

Donald L Koch

List of Publications by Year in descending order

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143
papers

7,504
citations

71004

43
h-index

66518

82
g-index

143
all docs

143
docs citations

143
times ranked

5481
citing authors

#	ARTICLE	IF	CITATIONS
1	Electroconvection near an ion-selective surface with Butler-Volmer kinetics. <i>Journal of Fluid Mechanics</i> , 2022, 930, .	1.4	10
2	Collision rate of bidisperse, hydrodynamically interacting spheres settling in a turbulent flow. <i>Journal of Fluid Mechanics</i> , 2021, 912, .	1.4	11
3	Suppression of electroconvective and morphological instabilities by an imposed cross flow of the electrolyte. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	8
4	Discrete fracture network model analysis of the effects of fluid transport on the morphology of a cluster of activated fractures. <i>Physical Review E</i> , 2021, 103, 053112.	0.8	0
5	Non-continuum tangential lubrication gas flow between two spheres. <i>Journal of Fluid Mechanics</i> , 2021, 920, .	1.4	6
6	Collision rate of bidisperse spheres settling in a compressional non-continuum gas flow. <i>Journal of Fluid Mechanics</i> , 2021, 910, .	1.4	10
7	Electrophoresis in dilute polymer solutions. <i>Journal of Fluid Mechanics</i> , 2020, 884, .	1.4	17
8	Predictive Inverse Model for Advective Heat Transfer in a Short-Circuited Fracture: Dimensional Analysis, Machine Learning, and Field Demonstration. <i>Water Resources Research</i> , 2020, 56, e2020WR027065.	1.7	13
9	Hydroshearing poorly connected preexisting fractures in the presence of stress anisotropy as a random percolation process. <i>Physical Review Research</i> , 2020, 2, .	1.3	0
10	The rapid distortion of two-way coupled particle-laden turbulence. <i>Journal of Fluid Mechanics</i> , 2019, 877, 82-104.	1.4	9
11	Inertial torques and a symmetry breaking orientational transition in the sedimentation of slender fibres. <i>Journal of Fluid Mechanics</i> , 2019, 875, 576-596.	1.4	21
12	The combined hydrodynamic and thermodynamic effects of immobilized proteins on the diffusion of mobile transmembrane proteins. <i>Journal of Fluid Mechanics</i> , 2019, 877, 648-681.	1.4	4
13	Slender body theory for particles with non-circular cross-sections with application to particle dynamics in shear flows. <i>Journal of Fluid Mechanics</i> , 2019, 877, 1098-1133.	1.4	10
14	The hydrodynamic lift of a slender, neutrally buoyant fibre in a wall-bounded shear flow at small Reynolds number. <i>Journal of Fluid Mechanics</i> , 2019, 879, 121-146.	1.4	5
15	Clustering of rapidly settling, low-inertia particle pairs in isotropic turbulence. Part 1. Drift and diffusion flux closures. <i>Journal of Fluid Mechanics</i> , 2019, 871, 450-476.	1.4	8
16	Clustering of rapidly settling, low-inertia particle pairs in isotropic turbulence. Part 2. Comparison of theory and DNS. <i>Journal of Fluid Mechanics</i> , 2019, 871, 477-488.	1.4	8
17	Electroconvection in a Viscoelastic Electrolyte. <i>Physical Review Letters</i> , 2019, 122, 124501.	2.9	48
18	Equilibrium Modeling of the Mechanics and Structure of the Cancer Glycocalyx. <i>Biophysical Journal</i> , 2019, 116, 694-708.	0.2	27

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19	Clustering in Euler–Euler and Euler–Lagrange simulations of unbounded homogeneous particle-laden shear. <i>Journal of Fluid Mechanics</i> , 2019, 859, 174-203.	1.4	25
20	Modeling the dynamics of remobilized CO ₂ within the geologic subsurface. <i>International Journal of Greenhouse Gas Control</i> , 2018, 70, 128-145.	2.3	3
21	Controlling rotation and migration of rings in a simple shear flow through geometric modifications. <i>Journal of Fluid Mechanics</i> , 2018, 840, 379-407.	1.4	6
22	Heat/mass transfer from a neutrally buoyant sphere by mixed natural and forced convection in a simple shear flow. <i>AIChE Journal</i> , 2018, 64, 2816-2827.	1.8	4
23	Electroconvection and Morphological Instabilities in Potentiostatic Electrodeposition across Liquid Electrolytes with Polymer Additives. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3697-A3713.	1.3	24
24	The effects of fluid transport on the creation of a dense cluster of activated fractures in a porous medium. <i>Journal of Fluid Mechanics</i> , 2018, 847, 286-328.	1.4	4
25	Stochastic theory and direct numerical simulations of the relative motion of high-inertia particle pairs in isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2017, 813, 205-249.	1.4	11
26	An algorithm for solving the Navier–Stokes equations with shear-periodic boundary conditions and its application to homogeneously sheared turbulence. <i>Journal of Fluid Mechanics</i> , 2017, 833, 687-716.	1.4	16
27	Pseudo-turbulent heat flux and average gas–phase conduction during gas–solid heat transfer: flow past random fixed particle assemblies. <i>Journal of Fluid Mechanics</i> , 2016, 798, 299-349.	1.4	45
28	Analysis of a time dependent injection strategy to accelerate the residual trapping of sequestered CO ₂ in the geologic subsurface. <i>International Journal of Greenhouse Gas Control</i> , 2016, 44, 185-198.	2.3	8
29	An analytical thermohydraulic model for discretely fractured geothermal reservoirs. <i>Water Resources Research</i> , 2016, 52, 6792-6817.	1.7	16
30	Stabilizing electrodeposition in elastic solid electrolytes containing immobilized anions. <i>Science Advances</i> , 2016, 2, e1600320.	4.7	228
31	Multiscale Simulation and Modeling of Multilayer Heteroepitaxial Growth of C ₆₀ on Pentacene. <i>Langmuir</i> , 2016, 32, 3045-3056.	1.6	13
32	Stress in a dilute suspension of spheres in a dilute polymer solution subject to simple shear flow at finite Deborah numbers. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	22
33	Slender-body theory for transient heat conduction: theoretical basis, numerical implementation and case studies. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150494.	1.0	3
34	The average stress in a suspension of cube-shaped magnetic particles subject to shear and magnetic fields. <i>Physics of Fluids</i> , 2015, 27, .	1.6	4
35	Brownian Dynamics of a Suspension of Particles with Constrained Voronoi Cell Volumes. <i>Langmuir</i> , 2015, 31, 6829-6841.	1.6	8
36	Emergence of Upstream Swimming via a Hydrodynamic Transition. <i>Physical Review Letters</i> , 2015, 114, 108102.	2.9	91

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37	The effect of shear flow on the rotational diffusion of a single axisymmetric particle. <i>Journal of Fluid Mechanics</i> , 2015, 772, 42-79.	1.4	21
38	Preferential concentration driven instability of sheared gas–solid suspensions. <i>Journal of Fluid Mechanics</i> , 2015, 770, 85-123.	1.4	13
39	Hyperdiffusive Dynamics in Newtonian Nanoparticle Fluids. <i>ACS Macro Letters</i> , 2015, 4, 1149-1153.	2.3	27
40	Rotational motion of a thin axisymmetric disk in a low Reynolds number linear flow. <i>Physics of Fluids</i> , 2014, 26, .	1.6	15
41	Bacterial collective motion near the contact line of an evaporating sessile drop. <i>Physics of Fluids</i> , 2014, 26, .	1.6	22
42	A stochastic model for the relative motion of high Stokes number particles in isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2014, 756, 870-902.	1.4	22
43	Stability Analysis of Electrodeposition across a Structured Electrolyte with Immobilized Anions. <i>Journal of the Electrochemical Society</i> , 2014, 161, A847-A855.	1.3	198
44	Hydrodynamic tracer diffusion in suspensions of swimming bacteria. <i>Physics of Fluids</i> , 2014, 26, .	1.6	96
45	Structure factor of blends of solvent-free nanoparticle–organic hybrid materials: density-functional theory and small angle X-ray scattering. <i>Soft Matter</i> , 2014, 10, 9120-9135.	1.2	28
46	Instability of an inhomogeneous bacterial suspension subjected to a chemo-attractant gradient. <i>Journal of Fluid Mechanics</i> , 2014, 741, 619-657.	1.4	13
47	Intrinsic viscosity of a suspension of cubes. <i>Physical Review E</i> , 2013, 88, 052302.	0.8	12
48	Rigid ring-shaped particles that align in simple shear flow. <i>Journal of Fluid Mechanics</i> , 2013, 722, 121-158.	1.4	17
49	Predicting the Disorder–Order Transition of Solvent-Free Nanoparticle–Organic Hybrid Materials. <i>Langmuir</i> , 2013, 29, 8197-8202.	1.6	12
50	Dynamics of solvent-free grafted nanoparticles. <i>Journal of Chemical Physics</i> , 2012, 136, 044902.	1.2	49
51	Flow of power-law fluids in fixed beds of cylinders or spheres. <i>Journal of Fluid Mechanics</i> , 2012, 713, 491-527.	1.4	8
52	Collective Hydrodynamics of Swimming Microorganisms: Living Fluids. <i>Annual Review of Fluid Mechanics</i> , 2011, 43, 637-659.	10.8	336
53	Structure of solvent-free grafted nanoparticles: Molecular dynamics and density-functional theory. <i>Journal of Chemical Physics</i> , 2011, 135, 114901.	1.2	49
54	The influence of the inertially dominated outer region on the rheology of a dilute dispersion of low-Reynolds-number drops or rigid particles. <i>Journal of Fluid Mechanics</i> , 2011, 674, 307-358.	1.4	25

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55	Mass/heat transfer from a neutrally buoyant sphere in simple shear flow at finite Reynolds and Peclet numbers. <i>AIChE Journal</i> , 2011, 57, 1419-1433.	1.8	21
56	Noncontinuum drag force on a nanowire vibrating normal to a wall: Simulations and theory. <i>Physics of Fluids</i> , 2010, 22, 103101.	1.6	16
57	Structure of Solvent-Free Nanoparticle-Organic Hybrid Materials. <i>Langmuir</i> , 2010, 26, 16801-16811.	1.6	68
58	An efficient direct simulation Monte Carlo method for low Mach number noncontinuum gas flows based on the Bhatnagar-Gross-Krook model. <i>Physics of Fluids</i> , 2009, 21, 033103.	1.6	15
59	Structure and dynamics of dilute suspensions of finite-Reynolds-number settling fibers. <i>Physics of Fluids</i> , 2009, 21, .	1.6	27
60	Hydrodynamic diffusion and mass transfer across a sheared suspension of neutrally buoyant spheres. <i>Physics of Fluids</i> , 2009, 21, .	1.6	18
61	Dense, bounded shear flows of agitated solid spheres in a gas at intermediate Stokes and finite Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 2009, 618, 181-208.	1.4	5
62	Clusters of sedimenting high-Reynolds-number particles. <i>Journal of Fluid Mechanics</i> , 2009, 625, 371-385.	1.4	21
63	Velocity fluctuations and hydrodynamic diffusion in finite-Reynolds-number sedimenting suspensions. <i>Physics of Fluids</i> , 2008, 20, .	1.6	36
64	Evolution of clusters of sedimenting low-Reynolds-number particles with Oseen interactions. <i>Journal of Fluid Mechanics</i> , 2008, 603, 63-100.	1.4	44
65	A kinetic theory for particulate systems with bimodal and anisotropic velocity fluctuations. <i>Physics of Fluids</i> , 2008, 20, 123303.	1.6	6
66	The lift force on a bubble in a sheared suspension in a slightly inclined channel. <i>Journal of Fluid Mechanics</i> , 2008, 615, 27-51.	1.4	3
67	Inertial effects on the transfer of heat or mass from neutrally buoyant spheres in a steady linear velocity field. <i>Physics of Fluids</i> , 2006, 18, 073302.	1.6	58
68	The stress in a dilute suspension of spheres suspended in a second-order fluid subject to a linear velocity field. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2006, 138, 87-97.	1.0	57
69	A pseudospectral method to evaluate the fluid velocity produced by an array of translating slender fibers. <i>Physics of Fluids</i> , 2006, 18, 063301.	1.6	17
70	Rheology of particle suspensions with low to moderate fluid inertia at finite particle inertia. <i>Physics of Fluids</i> , 2006, 18, 083303.	1.6	28
71	Rotational and translational dispersion of fibres in isotropic turbulent flows. <i>Journal of Fluid Mechanics</i> , 2005, 540, 143.	1.4	95
72	Clustering of aerosol particles in isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2005, 536, 219-251.	1.4	227

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73	Inertial effects on fibre motion in simple shear flow. <i>Journal of Fluid Mechanics</i> , 2005, 535, 383-414.	1.4	108
74	Bubble-size dependence of the critical electrolyte concentration for inhibition of coalescence. <i>Journal of Colloid and Interface Science</i> , 2004, 275, 290-297.	5.0	81
75	Coalescence and bouncing of small aerosol droplets. <i>Journal of Fluid Mechanics</i> , 2004, 518, 157-185.	1.4	55
76	Shear flow of a suspension of bubbles rising in an inclined channel. <i>Journal of Fluid Mechanics</i> , 2004, 515, 261-292.	1.4	11
77	Rheology of suspensions with high particle inertia and moderate fluid inertia. <i>Journal of Fluid Mechanics</i> , 2003, 480, 95-118.	1.4	127
78	Coagulation-induced particle-concentration fluctuations in homogeneous, isotropic turbulence. <i>Physics of Fluids</i> , 2002, 14, 2447.	1.6	15
79	The transition from steady to weakly turbulent flow in a close-packed ordered array of spheres. <i>Journal of Fluid Mechanics</i> , 2002, 465, 59-97.	1.4	48
80	Finite-Weber-number motion of bubbles through a nearly inviscid liquid. <i>Journal of Fluid Mechanics</i> , 2002, 460, 241-280.	1.4	44
81	Collision and rebound of small droplets in an incompressible continuum gas. <i>Journal of Fluid Mechanics</i> , 2002, 454, 145-201.	1.4	45
82	Moderate-Reynolds-number flow in a wall-bounded porous medium. <i>Journal of Fluid Mechanics</i> , 2002, 453, 315-344.	1.4	28
83	The first effects of fluid inertia on flows in ordered and random arrays of spheres. <i>Journal of Fluid Mechanics</i> , 2001, 448, 213-241.	1.4	352
84	Moderate-Reynolds-number flows in ordered and random arrays of spheres. <i>Journal of Fluid Mechanics</i> , 2001, 448, 243-278.	1.4	419
85	Rheology of non-Brownian rigid fiber suspensions with adhesive contacts. <i>Journal of Rheology</i> , 2001, 45, 369-382.	1.3	99
86	Measurements of the average properties of a suspension of bubbles rising in a vertical channel. <i>Journal of Fluid Mechanics</i> , 2001, 429, 307-342.	1.4	125
87	Dynamics of droplet rebound from a weakly deformable gas-liquid interface. <i>Physics of Fluids</i> , 2001, 13, 3526-3532.	1.6	17
88	INERTIAL EFFECTS IN SUSPENSION AND POROUS-MEDIA FLOWS. <i>Annual Review of Fluid Mechanics</i> , 2001, 33, 619-647.	10.8	314
89	Particle clustering due to hydrodynamic interactions. <i>Physics of Fluids</i> , 2000, 12, 964-970.	1.6	69
90	Particle pressure and marginal stability limits for a homogeneous monodisperse gas-fluidized bed: kinetic theory and numerical simulations. <i>Journal of Fluid Mechanics</i> , 1999, 400, 229-263.	1.4	214

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91	Hydrodynamic interactions between two equal spheres in a highly rarefied gas. <i>Physics of Fluids</i> , 1999, 11, 2772-2787.	1.6	12
92	Numerical simulations of a sphere settling through a suspension of neutrally buoyant fibres. <i>Journal of Fluid Mechanics</i> , 1999, 388, 355-388.	1.4	52
93	Electrical conductivity of isotropic fibre suspensions. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 1999, 455, 1923-1930.	1.0	5
94	Interfacial Tension at the Boundary Between Nematic and Isotropic Phases of a Hard Rod Solution. <i>Macromolecules</i> , 1999, 32, 219-226.	2.2	43
95	The inhomogeneous structure of a bidisperse sedimenting gas-solid suspension. <i>Physics of Fluids</i> , 1999, 11, 3283-3305.	1.6	16
96	Hydrodynamic and boundary-layer dispersion in bidisperse porous media. <i>Journal of Fluid Mechanics</i> , 1999, 385, 359-379.	1.4	22
97	Interactions between contacting fibers. <i>Physics of Fluids</i> , 1998, 10, 2111-2113.	1.6	37
98	Turbulent coagulation of colloidal particles. <i>Journal of Fluid Mechanics</i> , 1998, 364, 81-113.	1.4	76
99	Observations of coagulation in isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 1998, 371, 81-107.	1.4	33
100	Rheology of dense bubble suspensions. <i>Physics of Fluids</i> , 1997, 9, 1540-1561.	1.6	41
101	A method for calculating hydrodynamic interactions between two bodies in low Mach number free-molecular flows with application to the resistivity functions for two aligned cylinders. <i>Physics of Fluids</i> , 1997, 9, 3550-3565.	1.6	8
102	Lubrication flows between spherical particles colliding in a compressible non-continuum gas. <i>Journal of Fluid Mechanics</i> , 1997, 344, 245-269.	1.4	25
103	Observations of high Reynolds number bubbles interacting with a rigid wall. <i>Physics of Fluids</i> , 1997, 9, 44-56.	1.6	135
104	Moderate Reynolds number flows through periodic and random arrays of aligned cylinders. <i>Journal of Fluid Mechanics</i> , 1997, 349, 31-66.	1.4	237
105	Instability of Sedimenting Bidisperse Particle Gas Suspensions. <i>Flow, Turbulence and Combustion</i> , 1997, 58, 275-303.	0.2	6
106	Hydrodynamic diffusion near solid boundaries with applications to heat and mass transport into sheared suspensions and fixed-fibre beds. <i>Journal of Fluid Mechanics</i> , 1996, 318, 31.	1.4	13
107	Non-continuum lubrication flows between particles colliding in a gas. <i>Journal of Fluid Mechanics</i> , 1996, 313, 283-308.	1.4	61
108	Simple shear flows of dense gas-solid suspensions at finite Stokes numbers. <i>Journal of Fluid Mechanics</i> , 1996, 313, 309-341.	1.4	121

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109	Rheology of dilute suspensions of charged fibers. <i>Physics of Fluids</i> , 1996, 8, 2792-2807.	1.6	34
110	Isotropic-nematic phase transitions in aqueous solutions of weakly charged, rodlike polyelectrolytes. <i>Journal of Chemical Physics</i> , 1996, 104, 359-374.	1.2	21
111	The effect of hydrodynamic interactions on the orientation distribution in a fiber suspension subject to simple shear flow. <i>Physics of Fluids</i> , 1995, 7, 487-506.	1.6	117
112	A model for orientational diffusion in fiber suspensions. <i>Physics of Fluids</i> , 1995, 7, 2086-2088.	1.6	95
113	Simple shear flows of dilute gas-solid suspensions. <i>Journal of Fluid Mechanics</i> , 1995, 296, 211-245.	1.4	71
114	Numerical simulations of the effect of hydrodynamic interactions on diffusivities of integral membrane proteins. <i>Journal of Fluid Mechanics</i> , 1995, 293, 147-180.	1.4	70
115	Numerical and theoretical solutions for a drop spreading below a free fluid surface. <i>Journal of Fluid Mechanics</i> , 1995, 287, 251-278.	1.4	38
116	Kinetic theory for a mobile adsorbed gas. <i>Journal of Chemical Physics</i> , 1994, 101, 4391-4406.	1.2	4
117	The extensional viscosity and effective thermal conductivity of a dispersion of aligned disks. <i>Physics of Fluids</i> , 1994, 6, 1955-1962.	1.6	6
118	Hydrodynamic diffusion in a suspension of sedimenting point particles with periodic boundary conditions. <i>Physics of Fluids</i> , 1994, 6, 2894-2900.	1.6	46
119	Collisions of slightly deformable, high Reynolds number bubbles with short-range repulsive forces. <i>Physics of Fluids</i> , 1994, 6, 2591-2605.	1.6	47
120	The effect of hydrodynamic interactions on the tracer and gradient diffusion of integral membrane proteins in lipid bilayers. <i>Journal of Fluid Mechanics</i> , 1994, 258, 167-190.	1.4	31
121	Simple shear flow of a suspension of fibres in a dilute polymer solution at high Deborah number. <i>Journal of Fluid Mechanics</i> , 1993, 252, 187-207.	1.4	41
122	Properties of a bidisperse particle-gas suspension Part 1. Collision time small compared with viscous relaxation time. <i>Journal of Fluid Mechanics</i> , 1993, 247, 623-641.	1.4	20
123	Hydrodynamic diffusion in dilute sedimenting suspensions at moderate Reynolds numbers. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 1141-1155.	1.6	42
124	Hydrodynamic, translational diffusion in fiber suspensions subject to simple shear flow. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 849-862.	1.6	34
125	The rate of coalescence in a suspension of high Reynolds number, low Weber number bubbles. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 1135-1140.	1.6	19
126	The effect of hydrodynamic interactions on the average properties of a bidisperse suspension of high Reynolds number, low Weber number bubbles. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 1123-1134.	1.6	27

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127	Extensional flow of a suspension of fibers in a dilute polymer solution. <i>Physics of Fluids A, Fluid Dynamics</i> , 1992, 4, 1070-1073.	1.6	6
128	Averaged equation and diagrammatic approximations to the average concentration of a tracer dispersed by a Gaussian random velocity field. <i>Physics of Fluids A, Fluid Dynamics</i> , 1992, 4, 887-894.	1.6	20
129	Anomalous diffusion of momentum in a dilute gas-solid suspension. <i>Physics of Fluids A, Fluid Dynamics</i> , 1992, 4, 1337-1346.	1.6	7
130	Polymer stretch in dilute fixed beds of fibres or spheres. <i>Journal of Fluid Mechanics</i> , 1992, 244, 17.	1.4	20
131	The resistivity and mobility functions for a model system of two equal-sized proteins in a lipid bilayer. <i>Journal of Fluid Mechanics</i> , 1992, 243, 679.	1.4	27
132	Observations of fibre orientation in simple shear flow of semi-dilute suspensions. <i>Journal of Fluid Mechanics</i> , 1992, 238, 277-296.	1.4	179
133	Screening in sedimenting suspensions. <i>Journal of Fluid Mechanics</i> , 1991, 224, 275-303.	1.4	142
134	Observations of axisymmetric tracer particle orientation during flow through a dilute fixed bed of fibers. <i>Physics of Fluids A, Fluid Dynamics</i> , 1991, 3, 2516-2528.	1.6	12
135	The AC Electrical Impedance of a Fractal Boundary to an Electrolytic Solution. <i>Journal of the Electrochemical Society</i> , 1991, 138, 475-484.	1.3	14
136	Orientalional dispersion of fibers in extensional flows. <i>Physics of Fluids A, Fluid Dynamics</i> , 1990, 2, 1077-1093.	1.6	44
137	Kinetic theory for a monodisperse gas-solid suspension. <i>Physics of Fluids A, Fluid Dynamics</i> , 1990, 2, 1711-1723.	1.6	193
138	The average rotation rate of a fiber in the linear flow of a semidilute suspension. <i>Physics of Fluids A, Fluid Dynamics</i> , 1990, 2, 2093-2102.	1.6	41
139	On hydrodynamic diffusion and drift in sheared suspensions. <i>Physics of Fluids A, Fluid Dynamics</i> , 1989, 1, 1742-1745.	1.6	20
140	The instability of a dispersion of sedimenting spheroids. <i>Journal of Fluid Mechanics</i> , 1989, 209, 521-542.	1.4	134
141	The effect of order on dispersion in porous media. <i>Journal of Fluid Mechanics</i> , 1989, 200, 173-188.	1.4	128
142	The combined effects of hydrodynamic interactions and Brownian motion on the orientation of particles flowing through fixed beds. <i>Physics of Fluids</i> , 1988, 31, 2769.	1.4	13
143	A non-local description of advection-diffusion with application to dispersion in porous media. <i>Journal of Fluid Mechanics</i> , 1987, 180, 387.	1.4	156