytes. Journal of the American Chemical Society, 2017, 139, 15013-15021.	13.7	21
1010	Elliptical orbits of microspheres in an evanescent field. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11087-11091.	7.1	12
1011	Fast Agglomeration of Ultrafine Hydrophobic Particles Using a High-Internal-Phase Emulsion Binder Comprising Permeable Hydrophobic Films. Industrial & Engineering Chemistry Research, 2017, 56, 10658-10666.	3.7	20
1012	Noise-induced drift in two-dimensional anisotropic systems. Physical Review E, 2017, 96, 042141.	2.1	2
1013	Stalk-length-dependence of the contractility of <i>Vorticella convallaria </i> . Physical Biology, 2017, 14, 066002.	1.8	4
1014	Particle dispersion in porous media: Differentiating effects of geometry and fluid rheology. Physical Review E, 2017, 96, 022610.	2.1	18

#	Article	IF	CITATIONS
1015	Effects of granular temperature on inter-phase drag in gas-solid flows. Powder Technology, 2017, 321, 435-443.	4.2	42
1016	Non-wetting impact of a sphere onto a bath and its application to bouncing droplets. Journal of Fluid Mechanics, 2017, 826, 97-127.	3.4	21
1017	On the kinematics and dynamics of crystalâ€rich systems. Journal of Geophysical Research: Solid Earth, 2017, 122, 6131-6159.	3.4	64
1018	Interfacial colloidal rod dynamics: Coefficients, simulations, and analysis. Journal of Chemical Physics, 2017, 147, 054902.	3.0	16
1019	Impact of Nano- and Mesoscales on Macroscopic Cation Conductivity in Perfluorinated-Sulfonic-Acid Membranes. Journal of Physical Chemistry C, 2017, 121, 28262-28274.	3.1	25
1020	Test of the diffusing-diffusivity mechanism using near-wall colloidal dynamics. Physical Review E, 2017, 96, 042604.	2.1	26
1021	Explicit role of ionic strength in retention behavior of polystyrene latex particles in sedimentation field-flow fractionation: Slip boundary model. Journal of Chromatography A, 2017, 1528, 75-82.	3.7	1
1022	Noncontact Viscoelastic Imaging of Living Cells Using a Long-Needle Atomic Force Microscope with Dual-Frequency Modulation. Physical Review Applied, 2017, 8, .	3.8	21
1023	Interfaceâ€resolved simulations of normal collisions of spheres on a wet surface. AICHE Journal, 2017, 63, 4774-4787.	3.6	14
1024	Kinematics and dynamics of suspended gasifying particle. Acta Mechanica, 2017, 228, 1135-1151.	2.1	3
1025	Anisotropic hydrodynamic function of dense confined colloids. Physical Review E, 2017, 95, 062601.	2.1	5
1026	Modeling and simulation of the motion of nanoparticles in cylindrical capillaries allowing particleâ€toâ€wall interactions. Mathematical Methods in the Applied Sciences, 2017, 40, 3111-3128.	2.3	3
1027	Four-way coupled Eulerian–Lagrangian Direct Numerical Simulations in a vertical laminar channel flow. International Journal of Multiphase Flow, 2017, 89, 92-107.	3.4	11
1028	Nanoparticle transport in heterogeneous porous media with particle tracking numerical methods. Computational Particle Mechanics, 2017, 4, 87-100.	3.0	9
1029	Electrode–particle impacts: a users guide. Physical Chemistry Chemical Physics, 2017, 19, 28-43.	2.8	196
1030	Dissipative Interactions. Interface Science and Technology, 2017, , 169-325.	3.3	1
1031	An uncertainty budget analysis on the Hamaker constant determined when fitting force-distance curves for a sphere-plate system. Measurement: Journal of the International Measurement Confederation, 2018, 118, 120-134.	5.0	1
1032	Brownian motion near an elastic cell membrane: A theoretical study. European Physical Journal E, 2018, 41, 19.	1.6	20

#	Article	IF	CITATIONS
1033	Effective particle size from molecular dynamics simulations in fluids. Theoretical and Computational Fluid Dynamics, 2018, 32, 215-233.	2.2	2
1037	Analysis of a model microswimmer with applications to blebbing cells and mini-robots. Journal of Mathematical Biology, 2018, 76, 1699-1763.	1.9	9
1038	Liquid Cell Electron Microscopy for the Study of Growth Dynamics of Nanomaterials and Structure of Soft Matter., 2018,, 1-31.		4
1039	In-situ liquid-cell TEM study of radial flow-guided motion of octahedral Au nanoparticles and nanoparticle clusters. Nano Research, 2018, 11, 4697-4707.	10.4	17
1040	The role of near-wall drag effects in the dynamics of tethered DNA under shear flow. Soft Matter, 2018, 14, 2219-2226.	2.7	4
1041	The Work of Titin Protein Folding as a Major Driver in Muscle Contraction. Annual Review of Physiology, 2018, 80, 327-351.	13.1	66
1042	Packing of sedimenting equiaxed dendrites. Physical Review E, 2018, 97, 012910.	2.1	8
1043	Rolling and aging in temperature-ramp soft adhesion. Physical Review E, 2018, 97, 012609.	2.1	4
1044	Contact Charge Electrophoresis: Fundamentals and Microfluidic Applications. Langmuir, 2018, 34, 6315-6327.	3.5	34
1045	Self-diffusiophoresis induced by fluid interfaces. Soft Matter, 2018, 14, 1375-1388.	2.7	27
1046	Equilibrium structure and diffusion in concentrated hydrodynamically interacting suspensions confined by a spherical cavity. Journal of Fluid Mechanics, 2018, 836, 413-450.	3.4	20
1047	A review on determination of particle–bubble encounter using analytical, experimental and numerical methods. Minerals Engineering, 2018, 122, 296-311.	4.3	60
1048	Local lubrication model for spherical particles within incompressible Navier-Stokes flows. Physical Review E, 2018, 97, 033313.	2.1	17
1049	Dynamics and rheology of particles in shear-thinning fluids. Journal of Non-Newtonian Fluid Mechanics, 2018, 262, 107-114.	2.4	18
1050	Theory for controlling individual self-propelled micro-swimmers by photon nudging I: directed transport. Physical Chemistry Chemical Physics, 2018, 20, 10502-10520.	2.8	34
1051	Electroviscous Dissipation in Aqueous Electrolyte Films with Overlapping Electric Double Layers. Journal of Physical Chemistry B, 2018, 122, 933-946.	2.6	16
1052	The effect of polydispersity in a turbulent channel flow laden with finite-size particles. European Journal of Mechanics, B/Fluids, 2018, 67, 54-64.	2.5	11
1053	Heat transfer in laminar Couette flow laden with rigid spherical particles. Journal of Fluid Mechanics, 2018, 834, 308-334.	3.4	22

#	Article	IF	CITATIONS
1054	Near wall dynamics of a spherical particle in crowded suspensions of colloidal rods – dynamic information from TIRM revisited. Soft Matter, 2018, 14, 9232-9242.	2.7	4
1055	Measurement of the Casimir force in a gas and in a liquid. Physical Review B, 2018, 98, .	3.2	14
1056	Fundamental solution of unsteady Stokes equations and force on an oscillating sphere near a wall. Physical Review E, 2018, 98, .	2.1	14
1057	Universal diagram for the kinetics of particle deposition in microchannels. Physical Review E, 2018, 98,	2.1	14
1058	Patchy colloidal particles at the fluid–fluid interface. Soft Matter, 2018, 14, 9457-9465.	2.7	3
1059	Long-time dynamics and hydrodynamic correlations in quasi-two-dimensional anisotropic colloidal mixtures. Physical Review E, 2018, 98, .	2.1	5
1060	Tunable colloid trajectories in nematic liquid crystals near wavy walls. Nature Communications, 2018, 9, 3841.	12.8	32
1061	Bewegung fester Partikel in Gasen und Flýssigkeiten. Springer Reference Technik, 2018, , 1-17.	0.0	3
1062	Modeling colloid transport in fractures with spatially variable aperture and surface attachment. Journal of Hydrology, 2018, 566, 735-742.	5.4	18
1063	Mechanical Characterization of hiPSCâ€Derived Cardiac Tissues for Quality Control. Advanced Biology, 2018, 2, 1800251.	3.0	6
1064	Oscillatory switching centrifugation: dynamics of a particle in a pulsating vortex. Journal of Fluid Mechanics, 2018, 857, .	3.4	8
1065	Rolling and Sliding of Spheres Inside Horizontal Channels. , 2018, , .		0
1066	Hydrodynamic interactions between aerosol particles in the transition regime. Journal of Fluid Mechanics, 2018, 855, 535-553.	3.4	5
1067	Three-Dimensional Measurement of the Helicity-Dependent Forces on a Mie Particle. Physical Review Letters, 2018, 120, 223901.	7.8	25
1068	Interface-resolved simulations of particle suspensions in Newtonian, shear thinning and shear thickening carrier fluids. Journal of Fluid Mechanics, 2018, 852, 329-357.	3.4	30
1069	Viscous constraints on microorganism approachÂand interaction. Journal of Fluid Mechanics, 2018, 851, 715-738.	3.4	16
1070	Deposition of sticky spheres in channel flow: Modeling of surface coverage evolution requires accurate sphere-sphere collision hydrodynamics. Journal of Colloid and Interface Science, 2018, 530, 383-393.	9.4	13
1071	Suspensions of finite-size neutrally buoyant spheres in turbulent duct flow. Journal of Fluid Mechanics, 2018, 851, 148-186.	3.4	22

#	Article	IF	CITATIONS
1072	Locomotion inside a surfactant-laden drop at low surface Péclet numbers. Journal of Fluid Mechanics, 2018, 851, 187-230.	3.4	15
1073	Time resolution effect on the apparent particle dynamics confined in a nanochannel evaluated by the single particle tracking subject to Brownian motion. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	4
1074	Self-organization of active particles by quorum sensing rules. Nature Communications, 2018, 9, 3232.	12.8	109
1075	Signatures of van der Waals and Electrostatic Forces in the Deposition of Nanoparticle Assemblies. Journal of Physical Chemistry Letters, 2018, 9, 5226-5232.	4.6	21
1076	Generalized Model for Nano- and Submicron Particle Formation in Liquid Phase, Incorporating Reaction Kinetics and Hydrodynamic Interaction: Experiment, Modeling, and Simulation. Journal of Physical Chemistry C, 2018, 122, 20489-20499.	3.1	10
1077	A collision model for DNS with ellipsoidal particles in viscous fluid. International Journal of Multiphase Flow, 2019, 120, 103087.	3.4	28
1078	Numerical and experimental study of the motion of a sphere in a communicating vessel system subject to sloshing. Physics of Fluids, 2019, 31, .	4.0	6
1079	Microwheels on microroads: Enhanced translation on topographic surfaces. Science Robotics, 2019, 4, .	17.6	41
1080	A massively-parallel, unstructured overset method to simulate moving bodies in turbulent flows. Journal of Computational Physics, 2019, 397, 108790.	3.8	27
1081	Non-uniform stochastic dynamics of nanoparticle clusters at a solid–liquid interface induced by laser trapping. Japanese Journal of Applied Physics, 2019, 58, SDDK07.	1.5	9
1082	Before the breach: Interactions between colloidal particles and liquid interfaces at nanoscale separations. Physical Review E, 2019, 100, 042605.	2.1	9
1083	Flow-induced oscillations of circular cylinder in a narrow channel. Aerospace Science and Technology, 2019, 93, 105348.	4.8	5
1084	Dynamics and wall collision of inertial particles in a solid–liquid turbulent channel flow. Journal of Fluid Mechanics, 2019, 881, 872-905.	3.4	18
1085	Particle accumulation in highâ€Prandtlâ€number liquid bridges. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900058.	0.2	9
1086	A simple statistical-mechanical interpretation of Onsager reciprocal relations and Derjaguin theory of thermo-osmosis. European Physical Journal E, 2019, 42, 136.	1.6	6
1087	Transition to bound states for bacteria swimming near surfaces. Physical Review E, 2019, 100, 043117.	2.1	13
1088	Time-scale dependent Brownian motion of nanoparticles in clusters at a solid-liquid interface by laser trapping. Journal of Physics: Conference Series, 2019, 1220, 012054.	0.4	1
1089	Deposition kinetics of bi- and tridisperse colloidal suspensions in microchannels under the van der Waals regime. Soft Matter, 2019, 15, 7438-7447.	2.7	8

#	ARTICLE	IF	CITATIONS
1090	Hard-wall entropic effect accelerates detachment of adsorbed polymer chains. Physical Review E, 2019, 100, 032501.	2.1	2
1091	The hydrodynamic lift of a slender, neutrally buoyant fibre in a wall-bounded shear flow at small Reynolds number. Journal of Fluid Mechanics, 2019, 879, 121-146.	3.4	5
1092	Measurement of Van der Waals force using oscillating optical tweezers. Applied Physics Letters, 2019, 115, .	3.3	19
1093	Characterization of aqueous cellulose nanofiber dispersions from microscopy movie data of Brownian particles by trajectory analysis. Nanoscale Advances, 2019, 1, 421-429.	4.6	14
1094	A linearised model for calculating inertial forces on a particle in the presence of a permeate flow. Journal of Fluid Mechanics, 2019, 861, 253-274.	3.4	3
1095	Packing dynamics of spherical and nonconvex grains sedimenting at low Stokes number. Physical Review E, 2019, 99, 012907.	2.1	3
1096	How Slippery are SLIPS? Measuring Effective Slip on Lubricated Surfaces with Colloidal Probe Atmoc Force Microscopy. Langmuir, 2019, 35, 2976-2982.	3.5	34
1097	On the relation of added mass and added resistance due to wall interference. Ship Technology Research, 2019, 66, 117-134.	2.5	0
1098	Measurements of Particle–Surface Interactions in Both Equilibrium and Nonequilibrium Systems. Langmuir, 2019, 35, 8910-8920.	3.5	4
1099	Surface Interactions of Gold Nanoparticles Optically Trapped against an Interface. Journal of Physical Chemistry C, 2019, 123, 16406-16414.	3.1	16
1100	Surface deformation and rebound for normal single-particle collisions in a surrounding fluid. Journal of Fluid Mechanics, 2019, 871, 1044-1066.	3.4	10
1101	Acoustic dipole and monopole effects in solid particle interaction dynamics during acoustophoresis. Journal of the Acoustical Society of America, 2019, 145, 3311-3319.	1.1	15
1102	Force on a spherical particle oscillating in a viscous fluid perpendicular to an impermeable planar wall. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	4
1103	Analysis of micro and nano particle erosion by analytical, numerical and experimental methods: A review. Journal of Mechanical Science and Technology, 2019, 33, 2319-2329.	1.5	7
1104	Tunable and switchable soft adsorption of polymer-coated microparticles on a flat substrate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 575, 199-204.	4.7	2
1105	Nanofluid Dynamics of Flexible Polymeric Nanoparticles Under Wall Confinement. Journal of Heat Transfer, 2019, 141, 0524011-524016.	2.1	5
1106	Opportunities for Particles and Particle Suspensions to Experience Enhanced Transport in Porous Media: A Review. Transport in Porous Media, 2019, 128, 459-509.	2.6	4
1107	Numerical prediction of colloidal phase separation by direct computation of Navier–Stokes equation. Npj Computational Materials, 2019, 5, .	8.7	21

#	Article	IF	CITATIONS
1108	Autophoresis of two adsorbing/desorbing particles in an electrolyte solution. Journal of Fluid Mechanics, 2019, 865, 440-459.	3.4	8
1109	Direct numerical simulation of viscous incompressible flow with spherical particles in the flat channel. Journal of Physics: Conference Series, 2019, 1404, 012017.	0.4	0
1110	Effects of Hydrodynamic Interactions on the Near-Surface Diffusion of Spheroidal Molecules. ACS Omega, 2019, 4, 17016-17030.	3.5	7
1111	Regular Assembly of Polymer Nanoparticles by Optical Trapping Enhanced with a Random Array of Si Needles for Reconfigurable Photonic Crystals in Liquid. ACS Applied Nano Materials, 2019, 2, 7637-7643.	5.0	14
1112	An Eulerian-Lagrangian CFD study of a particle settling in an orthogonal shear flow of a shear-thinning, mildly viscoelastic fluid. Journal of Non-Newtonian Fluid Mechanics, 2019, 263, 77-103.	2.4	4
1113	A generic mechanism for finite-size coherent particle structures. International Journal of Multiphase Flow, 2019, 111, 42-52.	3.4	19
1114	Dynamics of underwater gas bubbles impact on a ratchet with gradient inclination. Applied Surface Science, 2019, 475, 598-605.	6.1	4
1115	Accumulation of heavy particles in circular bounded vortex flows induced by two small rotating cylinders. International Journal of Multiphase Flow, 2019, 113, 71-88.	3.4	7
1116	Settling of finite-size particles in turbulence at different volume fractions. Acta Mechanica, 2019, 230, 413-430.	2.1	15
1117	Recent advances in modeling and simulation of nanofluid flows-Part I: Fundamentals and theory. Physics Reports, 2019, 790, 1-48.	25.6	670
1118	Viscous growth and rebound of a bubble near a rigid surface. Journal of Fluid Mechanics, 2019, 860, 172-199.	3.4	6
1119	Rectilinear oscillations of two spherical particles embedded in an unbounded viscous fluid. Microsystem Technologies, 2019, 25, 39-49.	2.0	12
1120	Deposition of nanoparticles from a volatile carrier liquid. Journal of Colloid and Interface Science, 2020, 562, 102-111.	9.4	10
1121	Lifting off a solid sphere from a flat bottom by laminar fluid flow. AICHE Journal, 2020, 66, e16886.	3.6	2
1122	Drag force on spherical particle moving near a plane wall in highly rarefied gas. Journal of Fluid Mechanics, 2020, 883, .	3.4	5
1123	Fluid-Mediated Force on a Particle Due to an Oscillating Plate and Its Effect on Deposition Measurements by a Quartz Crystal Microbalance. Physical Review Letters, 2020, 125, 144501.	7.8	5
1124	Motion of micro- and nano- particles interacting with a fluid interface. Advances in Colloid and Interface Science, 2020, 284, 102262.	14.7	19
1125	Hindered Diffusion near Fluid–Solid Interfaces: Comparison of Molecular Dynamics to Continuum Hydrodynamics. Langmuir, 2020, 36, 9412-9423.	3.5	12

#	ARTICLE	IF	CITATIONS
1126	Hydrodynamic drag force on a sphere approaching a liquid-liquid interface. Heliyon, 2020, 6, e04089.	3.2	1
1127	Effect of density of a sphere launched vertically in water on the water-surface behavior and sphere motion in air. Physics of Fluids, 2020, 32, .	4.0	10
1128	Effects of the collision model in interface-resolved simulations of particle-laden turbulent channel flows. Physics of Fluids, 2020, 32, .	4.0	19
1129	Effect of Deformation on Droplet Contact Charge Electrophoresis. Langmuir, 2020, 36, 10379-10386.	3.5	3
1130	Calibrated force measurement in atomic force microscopy using the transient fluctuation theorem. Europhysics Letters, 2020, 131, 10008.	2.0	0
1131	Particle-size-dependent acoustophoretic motion and depletion of micro- and nano-particles at long timescales. Physical Review E, 2020, 102, 013108.	2.1	22
1132	A benchmark for particle-laden turbulent duct flow: A joint computational and experimental study. International Journal of Multiphase Flow, 2020, 132, 103410.	3.4	18
1133	A correction scheme for wall-bounded two-way coupled point-particle simulations. Journal of Computational Physics, 2020, 420, 109711.	3.8	15
1134	Space-Time Inversion of Stochastic Dynamics. Symmetry, 2020, 12, 839.	2.2	0
1135	Probability of Immobilization on Host Cell Surface Regulates Viral Infectivity. Physical Review Letters, 2020, 125, 128101.	7.8	1
1136	Review about PD and breakdown induced by conductive particles in an insulating liquid. High Voltage, 2020, 5, 287-297.	4.7	17
1137	Sedimentation of finite-size particles in quiescent wall-bounded shear-thinning and Newtonian fluids. International Journal of Multiphase Flow, 2020, 129, 103291.	3.4	8
1138	Investigation for Synergies of Ionic Strength and Flow Velocity on Colloidal-Sized Microplastic Transport and Deposition in Porous Media Using the Colloidal–AFM Probe. Langmuir, 2020, 36, 6292-6303.	3.5	36
1139	Large Effective Slip on Lubricated Surfaces Measured with Colloidal Probe AFM. Langmuir, 2020, 36, 6033-6040.	3.5	17
1140	Forces and torques on a sphere moving near a dihedral corner in creeping flow. European Journal of Mechanics, B/Fluids, 2020, 84, 110-121.	2.5	17
1141	Collector efficiency for hydrosol deep-bed filtration of non-Brownian particles at low and finite Reynolds numbers. Particuology, 2020, 53, 124-133.	3.6	6
1142	Structure and dynamics of hydrodynamically interacting finite-size Brownian particles in a spherical cavity: Spheres and cylinders. Journal of Chemical Physics, 2020, 152, 204109.	3.0	8
1143	The singular hydrodynamic interactions between two spheres in Stokes flow. Physics of Fluids, 2020, 32, .	4.0	11

#	Article	IF	Citations
1144	VOF-DEM study of solid distribution characteristics in slurry Taylor flow-based multiphase microreactors. Chemical Engineering Journal, 2020, 396, 124738.	12.7	40
1145	Additive rheology of complex granular flows. Nature Communications, 2020, 11, 1476.	12.8	59
1146	Binding of a Brownian nanoparticle to a thermally fluctuating membrane surface. Physical Review E, 2020, 101, 032604.	2.1	3
1147	Control of bubble ζ-potentials to improve the kinetics of bubble-particle interactions. Minerals Engineering, 2020, 151, 106295.	4.3	9
1148	Influence of non-hydrodynamic forces on the elastic response of an ultra-thin soft coating under fluid-mediated dynamic loading. Physics of Fluids, 2020, 32, .	4.0	13
1149	Experimental and Modelling Investigation of Re-Adhesion Mechanism of Detached Nanoparticles to Wafer Surface in Spin Rinse Process. ECS Journal of Solid State Science and Technology, 2020, 9, 064001.	1.8	5
1150	Colloidal particle deposition on microchannel walls, for attractive and repulsive surface potentials. Physical Chemistry Chemical Physics, 2020, 22, 17236-17246.	2.8	3
1151	Electrokinetically enhanced cross-stream particle migration in viscoelastic flows. Journal of Fluid Mechanics, 2020, 898, .	3.4	12
1152	Statistical Tests for Force Inference in Heterogeneous Environments. Scientific Reports, 2020, 10, 3783.	3.3	9
1153	Computational inertial microfluidics: a review. Lab on A Chip, 2020, 20, 1023-1048.	6.0	121
1154	Trajectories, diffusion, and interactions of single ceria particles on a glass surface observed by evanescent wave microscopy. Journal of Materials Research, 2020, 35, 321-331.	2.6	8
1155	Super-Resolution Imaging in Fluid Mechanics Using New Illumination Approaches. Annual Review of Fluid Mechanics, 2020, 52, 369-393.	25.0	7
1156	Near-wall hydrodynamic slip triggers swimming state transition of micro-organisms. Journal of Fluid Mechanics, 2020, 894, .	3.4	18
1157	Wall Effects on Hydrodynamic Drag and the Corresponding Accuracy of Charge Measurement in Droplet Contact Charge Electrophoresis. Langmuir, 2020, 36, 4785-4794.	3.5	2
1158	Exact Phoretic Interaction of Two Chemically Active Particles. Physical Review Letters, 2020, 124, 168003.	7.8	33
1159	Analysis and development of novel data-driven drag models based on direct numerical simulations of fluidized beds. Chemical Engineering Science, 2021, 231, 116245.	3.8	27
1160	Assessment of hindered diffusion in arbitrary geometries using a multiphase DNS framework. Chemical Engineering Science, 2021, 230, 116074.	3.8	2
1161	Bluff Bodies and Wake–Wall Interactions. Annual Review of Fluid Mechanics, 2021, 53, 347-376.	25.0	16

#	Article	IF	Citations
1162	Attractors for the motion of a finite-size particle in a two-sided lid-driven cavity. Journal of Fluid Mechanics, 2021, 906, .	3.4	16
1163	On the influence of gravity on particle accumulation structures in high aspect-ratio liquid bridges. Journal of Fluid Mechanics, 2021, 908, .	3.4	14
1164	Programmable topotaxis of magnetic rollers in time-varying fields. Soft Matter, 2021, 17, 1538-1547.	2.7	9
1165	A fictitious domain method with distributed Lagrange multipliers on adaptive quad/octrees for the direct numerical simulation of particle-laden flows. Journal of Computational Physics, 2021, 430, 109954.	3.8	19
1166	The impact of porous walls on the rheology of suspensions. Chemical Engineering Science, 2021, 230, 116178.	3.8	10
1167	Avidity and surface mobility in multivalent ligand–receptor binding. Nanoscale, 2021, 13, 12602-12612.	5.6	17
1168	Resolved CFD–DEM coupling simulation using Volume Penalisation method. Advanced Powder Technology, 2021, 32, 225-236.	4.1	20
1169	Levitation conditions for condensing droplets over heated liquid surfaces. Soft Matter, 2021, 17, 4623-4631.	2.7	14
1170	A simple model for viscoelastic crack propagation. European Physical Journal E, 2021, 44, 3.	1.6	13
1171	Fundamentals of integrated ferrohydrodynamic cell separation in circulating tumor cell isolation. Lab on A Chip, 2021, 21, 1706-1723.	6.0	15
1172	A pair of particles in inertial microfluidics: effect of shape, softness, and position. Soft Matter, 2021, 17, 4804-4817.	2.7	24
1173	On the effect of morphology and particle-wall interaction on colloidal near-wall dynamics. Soft Matter, 2021, 17, 10301-10311.	2.7	2
1174	Coherent Particle Structures in High-Prandtl-Number Liquid Bridges. Microgravity Science and Technology, 2021, 33, 1.	1.4	5
1175	Effect of surfactant on the settling of a drop towards a wall. Journal of Fluid Mechanics, 2021, 912, .	3.4	9
1176	Biomechanical Characterization of Endothelial Cells Exposed to Shear Stress Using Acoustic Force Spectroscopy. Frontiers in Bioengineering and Biotechnology, 2021, 9, 612151.	4.1	17
1177	Parallel, linear, and subnanometric 3D tracking of microparticles with Stereo Darkfield Interferometry. Science Advances, 2021, 7, .	10.3	14
1178	Particle Coherent Structures in Confined Oscillatory Switching Centrifugation. Crystals, 2021, 11, 183.	2.2	2
1179	Lift forces on three-dimensional elastic and viscoelastic lubricated contacts. Physical Review Fluids, 2021, 6, .	2.5	14

#	Article	IF	CITATIONS
1180	On the collision of a rigid sphere with a deformable membrane in a viscous fluid. Journal of Fluid Mechanics, $2021,914,$	3.4	4
1181	The interaction of a particle and a polymer brush coating a permeable surface. Journal of Fluid Mechanics, 2021, 913, .	3.4	3
1182	Derjaguin-Landau-Verwey-Overbeek energy landscape of a Janus particle with a nonuniform cap. Physical Review E, 2021, 103, 032610.	2.1	1
1183	Non-equilibrium properties of an active nanoparticle in a harmonic potential. Nature Communications, 2021, 12, 1902.	12.8	15
1184	Falling balls in a viscous fluid with contact: Comparing numerical simulations with experimental data. Physics of Fluids, 2021, 33, .	4.0	17
1185	Near-wall forces on a neutrally buoyant spherical particle in an axisymmetric stagnation-point flow. Journal of Fluid Mechanics, 2021, 914, .	3.4	4
1186	Motion Enhancement of Spherical Surface Walkers with Microstructures. Advanced Intelligent Systems, 2021, 3, 2000226.	6.1	5
1187	A procedure to estimate cutoff wall transport properties from monitoring wells. International Journal for Numerical and Analytical Methods in Geomechanics, 2021, 45, 1282-1299.	3.3	6
1188	Brownian Dynamics Simulations of Proteins in the Presence of Surfaces: Long-Range Electrostatics and Mean-Field Hydrodynamics. Journal of Chemical Theory and Computation, 2021, 17, 3510-3524.	5.3	7
1189	Inferring non-equilibrium interactions from tracer response near confined active Janus particles. Science Advances, 2021, 7, .	10.3	22
1190	Brownian motion of a charged colloid in restricted confinement. Physical Review E, 2021, 103, 042607.	2.1	5
1191	Recent advances on nanofluids for low to medium temperature solar collectors: energy, exergy, economic analysis and environmental impact. Progress in Energy and Combustion Science, 2021, 84, 100898.	31.2	166
1192	Levitation of evaporating microscale droplets over solid surfaces. Physical Review Fluids, 2021, 6, .	2.5	9
1193	Drying path dependence in microrheological characteristics of cellulose nanofiber dispersion revealed by single particle tracking. Journal Physics D: Applied Physics, 2021, 54, 295302.	2.8	6
1194	Settling of spherical particles in the transitional regime. International Journal of Multiphase Flow, 2021, 138, 103589.	3.4	9
1195	Time dependence of advection-diffusion coupling for nanoparticle ensembles. Physical Review Fluids, 2021, 6, .	2.5	9
1196	An Eulerian Single-Phase Transport Model for Solid Fission Products in the Molten Salt Fast Reactor: Development of an Analytical Solution for Verification Purposes. Frontiers in Energy Research, 2021, 9, .	2.3	5
1197	Shear-driven rolling of DNA-adhesive microspheres. Biophysical Journal, 2021, 120, 2102-2111.	0.5	3

#	Article	IF	CITATIONS
1198	Recent advances on the fundamental physical phenomena behind stability, dynamic motion, thermophysical properties, heat transport, applications, and challenges of nanofluids. Physics Reports, 2022, 946, 1-94.	25.6	179
1199	Stochastic inference of surface-induced effects using Brownian motion. Physical Review Research, 2021, 3, .	3.6	4
1200	The Curvature Effect on the Diffusion of Single Brownian Squares on a Cylindrical Surface in the Presence of Depletion Attractions. Langmuir, 2021, 37, 9264-9268.	3.5	2
1201	Generalization of elastohydrodynamic interactions between a rigid sphere and a nearby soft wall. Journal of Fluid Mechanics, 2021, 923, .	3.4	6
1202	Mathematical Modelling of a Nanoparticle Motion in a Membrane Pore under Action of Molecular Forces. Membranes and Membrane Technologies, 2021, 3, 245-253.	1.9	0
1203	Thermocapillary effects on eccentric compound drops in Poiseuille flows. Physical Review Fluids, 2021, 6, .	2.5	9
1204	Rotational and translational diffusion of colloidal ellipsoids in bulk and at surfaces. Colloid and Polymer Science, 2021, 299, 1595-1603.	2.1	3
1205	Partial structural order of gel-forming material detected as multimodal subdiffusion by logarithmic measure. Journal of Physics Condensed Matter, 2021, 33, 455101.	1.8	2
1206	Nearly touching spheres in a viscoelastic fluid. Physics of Fluids, 2021, 33, .	4.0	4
1207	Analysis of the particles-induced turbulence in confined gas-solid fluidized beds by PR-DNS. International Journal of Multiphase Flow, 2021, 141, 103655.	3.4	4
1208	A disturbance corrected point-particle approach for two-way coupled particle-laden flows on arbitrary shaped grids. Journal of Computational Physics, 2021, 439, 110381.	3.8	2
1209	Finite-size coherent particle structures in high-Prandtl-number liquid bridges. Physical Review Fluids, 2021, 6, .	2.5	7
1210	Motion of a slip spherical particle near a planar micropolar-viscous interface. European Journal of Mechanics, B/Fluids, 2021, 89, 274-288.	2.5	13
1211	Stokesian motion of a spherical particle near a right corner made by tangentially moving walls. Journal of Fluid Mechanics, 2021, 927, .	3.4	2
1212	Regimes of heat transfer in finite-size particle suspensions. International Journal of Heat and Mass Transfer, 2021, 177, 121514.	4.8	14
1213	A hydrodynamic basis for off-axis Brownian diffusion under intermediate confinements in micro-channels. International Journal of Multiphase Flow, 2021, 143, 103772.	3.4	2
1214	Evaporation induced self-assembly of rough colloids: A multiscale simulation study. International Journal of Heat and Mass Transfer, 2021, 179, 121681.	4.8	4
1215	Numerical investigation of the density sorting of grains using water jigging. Powder Technology, 2021, 393, 705-721.	4.2	8

#	Article	IF	CITATIONS
1216	Sedimentation effects on particle position and inertial deposition in $90\hat{A}^{\circ}$ circular bends. Powder Technology, 2021, 393, 722-733.	4.2	3
1217	Influence of the surface roughness on the collision behavior of fine particles in ambient fluids. Powder Technology, 2021, 392, 58-68.	4.2	19
1218	Influence of process and formulation parameters on the preparation of solid lipid nanoparticles by dual centrifugation. International Journal of Pharmaceutics: X, 2021, 3, 100085.	1.6	9
1219	Multi-oscillation microrheology <i>via</i> acoustic force spectroscopy enables frequency-dependent measurements on endothelial cells at high-throughput. Lab on A Chip, 2021, 21, 1929-1947.	6.0	22
1220	Spatio-temporally controlled suppression of the coffee-ring phenomenon by cellulose nanofibers. Soft Matter, 2021, 17, 4826-4833.	2.7	6
1221	Effective Media Theory Using Nearest Neighbor Pair Distributions. The IMA Volumes in Mathematics and Its Applications, 1998, , 23-53.	0.5	1
1222	Diffusion of Colloidal Particles. , 1987, , 38-57.		1
1223	Nanoparticles-Emerging Contaminants. Nanostructure Science and Technology, 2015, , 855-878.	0.1	11
1224	Numerical Simulations of Active Brownian Particles. Soft and Biological Matter, 2019, , 211-238.	0.3	6
1225	Topics in the Mathematical Theory of Interactions of Incompressible Viscous Fluid with Rigid Bodies. Advances in Mathematical Fluid Mechanics, 2014, , 257-320.	0.1	1
1226	A Lagrangian–Lagrangian Framework for the Simulation of Rigid and Deformable Bodies in Fluid. Computational Methods in Applied Sciences (Springer), 2014, , 33-52.	0.3	4
1227	L3 Two-Phase Gas-Solid Flow. , 2009, , 1181-1238.		4
1229	Rheologische Betriebsmeßverfahren. , 1980, , 431-511.		5
1230	L3.1 Bewegung fester Partikel in Gasen und Flýssigkeiten. Springer Reference Technik, 2019, , 1543-1559.	0.0	2
1233	Transient Stokes Flows., 1991,, 147-171.		19
1234	The deposition of colloidal particles from a sessile drop of a volatile suspension subject to particle adsorption and coagulation. Journal of Colloid and Interface Science, 2018, 509, 195-208.	9.4	31
1235	Recoiling DNA molecule: simulation and experiment. Physica A: Statistical Mechanics and Its Applications, 2005, 345, 173-184.	2.6	4
1236	Ecoulement et mise en structure de suspensions macroscopiques. Annales De Physique, 1991, 16, 155-191.	0.2	5

#	Article	IF	CITATIONS
1237	The effect of particle density in turbulent channel flow laden with finite size particles in semi-dilute conditions. Physics of Fluids, $2016$ , $28$ , .	4.0	60
1238	Space-dependent diffusion with stochastic resetting: A first-passage study. Journal of Chemical Physics, 2020, 153, 234904.	3.0	31
1239	Interfacial viscoelasticity and jamming of colloidal particles at fluid–fluid interfaces: a review. Reports on Progress in Physics, 2020, 83, 126601.	20.1	31
1240	Bacterial deposition in a parallel plate and a stagnation point flow chamber: microbial adhesion mechanisms depend on the mass transport conditions. Microbiology (United Kingdom), 2002, 148, 597-603.	1.8	53
1242	Height distribution and orientation of colloidal dumbbells near a wall. Physical Review E, 2020, 102, 062608.	2.1	4
1243	Adhesion and detachment of a capsule in axisymmetric flow. Physical Review Fluids, 2016, 1, .	2.5	3
1244	Fast inertial particle manipulation in oscillating flows. Physical Review Fluids, 2017, 2, .	2.5	15
1245	Inertial migration in dilute and semidilute suspensions of rigid particles in laminar square duct flow. Physical Review Fluids, 2017, 2, .	2.5	22
1246	Finite-size Lagrangian coherent structures in thermocapillary liquid bridges. Physical Review Fluids, 2018, 3, .	2.5	29
1247	Inertial forces for particle manipulation near oscillating interfaces. Physical Review Fluids, 2018, 3, .	2.5	7
1248	Experiments on the low-Reynolds-number settling of a sphere through a fluid interface. Physical Review Fluids, 2019, 4, .	2.5	9
1249	Finite-size Lagrangian coherent structures in a two-sided lid-driven cavity. Physical Review Fluids, 2019, 4, .	2.5	18
1250	Buoyant finite-size particles in turbulent duct flow. Physical Review Fluids, 2019, 4, .	2.5	11
1251	Reconstructing the fluid flow by tracking of large particles. Physical Review Fluids, 2019, 4, .	2.5	2
1252	Particle motion nearby rough surfaces. Physical Review Fluids, 2020, 5, .	2.5	17
1253	Particle flows around an intruder. Physical Review Research, 2020, 2, .	3.6	3
1254	Two-Dimensional Slow Viscous Flow Past a Plate Midway between an Infinite Channel. Journal of the Physical Society of Japan, 1984, 53, 156-166.	1.6	3
1255	Determinants of Leukocyte Margination in Rectangular Microchannels. PLoS ONE, 2009, 4, e7104.	2.5	77

#	Article	IF	CITATIONS
1256	A Comparison of Methods to Measure the Magnetic Moment of Magnetotactic Bacteria through Analysis of Their Trajectories in External Magnetic Fields. PLoS ONE, 2013, 8, e82064.	2.5	38
1258	Appropriate technology in an age of renewables. BioResources, 2007, 2, 146-147.	1.0	11
1259	Permeability reduction phenomena in packed beds, fiber mats, and wet webs of paper exposed to flow of liquids and suspensions: A review. BioResources, 2009, 4, 405-451.	1.0	30
1260	Retention aid polymer interactions with cellulosic surfaces and suspensions: A review. BioResources, 2009, 4, 850-906.	1.0	80
1261	Functional morphology of diatom frustule microstructures: hydrodynamic control of Brownian particle diffusion and advection. Aquatic Microbial Ecology, 2001, 24, 287-295.	1.8	52
1262	Physical determinants of vesicle mobility and supply at a central synapse. ELife, 2016, 5, .	6.0	47
1263	建液二相æμã«ãŠã'㸋建体間ã®è¿'接相互作甓. Japanese Journal of Multiphase Flow, 2001, 15, 252-2	25 <b>0.</b> 3	0
1264	BROWNIAN DYNAMICS–I. INTERPOLATING FUNCTIONS FOR DRAG AND RESISTANCE FORCES ON A SOLID SPHERICAL AEROSOL PARTICLE MOVING NEAR A SOLID WALL. Journal of Aerosol Science, 2001, 32, 711-712.	3.8	2
1265	Druckverlust. , 2002, , 987-1178.		0
1267	Particle Sedimentation., 2006,,.		O
1268	Fine-grained sand behavior in a dam reservoir at the middle reaches of a river. , 2006, , .		0
1269	Particle Sedimentation., 2006, , 133-141.		O
1271	10.1007/s11446-008-1006-y., 2010, 53, 19.		0
1272	Spectral-Domain Low-Coherence Dynamic Light Scattering to Analyze Spatio-Nonstationary Brownian Dynamics., 2013,,.		0
1273	Stokes Flow around Rotating Axially Symmetric Pervious Body. Journal of Applied Fluid Mechanics, 2013, 6, .	0.2	0
1276	Boundary-Multipole Collocation. , 1991, , 321-352.		0
1277	The Complete Double Layer Boundary Integral Equation Method for Particles Moving Close to Boundaries., 1992,, 109-121.		0
1279	The interaction of a deformable drop with a surface. , 1995, , 257-292.		1

#	Article	IF	Citations
1282	Constrained Random Walk Models for Euro/Swiss Franc Exchange Rates: Theory and Empirics. SSRN Electronic Journal, $0, \dots$	0.4	1
1284	Microscopic Analysis of Particle-Wall Collision. Kagaku Kogaku Ronbunshu, 2015, 41, 281-284.	0.3	1
1285	Evanescent-Wave Particle Visualization in Nano- and Microchannels. , 2016, , 1139-1145.		0
1286	Measurement of Van der Waals force using optical tweezers. , 2019, , .		0
1287	Pair correlation function of charge-stabilized colloidal systems under sheared conditions. Colloid and Polymer Science, 2020, 298, 761-771.	2.1	5
1288	VISCOUS INTERACTION FORCES OF TWO PULSATING SPHERES IN A FLUID NEAR THEIR CONTACT POINT. Journal of Applied Mechanics and Technical Physics, 2020, 61, 532-538.	0.5	1
1289	3D Unsteady Simulation of Particle Sedimentation towards High Regimes., 2006,, 185-196.		0
1290	DNS of particle-laden flow over a backward facing step at a moderate Reynolds number. , 2007, , 165-177.		0
1291	About the Stokes law applicability. MatematiÄeskie Struktury I Modelirovanie, 2020, , 40-48.	0.0	1
1292	Sub-millisecond Translational and Orientational Dynamics of a Freely Moving Single Nanoprobe. Journal of Physical Chemistry B, 2021, 125, 13436-13443.	2.6	6
1293	Applicability conditions of the Stokes formula. AIMS Materials Science, 2021, 8, 809-822.	1.4	1
1294	Strong alignment of prolate ellipsoids in Taylor–Couette flow. Journal of Fluid Mechanics, 2022, 935,	3.4	6
1295	Diffusive dynamics of charged nanoparticles in convex lens-induced confinement. Soft Matter, 2022, 18, 832-840.	2.7	3
1296	Effect of photon counting shot noise on total internal reflection microscopy. Soft Matter, 2021, 18, 162-171.	2.7	4
1297	Charge convection and interfacial deformation of a compound drop in plane Poiseuille flow under an electric field. Physical Review Fluids, 2022, 7, .	2.5	6
1298	A numerical and experimental investigation of rolling and sliding motion of rotating spheres inside a cylinder. Journal of Fluid Mechanics, 2022, 935, .	3.4	3
1299	An efficient four-way coupled lattice Boltzmann – discrete element method for fully resolved simulations of particle-laden flows. Journal of Computational Physics, 2022, 453, 110942.	3.8	19
1300	An Eulerian-based immersed boundary method for particle suspensions with implicit lubrication model. Computers and Fluids, 2022, 236, 105278.	2.5	9

#	Article	IF	CITATIONS
1301	Hydrodynamics induce superdiffusive jumps of passive tracers along critical paths of random networks and colloidal gels. Soft Matter, 2022, 18, 1941-1954.	2.7	2
1302	Motion of a sphere in a viscous fluid towards a wall confined versus unconfined conditions. Granular Matter, 2022, 24, 1.	2.2	2
1303	Dynamics of Droplets Ejected over the Evaporating Water Surface. Technical Physics, 2021, 66, 1200-1207.	0.7	0
1305	The increasing added mass of a bouncing ball. European Journal of Physics, O, , .	0.6	1
1306	Dynamics of finite-size spheroids in turbulent flow: the roles of flow structures and particle boundary layers. Journal of Fluid Mechanics, 2022, 939, .	3.4	1
1307	Resistance and mobility functions for the near-contact motion of permeable particles. Journal of Fluid Mechanics, 2022, 938, .	3.4	2
1308	Effect of interfacial kinetics on the settling of a drop in a viscous medium. Physics of Fluids, 2022, 34, 042007.	4.0	3
1309	Comparison of droplet-particle interaction on a stationary and a moving particle. Chemical Engineering Science, 2022, 253, 117552.	3.8	8
1311	Brownian dynamics simulations for the narrow escape problem in the unit sphere. Physical Review E, 2021, 104, 064113.	2.1	2
1312	Anisotropic colloidal particles near boundaries. Journal of Applied Physics, 2022, 131, 150903.	2.5	2
1313	Comparison between one- and two-way coupling approaches for estimating effective transport properties of suspended particles undergoing Brownian sieving hydrodynamic chromatography. Physics of Fluids, 2022, 34, .	4.0	7
1314	Novel approaches to study helicases using magnetic tweezers. Methods in Enzymology, 2022, , 359-403.	1.0	5
1315	Slip-stick transitions of soft permeable particles near a repulsive wall. Soft Matter, 2022, , .	2.7	0
1316	Microfluidic free interface diffusion: Measurement of diffusion coefficients and evidence of interfacial-driven transport phenomena. Physics of Fluids, 2022, 34, .	4.0	6
1317	Comprehensive view of microscopic interactions between DNA-coated colloids. Nature Communications, 2022, 13, 2304.	12.8	14
1318	Dynamic stiffening of the flagellar hook. Nature Communications, 2022, 13, .	12.8	4
1319	Lateral migration of cylindrical particle in a constricted microchannel—A numerical study. Canadian Journal of Chemical Engineering, 2023, 101, 1680-1699.	1.7	4
1320	Particle radial velocity and concentration kernels estimation in isotropic grid turbulence experiments of inertialess particles at small separation distances. Journal of Fluid Mechanics, 2022, 942, .	3.4	0

#	Article	IF	Citations
1321	How Stickiness Can Speed Up Diffusion in Confined Systems. Physical Review Letters, 2022, 128, .	7.8	10
1322	Contactless rebound of elastic bodies in a viscous incompressible fluid. Journal of Fluid Mechanics, 2022, 942, .	3.4	2
1323	Darcy-Reynolds forces during intrusion into granular-fluid beds. Physical Review Fluids, 2022, 7, .	2.5	0
1324	Reconstructing the neutrally-buoyant particle flow near a singular corner. Acta Mechanica Sinica/Lixue Xuebao, 2022, 38, .	3.4	1
1325	Electroviscous drag on squeezing motion in sphere-plane geometry. Physical Review E, 2022, 105, .	2.1	3
1326	Dynamics of a microsphere inside a spherical cavity with Newtonian fluid subjected to periodic contractions. Physics of Fluids, 0, , .	4.0	0
1327	Viscoelastic levitation. Journal of Fluid Mechanics, 2022, 943, .	3.4	1
1328	Quantitative Acoustophoresis. ACS Nanoscience Au, 2022, 2, 341-354.	4.8	4
1329	Turbulent Rayleigh–Bénard convection in non-colloidal suspensions. Journal of Fluid Mechanics, 2022, 945, .	3.4	4
1330	Geometric effects induce anomalous size-dependent active transport in structured environments. Physical Review Fluids, 2022, 7, .	2.5	12
1331	INFLUENCES OF THE NEAR-WALL DRAG CORRECTION IN A LAGRANGIAN SIMULATION OF PARTICULATE TURBULENT CHANNEL FLOW. , 1999, , .		6
1332	Nanoparticle sizing by focused-beam dynamic ultrasound scattering method. Ultrasonics, 2022, 126, 106807.	3.9	7
1333	Estimating near-wall diffusion coefficients of arbitrarily shaped rigid macromolecules. Physical Review E, 2022, 106, .	2.1	2
1334	Hydrodynamically induced helical particle drift due to patterned surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	9
1335	Magnetic phase separation in microgravity. Npj Microgravity, 2022, 8, .	3.7	5
1336	Microparticle Brownian motion near an air-water interface governed by direction-dependent boundary conditions. Journal of Colloid and Interface Science, 2023, 629, 917-927.	9.4	2
1337	Image systems for regularised Stokeslets at walls and free surfaces. European Journal of Mechanics, B/Fluids, 2023, 97, 112-127.	2.5	0
1338	Optothermal Evolution of Active Colloidal Matter in a Defocused Laser Trap. ACS Photonics, 2022, 9, 3440-3449.	6.6	7

#	Article	IF	Citations
1339	Control and navigation problems for model bio-inspired microswimmers. Meccanica, 0, , .	2.0	0
1340	Numerical Study of a Confined Vesicle in Shear Flow at Finite Temperature. Mathematics, 2022, 10, 3570.	2.2	2
1341	A note on the modelling of lubrication forces in unresolved simulations. Powder Technology, 2023, 413, 118017.	4.2	7
1342	Hopping Behavior Mediates the Anomalous Confined Diffusion of Nanoparticles in Porous Hydrogels. Journal of Physical Chemistry Letters, 2022, 13, 10612-10620.	4.6	6
1343	The effect of biomolecular corona on adsorption onto and desorption from a model lipid membrane. Nanoscale, 2022, 15, 248-258.	5.6	4
1344	Interfacial Layer Breaker: A Violation of Stokes' Law in High-Speed Atomic Force Microscope Flows. Langmuir, 2023, 39, 220-226.	3.5	1
1346	Attractors for the motion of a finite-size particle in a cuboidal lid-driven cavity. Journal of Fluid Mechanics, 2023, 955, .	3.4	2
1347	Collision efficiency of cloud droplets in quiescent air considering lubrication interactions, mobility of interfaces, and noncontinuum molecular effects. Physical Review Fluids, 2023, 8, .	2.5	2
1348	Control force and inertial migration in Poiseuille flow: a computational study. Particulate Science and Technology, 2023, 41, 953-964.	2.1	1
1349	Development and evaluation of force balance based functions for dust detachment from bulk particles stressed by fluid flow. Powder Technology, 2023, 417, 118257.	4.2	5
1350	Turbulent channel flow of suspensions of neutrally buoyant particles over porous media. Journal of Fluid Mechanics, 2023, 954, .	3.4	1
1351	Nanoparticle Taylor Dispersion Near Charged Surfaces with an Open Boundary. Physical Review Letters, 2023, 130, .	7.8	4
1352	Modeling of short-range interactions between both spherical and non-spherical rigid particles. , 2023, , 217-264.		0
1353	Hydrodynamic clogging of micro-particles in planar channels under electrostatic forces. Journal of Fluid Mechanics, 2023, 960, .	3.4	2
1354	A multiple-time-step integration algorithm for particle-resolved simulation with physical collision time. International Journal of Multiphase Flow, 2023, 163, 104411.	3.4	1
1355	Bridging transport and deposition of colloidal nanoparticles on cylindrical microfibers. Powder Technology, 2023, 418, 118330.	4.2	1
1356	Modeling the resuspension of small inertial particles in turbulent flow over a fractal-like multiscale rough surface. Physical Review Fluids, 2023, 8, .	2.5	3
1357	Non-Gaussian Diffusion Near Surfaces. Physical Review Letters, 2023, 130, .	7.8	10

#	Article	IF	CITATIONS
1358	Single-Molecule Sizing through Nanocavity Confinement. Nano Letters, 2023, 23, 1629-1636.	9.1	1
1359	Dynamics of prolate spheroids in the vicinity of an air–water interface. Soft Matter, 2023, 19, 2646-2653.	2.7	O
1360	Versatile Microfluidics Separation of Colloids by Combining External Flow with Lightâ€induced Chemical Activity. Advanced Materials, 0, , .	21.0	0
1361	3-D rotation tracking from 2-D images of spherical colloids with textured surfaces. Soft Matter, 2023, 19, 3069-3079.	2.7	3
1362	Numerical simulations of confined Brownian-yet-non-Gaussian motion. European Physical Journal E, 2023, 46, .	1.6	0
1363	A Numerical Study of an Ellipsoidal Nanoparticles under High Vacuum Using the DSMC Method. Micromachines, 2023, 14, 778.	2.9	2
1364	Droplet-based microfluidic platform for viscosity measurement over extended concentration range. Lab on A Chip, 0, , .	6.0	0
1365	A hybrid immersed boundary method for dense particle-laden flows. Computers and Fluids, 2023, 259, 105892.	2.5	4
1366	Immersed boundary method for considering lubrication effects in the CFD-DEM simulations. Powder Technology, 2023, 426, 118603.	4.2	2
1367	Heat transfer, vapour diffusion and Stefan flow around levitating droplets near a heated liquid surface. Journal of Fluid Mechanics, 2023, 964, .	3.4	1
1368	Total internal reflection microscopy: a powerful tool for exploring interactions and dynamics near interfaces. Soft Matter, 2023, 19, 4611-4627.	2.7	2
1369	A force partitioning method to model spherical particles in liquid flows with low grid resolution. Powder Technology, 2023, 427, 118712.	4.2	0
1370	Translational and angular velocities statistics of inertial prolate ellipsoids in a turbulent channel flow up to <i>Re</i> <sub> <i>i,</i></sub> = 1000. Journal of Fluid Mechanics, 2023, 966, .	3.4	1
1371	Anisotropic molecular diffusion in confinement I: Transport of small particles in potential and density gradients. Journal of Colloid and Interface Science, 2023, 650, 1930-1940.	9.4	2
1372	Experimental and numerical determination of the lubrication force between a spherical particle and a micro-structured surface. Advanced Powder Technology, 2023, 34, 104173.	4.1	0
1373	Spontaneous collective transport in a heat–bath. Physica A: Statistical Mechanics and Its Applications, 2023, , 129082.	2.6	0
1374	Immersed-boundary/soft-sphere method for particle–particle-fluid interaction in a viscous flow: An OpenFOAM solver. Advanced Powder Technology, 2023, 34, 104204.	4.1	1
1375	Numerical study on turbulence modulation of finite-size particles in plane-Couette flow. Journal of Fluid Mechanics, 2023, 970, .	3.4	O

#	Article	IF	CITATIONS
1376	Investigation of the sedimentation characterization of magnetorheological fluids. Journal of Molecular Liquids, 2023, 390, 123047.	4.9	2
1377	Interactions Between Particles andÂSurfaces. Springer Series in Advanced Manufacturing, 2024, , 173-201.	0.5	0
1378	A multiscale computational framework using active learning to model complex suspension flows. Journal of Computational Physics, 2023, 493, 112481.	3.8	1
1379	Use of high frequency electrorotation to identify cytoplasmic changes in cells non-disruptively. Biomedical Microdevices, 2023, 25, .	2.8	O
1380	Fluid-Elastic Interactions near Contact at Low Reynolds Number. Annual Review of Fluid Mechanics, 2024, 56, .	25.0	1
1381	Emergence of Directional Rotation in an Optothermally Activated Colloidal System. ACS Photonics, 0,	6.6	O
1382	Numerical study of two particle migration in a stepped channel. AIP Conference Proceedings, 2023, , .	0.4	0
1383	Analysing Sources of Error in Total Internal Reflection Microscopy (TIRM) Experiments and Data Analysis. Polymers, 2023, 15, 4208.	4.5	0
1384	A Review of the Settling Law of Drill Cuttings in Drilling Fluids. Processes, 2023, 11, 3165.	2.8	1
1385	Anisotropic molecular diffusion in confinement II: A model for structurally complex particles applied to transport in thin ionic liquid films. Journal of Colloid and Interface Science, 2024, 657, 272-289.	9.4	O
1386	Lift at low Reynolds number. European Physical Journal E, 2023, 46, .	1.6	4
1387	PyFMLab: Open-source software for atomic force microscopy microrheology data analysis. Open Research Europe, 0, 3, 187.	2.0	O
1388	Slow motion of a sphere near a sinusoidal surface. Journal of Fluid Mechanics, 2023, 975, .	3.4	0
1389	Parametric Study of Colloidal Particle Confinement near a Surface in the Presence of DLVO and Structural Interactions Using Brownian Dynamic Simulations. Langmuir, 0, , .	3.5	O
1390	Drag, lift and torque correlations for axi-symmetric rod-like non-spherical particles in locally linear shear flows. International Journal of Multiphase Flow, 2024, 171, 104692.	3 <b>.</b> 4	0
1391	Diffusioosmotic dispersion of solute in a long narrow channel. Journal of Fluid Mechanics, 2023, 977,	3.4	O
1392	Unsteady drag force on an immersed sphere oscillating near a wall. Journal of Fluid Mechanics, 2023, 977, .	3.4	0
1393	First coarse grain then scale: How to estimate diffusion coefficients of confined molecules. Journal of Chemical Physics, 2023, 159, .	3.0	O

#	Article	IF	CITATIONS
1394	Lubrication dynamics of a settling plate. Journal of Fluid Mechanics, 2023, 977, .	3.4	0
1395	Hydrodynamic force on a hemispheroidal particle attached to a planar surface in linear shear flow. Powder Technology, 2024, 434, 119352.	4.2	O
1396	Preferential accumulation of finite-size particles in near-wall streaks. Journal of Fluid Mechanics, 2024, 980, .	3.4	0
1397	ItÃ-distribution from Gibbs measure and a comparison with experiment. Physica A: Statistical Mechanics and Its Applications, 2024, 637, 129599.	2.6	0
1398	Inertial migration and control force in pulsatile flow- a computational study. Indian Chemical Engineer, $0$ , , $1$ -17.	1.5	0
1399	Geometric re-meshing strategies to simulate contactless rebounds of elastic solids in fluids. Computer Methods in Applied Mechanics and Engineering, 2024, 422, 116824.	6.6	O
1400	Theoretical investigation of the free fall of a spherical particle in a viscous fluid using continuous piecewise linearization method. Kuwait Journal of Science, 2024, 51, 100211.	0.6	0
1401	From discrete to continuum description of weakly inertial bedload transport. Physical Review Fluids, 2024, 9, .	2.5	O