Gaojin Li

List of Publications by Year in descending order

27 papers	1,102 citations	430754 18 h-index	526166 27 g-index
27 all docs	27 docs citations	27 times ranked	1124 citing authors

#	Article	IF	Citations
1	Spontaneous and field-induced crystallographic reorientation of metal electrodeposits at battery anodes. Science Advances, 2020, 6, eabb1122.	4.7	143
2	Hydrodynamic interaction of microswimmers near a wall. Physical Review E, 2014, 90, 013010.	0.8	134
3	Dynamics of particle migration in channel flow of viscoelastic fluids. Journal of Fluid Mechanics, 2015, 785, 486-505.	1.4	96
4	Stabilizing electrochemical interfaces in viscoelastic liquid electrolytes. Science Advances, 2018, 4, eaao6243.	4.7	81
5	Force and power of flapping plates in a fluid. Journal of Fluid Mechanics, 2012, 712, 598-613.	1.4	67
6	Effect of solid boundaries on swimming dynamics of microorganisms in a viscoelastic fluid. Rheologica Acta, 2014, 53, 911-926.	1.1	59
7	Collective Motion of Microorganisms in a Viscoelastic Fluid. Physical Review Letters, 2016, 117, 118001.	2.9	56
8	Undulatory swimming in non-Newtonian fluids. Journal of Fluid Mechanics, 2015, 784, .	1.4	51
9	Electroconvection in a Viscoelastic Electrolyte. Physical Review Letters, 2019, 122, 124501.	2.9	48
10	Microswimming in viscoelastic fluids. Journal of Non-Newtonian Fluid Mechanics, 2021, 297, 104655.	1.0	47
11	Hydrodynamic interaction of swimming organisms in an inertial regime. Physical Review E, 2016, 94, 053104.	0.8	46
12	Ultrathin zwitterionic polymeric interphases for stable lithium metal anodes. Matter, 2021, 4, 3753-3773.	5.0	35
13	Numerical Studies on Locomotion Perfromance of Fishlike Tail Fins. Journal of Hydrodynamics, 2012, 24, 488-495.	1.3	29
14	Suppression of dendrite growth by cross-flow in microfluidics. Science Advances, 2021, 7, .	4.7	27
15	Electroconvection and Morphological Instabilities in Potentiostatic Electrodeposition across Liquid Electrolytes with Polymer Additives. Journal of the Electrochemical Society, 2018, 165, A3697-A3713.	1.3	24
16	Designing Polymeric Interphases for Stable Lithium Metal Deposition. Nano Letters, 2020, 20, 5749-5758.	4.5	23
17	Electrodeposition of Zinc in Aqueous Electrolytes Containing High Molecular Weight Polymers. Macromolecules, 2020, 53, 2694-2701.	2.2	23
18	LATTICE BOLTZMANN STUDY OF ELECTROHYDRODYNAMIC DROP DEFORMATION WITH LARGE DENSITY RATIO. International Journal of Modern Physics C, 2011, 22, 729-744.	0.8	19

#	Article	IF	Citations
19	Electrophoresis in dilute polymer solutions. Journal of Fluid Mechanics, 2020, 884, .	1.4	17
20	Reduced viscosity for flagella moving in a solution of long polymer chains. Physical Review Fluids, 2018, 3, .	1.0	16
21	Swimming dynamics of a self-propelled droplet. Journal of Fluid Mechanics, 2022, 934, .	1.4	14
22	Near wall motion of undulatory swimmers in non-Newtonian fluids. European Journal of Computational Mechanics, 2017, 26, 44-60.	0.6	11
23	Electroconvection near an ion-selective surface with Butlerâ€“Volmer kinetics. Journal of Fluid Mechanics, 2022, 930, .	1.4	10
24	Dynamic performance and wake structure of flapping plates with different shapes. Acta Mechanica Sinica/Lixue Xuebao, 2014, 30, 800-808.	1.5	8
25	Suppression of electroconvective and morphological instabilities by an imposed cross flow of the electrolyte. Physical Review Fluids, 2021, 6, .	1.0	8
26	Structure and Dynamics of Electric-Field-Driven Convective Flows at the Interface between Liquid Electrolytes and Ion-Selective Membranes. Langmuir, 2021, 37, 5895-5901.	1.6	6
27	Structure, Rheology, and Electrokinetics of Soft Colloidal Suspension Electrolytes. Langmuir, 2020, 36, 9047-9053.	1.6	4