Andreas ZÃ¶ttl

List of Publications by Year
in descending order

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21	1,538	623188	752256
papers	citations	14 h-index	20 g-index

21	21	21	1105
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microswimmers learning chemotaxis with genetic algorithms. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	33
2	Chirality-induced bacterial rheotaxis in bulk shear flows. Science Advances, 2020, 6, eabb2012.	4.7	31
3	Mesoscale modelling of polymer aggregate digestion. Current Research in Food Science, 2020, 3, 122-133.	2.7	4
4	Simulation of microswimmer hydrodynamics with multiparticle collision dynamics*. Chinese Physics B, 2020, 29, 074701.	0.7	9
5	Dynamics of individual Brownian rods in a microchannel flow. Soft Matter, 2019, 15, 5810-5814.	1.2	15
6	Oscillatory surface rheotaxis of swimming E. coli bacteria. Nature Communications, 2019, 10, 3434.	5.8	73
7	Frequency-dependent higher-order Stokes singularities near a planar elastic boundary: Implications for the hydrodynamics of an active microswimmer near an elastic interface. Physical Review E, 2019, 100, 032610.	0.8	14
8	Driven spheres, ellipsoids and rods in explicitly modeled polymer solutions. Journal of Physics Condensed Matter, 2019, 31, 234001.	0.7	7
9	Enhanced bacterial swimming speeds in macromolecular polymer solutions. Nature Physics, 2019, 15, 554-558.	6.5	90
10	Exopolymer Dynamics Driven by Sessile Flagellates. Biophysical Journal, 2018, 114, 514a.	0.2	0
11	Simulating squirmers with multiparticle collision dynamics. European Physical Journal E, 2018, 41, 61.	0.7	31
12	Far-field theory for trajectories of magnetic ellipsoids in rectangular and circular channels. IMA Journal of Applied Mathematics, 2018, 83, 767-782.	0.8	10
13	Focusing and Sorting of Ellipsoidal Magnetic Particles in Microchannels. Physical Review Letters, 2017, 119, 198002.	2.9	39
14	Biopolymer dynamics driven by helical flagella. Physical Review Fluids, 2017, 2, .	1.0	9
15	Phase separation and coexistence of hydrodynamically interacting microswimmers. Soft Matter, 2016, 12, 9821-9831.	1.2	63
16	Emergent behavior in active colloids. Journal of Physics Condensed Matter, 2016, 28, 253001.	0.7	327
17	Detention Times of Microswimmers Close to Surfaces: Influence of Hydrodynamic Interactions and Noise. Physical Review Letters, 2015, 115, 038101.	2.9	117
18	Hydrodynamics Determines Collective Motion and Phase Behavior of Active Colloids in Quasi-Two-Dimensional Confinement. Physical Review Letters, 2014, 112, 118101.	2.9	296

#	Article	IF	Citations
19	Periodic and quasiperiodic motion of an elongated microswimmer in Poiseuille flow. European Physical Journal E, 2013, 36, 4.	0.7	103
20	Nonlinear Dynamics of a Microswimmer in Poiseuille Flow. Physical Review Letters, 2012, 108, 218104.	2.9	238
21	Flow Loading Induces Oscillatory Trajectories in a Bloodstream Parasite. Biophysical Journal, 2012, 103, 1162-1169.	0.2	29