Yunyun Li

List of Publications by Year
in descending order

46 papers	833 citations	623734 14 h-index	501196 28 g-index
46 all docs	46 docs citations	46 times ranked	688 citing authors

#	Article	IF	Citations
1	Hydrodynamic and entropic effects on colloidal diffusion in corrugated channels. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9564-9569.	7.1	95
2	Spontaneous spiking in an autaptic Hodgkin-Huxley setup. Physical Review E, 2010, 82, 061907.	2.1	84
3	Active Brownian motion in a narrow channel. European Physical Journal: Special Topics, 2014, 223, 3227-3242.	2.6	61
4	Manipulating chiral microswimmers in a channel. Physical Review E, 2014, 90, 062301.	2.1	57
5	Diffusion of chiral Janus particles in a sinusoidal channel. Europhysics Letters, 2015, 109, 10003.	2.0	54
6	Pseudochemotactic drifts of artificial microswimmers. Physical Review E, 2015, 92, 012114.	2.1	45
7	Dimensional crossover of heat conduction in amorphous polyimide nanofibers. National Science Review, 2018, 5, 500-506.	9.5	43
8	1D momentum-conserving systems: the conundrum of anomalous versus normal heat transport. New Journal of Physics, 2015, 17, 043064.	2.9	36
9	Communication: Memory effects and active Brownian diffusion. Journal of Chemical Physics, 2015, 143, 211101.	3.0	33
10	Diffusion of eccentric microswimmers. Soft Matter, 2016, 12, 2017-2024.	2.7	29
11	Diffusion of chiral janus particles in convection rolls. Physical Review Research, 2020, 2, .	3.6	22
12	Na-doping enables both dislocations and holes in EuMg₂Sb₂ for thermoelectric enhancements. Journal of Materials Chemistry A, 2020, 8, 8345-8351.	10.3	20
13	Tubular catalytic micromotors in transition from unidirectional bubble sequences to more complex bidirectional motion. Applied Physics Letters, 2019, 114, .	3.3	19
14	Non-Gaussian normal diffusion in a fluctuating corrugated channel. Physical Review Research, 2019, 1, .	3.6	18
15	Fast hydrogen diffusion induced by hydrogen pre-split for gasochromic based optical hydrogen sensors. International Journal of Hydrogen Energy, 2019, 44, 15665-15676.	7.1	16
16	Enhanced motility in a binary mixture of active nano/microswimmers. Nanoscale, 2020, 12, 9717-9726.	5.6	14
17	Two-dimensional dynamics of a trapped active Brownian particle in a shear flow. Physical Review E, 2017, 96, 062138.	2.1	13
18	Interfacial thermal conductance at metalâ€“nonmetal interface via electronâ€“phonon coupling. Modern Physics Letters B, 2018, 32, 1830004.	1.9	13

#	Article	IF	Citations
19	Temperature dependence of thermal conductivities of coupled rotator lattice and the momentum diffusion in standard map. European Physical Journal B, 2015, 88, 1.	1.5	12
20	Role of radiation in heat transfer from nanoparticles to gas media in photothermal measurements. International Journal of Modern Physics C, 2019, 30, 1950024.	1.7	12
21	Entropic transport in energetic potentials. Chemical Physics, 2010, 375, 514-517.	1.9	11
22	Hydrodynamic interaction of trapped active Janus particles in two dimensions. Physical Review E, 2018, 97, 042602.	2.1	10
23	Diffusion of colloidal rods in corrugated channels. Physical Review E, 2019, 99, 020601.	2.1	10
24	Exit times of a Brownian particle out of a convection roll. Physics of Fluids, 2020, 32, 092010.	4.0	9
25	Active particle diffusion in convection roll arrays. Physical Chemistry Chemical Physics, 2021, 23, 11944-11953.	2.8	9
26	Communication: Cargo towing by artificial swimmers. Journal of Chemical Physics, 2016, 145, 191103.	3.0	8
27	Diffusion of active dimers in a Couette flow. Soft Matter, 2017, 13, 2793-2799.	2.7	7
28	Excess Diffusion of a Driven Colloidal Particle in a Convection Array. Chinese Physics Letters, 2021, 38, 040501.	3.3	7
29	Wave-packet rectification in nonlinear electronic systems: A tunable Aharonov-Bohm diode. Scientific Reports, 2014, 4, 4566.	3.3	6
30	Spin-dependent Seebeck effect in Aharonovâ€“Bohm rings with Rashba and Dresselhaus spinâ€“orbit interactions. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 80, 163-167.	2.7	6
31	Thermal conductance of the coupled-rotator chain: Influence of temperature and size. Europhysics Letters, 2017, 117, 60004.	2.0	6
32	Active diffusion limited reactions. Journal of Chemical Physics, 2019, 150, 154902.	3.0	6
33	Non-Gaussian normal diffusion in low dimensional systems. Frontiers of Physics, 2021, 16, 1.	5.0	6
34	Colloidal clustering and diffusion in a convection cell array. Soft Matter, 2022, 18, 4778-4785.	2.7	5
35	Active microswimmers in a finite two dimensional trap: The role of hydrodynamic interaction. Journal of Chemical Physics, 2019, 150, 104102.	3.0	4
36	Diffusion transients in convection rolls. Journal of Fluid Mechanics, 2021, 912, .	3.4	4

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37	Advection-enhanced diffusion in biased convection arrays. Physical Review E, 2021, 103, L030106.	2.1	4
38	Rotational effect in two-dimensional cooperative directed transport. Frontiers of Physics, 2015, 10, 87-94.	5.0	3
39	Nonlocality of relaxation rates in disordered landscapes. Journal of Chemical Physics, 2017, 146, 084104.	3.0	3
40	Enhanced buoyancy of active particles in convective flows. Physical Review Research, 2021, 3, .	3.6	3
41	Noisy saltatory spike propagation: The breakdown of signal transmission due to channel noise. European Physical Journal: Special Topics, 2010, 187, 171-177.	2.6	2
42	Diffusion of active particles in convective flows. Soft Matter, 2021, 17, 2256-2264.	2.7	2
43	Anisotropic Diffusion in Driven Convection Arrays. Entropy, 2021, 23, 343.	2.2	2
44	Self-propulsion of Janus particles in the free molecular regime. Physics of Fluids, 2022, 34, 033311.	4.0	2
45	Artificial microstructure materials and heat flux manipulation. Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica, 2015, 45, 705-713.	0.5	1
46	Consistent Hamiltonian models for space-momentum diffusion. Physical Review E, 2022, 105, .	2.1	1