

German Drazer

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61
papers

1,425
citations

22
h-index

35
g-index

61
ext. papers

1,531
ext. citations

4.2
avg. IF

4.67
L-index

#	Paper	IF	Citations
61	Deterministic and stochastic behaviour of non-Brownian spheres in sheared suspensions. <i>Journal of Fluid Mechanics</i> , 2002 , 460, 307-335	3.7	92
60	Permeability anisotropy induced by the shear displacement of rough fracture walls. <i>Water Resources Research</i> , 2005 , 41,	5.4	87
59	Directional locking and the role of irreversible interactions in deterministic hydrodynamics separations in microfluidic devices. <i>Physical Review Letters</i> , 2009 , 103, 078301	7.4	77
58	Flow channeling in a single fracture induced by shear displacement. <i>Geothermics</i> , 2006 , 35, 576-588	4.3	75
57	Directional locking and deterministic separation in periodic arrays. <i>Journal of Fluid Mechanics</i> , 2009 , 627, 379-401	3.7	61
56	Gravity driven deterministic lateral displacement for particle separation in microfluidic devices. <i>Analytical Chemistry</i> , 2012 , 84, 10621-7	7.8	53
55	Design and development of microbioreactors for long-term cell culture in controlled oxygen microenvironments. <i>Biomedical Microdevices</i> , 2012 , 14, 145-52	3.7	52
54	Anomalous diffusion with absorption: exact time-dependent solutions. <i>Physical Review E</i> , 2000 , 61, 1417-22	2.2	50
53	Experimental evidence of power-law trapping-time distributions in porous media. <i>Physical Review E</i> , 1999 , 60, 5858-64	2.4	50
52	Transport in rough self-affine fractures. <i>Physical Review E</i> , 2002 , 66, 026303	2.4	45
51	Separation of suspended particles by arrays of obstacles in microfluidic devices. <i>Physical Review Letters</i> , 2007 , 98, 050602	7.4	42
50	Permeability of self-affine rough fractures. <i>Physical Review E</i> , 2000 , 62, 8076-85	2.4	37
49	Hydrodynamic interactions in dissipative particle dynamics. <i>Physics of Fluids</i> , 2008 , 20, 103601	4.4	34
48	Microstructure and velocity fluctuations in sheared suspensions. <i>Journal of Fluid Mechanics</i> , 2004 , 511, 237-263	3.7	34
47	Adsorption phenomena in the transport of a colloidal particle through a nanochannel containing a partially wetting fluid. <i>Physical Review Letters</i> , 2002 , 89, 244501	7.4	34
46	Tracer dispersion in two-dimensional rough fractures. <i>Physical Review E</i> , 2001 , 63, 056104	2.4	33
45	Force driven separation of drops by deterministic lateral displacement. <i>Lab on A Chip</i> , 2012 , 12, 2903-8	7.2	31

44	Nanoscale simulations of directional locking. <i>Physics of Fluids</i> , 2010 , 22, 052005	4.4	31
43	Molecular simulation of translational and rotational diffusion of Janus nanoparticles at liquid interfaces. <i>Journal of Chemical Physics</i> , 2015 , 142, 014701	3.9	28
42	Wetting and particle adsorption in nanoflows. <i>Physics of Fluids</i> , 2005 , 17, 017102	4.4	27
41	Microbioreactors to manipulate oxygen tension and shear stress in the microenvironment of vascular stem and progenitor cells. <i>Biotechnology and Applied Biochemistry</i> , 2012 , 59, 97-105	2.8	26
40	Capillary Drop Penetration Method to Characterize the Liquid Wetting of Powders. <i>Langmuir</i> , 2017 , 33, 56-65	4	24
39	Toward predicting tensile strength of pharmaceutical tablets by ultrasound measurement in continuous manufacturing. <i>International Journal of Pharmaceutics</i> , 2016 , 507, 83-9	6.5	21
38	Micropatterned charge heterogeneities via vapor deposition of aminosilanes. <i>Langmuir</i> , 2015 , 31, 10725-33	4.3	19
37	Tracer dispersion in packings of porous activated carbon grains. <i>Chemical Engineering Science</i> , 1999 , 54, 4137-4144	4.4	19
36	Trajectory and distribution of suspended non-Brownian particles moving past a fixed spherical or cylindrical obstacle. <i>Journal of Fluid Mechanics</i> , 2013 , 714, 213-237	3.7	18
35	Directional locking in deterministic lateral-displacement microfluidic separation systems. <i>Physical Review E</i> , 2014 , 90, 012302	2.4	17
34	Inertia and scaling in deterministic lateral displacement. <i>Biomicrofluidics</i> , 2013 , 7, 64111	3.2	17
33	Fractionation by shape in deterministic lateral displacement microfluidic devices. <i>Microfluidics and Nanofluidics</i> , 2015 , 19, 427-434	2.8	16
32	Vector separation of particles and cells using an array of slanted open cavities. <i>Lab on A Chip</i> , 2013 , 13, 1086-92	7.2	16
31	The effect of mechanical strain on properties of lubricated tablets compacted at different pressures. <i>Powder Technology</i> , 2016 , 301, 657-664	5.2	15
30	Stochastic and deterministic vector chromatography of suspended particles in one-dimensional periodic potentials. <i>Physical Review Letters</i> , 2012 , 108, 214501	7.4	15
29	Transport properties of Brownian particles confined to a narrow channel by a periodic potential. <i>Physics of Fluids</i> , 2009 , 21, 102002	4.4	15
28	An analytical study of stochastic resonance in a monostable non-harmonic system. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 283, 255-260	3.3	15
27	Electrokinetically driven deterministic lateral displacement for particle separation in microfluidic devices. <i>Microfluidics and Nanofluidics</i> , 2015 , 18, 1195-1200	2.8	14

26	Partition-induced vector chromatography in microfluidic devices. <i>Journal of Colloid and Interface Science</i> , 2011 , 356, 341-51	9.3	14
25	Irreversibility and pinching in deterministic particle separation. <i>Applied Physics Letters</i> , 2011 , 99, 064102	3.4	13
24	Nonequilibrium potential approach: Local and global stability of stationary patterns in an activator-inhibitor system with fast inhibition. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997 , 240, 571-585	3.3	11
23	Gravity driven deterministic lateral displacement for suspended particles in a 3D obstacle array. <i>Scientific Reports</i> , 2016 , 6, 31428	4.9	10
22	Exact expression for the diffusion propagator in a family of time-dependent anharmonic potentials. <i>Physical Review E</i> , 1999 , 60, 2540-6	2.4	10
21	Fluid enhancement of particle transport in nanochannels. <i>Physics of Fluids</i> , 2006 , 18, 117102	4.4	9
20	Anomalous transport in activated carbon porous samples: power-law trapping-time distributions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 283, 181-186	3.3	9
19	Concentration dependence of diffusion-adsorption rate in activated carbon. <i>Chemical Engineering Science</i> , 1999 , 54, 4285-4291	4.4	9
18	Transport of Brownian particles in a narrow, slowly varying serpentine channel. <i>Journal of Chemical Physics</i> , 2015 , 142, 154114	3.9	8
17	Deterministic separation of suspended particles in a reconfigurable obstacle array. <i>Journal of Micromechanics and Microengineering</i> , 2015 , 25, 114002	2	8
16	Colloidal transport within nematic liquid crystals with arrays of obstacles. <i>Soft Matter</i> , 2017 , 14, 83-91	3.6	7
15	Centrifuge-based deterministic lateral displacement separation. <i>Microfluidics and Nanofluidics</i> , 2016 , 20, 1	2.8	7
14	Deterministic fractionation of binary suspensions moving past a line of microposts. <i>Microfluidics and Nanofluidics</i> , 2014 , 17, 519-526	2.8	7
13	Hysteresis, force oscillations, and nonequilibrium effects in the adhesion of spherical nanoparticles to atomically smooth surfaces. <i>Physical Review Letters</i> , 2005 , 95, 016102	7.4	7
12	Stable-unstable crossover in non-Newtonian radial Hele-Shaw flow. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 283, 187-192	3.3	7
11	Liquid-based stationary phase for deterministic lateral displacement separation in microfluidics. <i>Soft Matter</i> , 2017 , 13, 7649-7656	3.6	6
10	The Effect of Fracture Roughness on the Onset of Nonlinear Flow. <i>Water Resources Research</i> , 2020 , 56, e2020WR028049	5.4	6
9	Analysis of the trajectory of a sphere moving through a geometric constriction. <i>Physics of Fluids</i> , 2013 , 25, 062001	4.4	6

8	Mechanism governing separation in microfluidic pinched flow fractionation devices. <i>Microfluidics and Nanofluidics</i> , 2014 , 17, 1003-1009	2.8	5
7	Transport of Brownian particles confined to a weakly corrugated channel. <i>Physics of Fluids</i> , 2010 , 22, 122004	4.4	5
6	Exact time-dependent solutions for anomalous diffusion with absorption. <i>Granular Matter</i> , 2001 , 3, 105-107	10.7	5
5	Dynamic Effects on the Mobilization of a Deposited Nanoparticle by a Moving Liquid-Liquid Interface. <i>Physical Review Letters</i> , 2018 , 121, 238002	7.4	5
4	Tracer dispersion in double porosity porous media with nonlinear adsorption. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998 , 257, 371-375	3.3	4
3	Space-time transformations within the path-integral approach to stochastic processes. <i>Physical Review E</i> , 1996 , 54, 86-91	2.4	4
2	Capillary rise in a closed column: Application to the characterization of powders. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 602, 124822	5.1	2
1	The effect of neighbors on the effective inertial collision efficiency of cylindrical collectors. <i>Journal of Aerosol Science</i> , 2021 , 105910	4.3	1