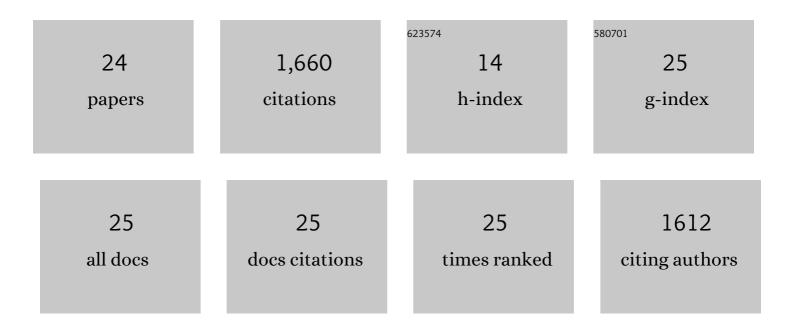
Bin Liu

List of Publications by Year in descending order

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RIN LIU

#	Article	IF	CITATIONS
1	Geometric effects induce anomalous size-dependent active transport in structured environments. Physical Review Fluids, 2022, 7, .	1.0	12
2	Advances in mechanics of hierarchical composite materials. Composites Science and Technology, 2021, 214, 108970.	3.8	72
3	Self-propelling and rolling of a sessile-motile aggregate of the bacterium Caulobacter crescentus. Communications Biology, 2020, 3, 587.	2.0	7
4	Bundled slender-body theory for elongated geometries in swimming bacteria. Physical Review Fluids, 2020, 5, .	1.0	2
5	Symmetry-based nonperturbative micromanipulation in a three-dimensional microfluidic device. Physical Review Fluids, 2020, 5, .	1.0	2
6	3D Pixel Mechanical Metamaterials. Advanced Materials, 2019, 31, e1900548.	11.1	145
7	Topological kinematics of origami metamaterials. Nature Physics, 2018, 14, 811-815.	6.5	74
8	Topological Mechanics of Origami and Kirigami. Physical Review Letters, 2016, 116, 135501.	2.9	156
9	Origami structures with a critical transition to bistability arising from hidden degrees of freedom. Nature Materials, 2015, 14, 389-393.	13.3	382
10	Propulsive matrix of a helical flagellum. Chinese Physics B, 2014, 23, 114703.	0.7	5
11	Propulsion by a helical flagellum in a capillary tube. Physics of Fluids, 2014, 26, .	1.6	39
12	Helical motion of the cell body enhances <i>Caulobacter crescentus</i> motility. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11252-11256.	3.3	75
13	Locomotion of Helical Bodies in Viscoelastic Fluids: Enhanced Swimming at Large Helical Amplitudes. Physical Review Letters, 2013, 111, 068101.	2.9	139
14	Helical swimming in Stokes flow using a novel boundary-element method. Physics of Fluids, 2013, 25, .	1.6	13
15	Speed of a swimming sheet in Newtonian and viscoelastic fluids. Physical Review E, 2013, 87, 013015.	0.8	56
16	Propulsion of microorganisms by a helical flagellum. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E338-47.	3.3	186
17	Intrinsic Stability of a Body Hovering in an Oscillating Airflow. Physical Review Letters, 2012, 108, 068103.	2.9	14
18	Oscillations of a layer of viscoelastic fluid under steady forcing. Journal of Non-Newtonian Fluid Mechanics, 2012, 175-176, 38-43.	1.0	5

Bin Liu

#	Article	IF	CITATIONS
19	Force-free swimming of a model helical flagellum in viscoelastic fluids. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19516-19520.	3.3	170
20	Focused Force Transmission through an Aqueous Suspension of Granules. Physical Review Letters, 2010, 105, 188301.	2.9	38
21	Hovering of a rigid pyramid in an oscillatory airflow. Journal of Fluid Mechanics, 2010, 650, 415-425.	1.4	17
22	Self-Induced Cyclic Reorganization of Free Bodies through Thermal Convection. Physical Review Letters, 2008, 100, 244501.	2.9	20
23	Implicit density-functional theory. Physical Review A, 2006, 74, .	1.0	13
24	The critical temperature of two-dimensional and three-dimensional Ising models. American Journal of Physics, 2003, 71, 806-808.	0.3	6