

German Drazer

List of Publications by Year in Descending Order

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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	The effect of neighbors on the effective inertial collision efficiency of cylindrical collectors. <i>Journal of Aerosol Science</i> , 2021 , 105910	4.3	1
60	The Effect of Fracture Roughness on the Onset of Nonlinear Flow. <i>Water Resources Research</i> , 2020 , 56, e2020WR028049	5.4	6
59	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
58	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
57	Capillary Drop Penetration Method to Characterize the Liquid Wetting of Powders. <i>Langmuir</i> , 2017 , 33, 56-65	4	24
56	Liquid-based stationary phase for deterministic lateral displacement separation in microfluidics. <i>Soft Matter</i> , 2017 , 13, 7649-7656	3.6	6
55	Colloidal transport within nematic liquid crystals with arrays of obstacles. <i>Soft Matter</i> , 2017 , 14, 83-91	3.6	7
54	Gravity driven deterministic lateral displacement for suspended particles in a 3D obstacle array. <i>Scientific Reports</i> , 2016 , 6, 31428	4.9	10
53	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
52	Centrifuge-based deterministic lateral displacement separation. <i>Microfluidics and Nanofluidics</i> , 2016 , 20, 1	2.8	7
51	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
50	Electrokinetically driven deterministic lateral displacement for particle separation in microfluidic devices. <i>Microfluidics and Nanofluidics</i> , 2015 , 18, 1195-1200	2.8	14
49	Fractionation by shape in deterministic lateral displacement microfluidic devices. <i>Microfluidics and Nanofluidics</i> , 2015 , 19, 427-434	2.8	16
48	Micropatterned charge heterogeneities via vapor deposition of aminosilanes. <i>Langmuir</i> , 2015 , 31, 10725-10733	4.3	19
47	Transport of Brownian particles in a narrow, slowly varying serpentine channel. <i>Journal of Chemical Physics</i> , 2015 , 142, 154114	3.9	8
46	Deterministic separation of suspended particles in a reconfigurable obstacle array. <i>Journal of Micromechanics and Microengineering</i> , 2015 , 25, 114002	2	8
45	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

44	Mechanism governing separation in microfluidic pinched flow fractionation devices. <i>Microfluidics and Nanofluidics</i> , 2014 , 17, 1003-1009	2.8	5
43	Directional locking in deterministic lateral-displacement microfluidic separation systems. <i>Physical Review E</i> , 2014 , 90, 012302	2.4	17
42	Deterministic fractionation of binary suspensions moving past a line of microposts. <i>Microfluidics and Nanofluidics</i> , 2014 , 17, 519-526	2.8	7
41	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
40	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
39	Inertia and scaling in deterministic lateral displacement. <i>Biomicrofluidics</i> , 2013 , 7, 64111	3.2	17
38	Analysis of the trajectory of a sphere moving through a geometric constriction. <i>Physics of Fluids</i> , 2013 , 25, 062001	4.4	6
37	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
36	Stochastic and deterministic vector chromatography of suspended particles in one-dimensional periodic potentials. <i>Physical Review Letters</i> , 2012 , 108, 214501	7.4	15
35	Gravity driven deterministic lateral displacement for particle separation in microfluidic devices. <i>Analytical Chemistry</i> , 2012 , 84, 10621-7	7.8	53
34	Force driven separation of drops by deterministic lateral displacement. <i>Lab on A Chip</i> , 2012 , 12, 2903-8	7.2	31
33	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
32	Partition-induced vector chromatography in microfluidic devices. <i>Journal of Colloid and Interface Science</i> , 2011 , 356, 341-51	9.3	14
31	Irreversibility and pinching in deterministic particle separation. <i>Applied Physics Letters</i> , 2011 , 99, 064102	3.4	13
30	Nanoscale simulations of directional locking. <i>Physics of Fluids</i> , 2010 , 22, 052005	4.4	31
29	Transport of Brownian particles confined to a weakly corrugated channel. <i>Physics of Fluids</i> , 2010 , 22, 122004	4.4	5
28	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
27	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

26	Directional locking and deterministic separation in periodic arrays. <i>Journal of Fluid Mechanics</i> , 2009 , 627, 379-401	3-7	61
25	Hydrodynamic interactions in dissipative particle dynamics. <i>Physics of Fluids</i> , 2008 , 20, 103601	4-4	34
24	Separation of suspended particles by arrays of obstacles in microfluidic devices. <i>Physical Review Letters</i> , 2007 , 98, 050602	7-4	42
23	Flow channeling in a single fracture induced by shear displacement. <i>Geothermics</i> , 2006 , 35, 576-588	4-3	75
22	Fluid enhancement of particle transport in nanochannels. <i>Physics of Fluids</i> , 2006 , 18, 117102	4-4	9
21	Permeability anisotropy induced by the shear displacement of rough fracture walls. <i>Water Resources Research</i> , 2005 , 41,	5-4	87
20	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
19	Wetting and particle adsorption in nanoflows. <i>Physics of Fluids</i> , 2005 , 17, 017102	4-4	27
18	Microstructure and velocity fluctuations in sheared suspensions. <i>Journal of Fluid Mechanics</i> , 2004 , 511, 237-263	3-7	34
17	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
16	Transport in rough self-affine fractures. <i>Physical Review E</i> , 2002 , 66, 026303	2-4	45
15	Deterministic and stochastic behaviour of non-Brownian spheres in sheared suspensions. <i>Journal of Fluid Mechanics</i> , 2002 , 460, 307-335	3-7	92
14	Exact time-dependent solutions for anomalous diffusion with absorption. <i>Granular Matter</i> , 2001 , 3, 105-107		5
13	Tracer dispersion in two-dimensional rough fractures. <i>Physical Review E</i> , 2001 , 63, 056104	2-4	33
12	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
11	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
10	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
9	Permeability of self-affine rough fractures. <i>Physical Review E</i> , 2000 , 62, 8076-85	2-4	37

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| 8 | Anomalous diffusion with absorption: exact time-dependent solutions. <i>Physical Review E</i> , 2000 , 61, 1417-22 | 2.4 | 50 |
| 7 | 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 |
| 6 | Tracer dispersion in packings of porous activated carbon grains. <i>Chemical Engineering Science</i> , 1999 , 54, 4137-4144 | 4.4 | 19 |
| 5 | Concentration dependence of diffusion-adsorption rate in activated carbon. <i>Chemical Engineering Science</i> , 1999 , 54, 4285-4291 | 4.4 | 9 |
| 4 | Experimental evidence of power-law trapping-time distributions in porous media. <i>Physical Review E</i> , 1999 , 60, 5858-64 | 2.4 | 50 |
| 3 | 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 |
| 2 | 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 |
| 1 | Space-time transformations within the path-integral approach to stochastic processes. <i>Physical Review E</i> , 1996 , 54, 86-91 | 2.4 | 4 |