Eric E Keaveny

List of Publications by Year
in descending order

25 papers	679 citations	687363 13 h-index	610901 24 g-index
25 all docs	25 docs citations	25 times ranked	723 citing authors

#	Article	IF	Citations
1	Modeling the magnetic interactions between paramagnetic beads in magnetorheological fluids. Journal of Computational Physics, 2008, 227, 9554-9571.	3.8	86
2	Optimization of Chiral Structures for Microscale Propulsion. Nano Letters, 2013, 13, 531-537.	9.1	86
3	A comparative study between dissipative particle dynamics and molecular dynamics for simple- and complex-geometry flows. Journal of Chemical Physics, 2005, 123, 104107.	3.0	68
4	Experiments and theory of undulatory locomotion in a simple structured medium. Journal of the Royal Society Interface, 2012, 9, 1809-1823.	3.4	62
5	Spiral swimming of an artificial micro-swimmer. Journal of Fluid Mechanics, 2008, 598, 293-319.	3.4	46
6	From flagellar undulations to collective motion: predicting the dynamics of sperm suspensions. Journal of the Royal Society Interface, 2018, 15, 20170834.	3.4	43
7	Applying a second-kind boundary integral equation for surface tractions in Stokes flow. Journal of Computational Physics, 2011, 230, 2141-2159.	3.8	41
8	Fluctuating force-coupling method for simulations of colloidal suspensions. Journal of Computational Physics, 2014, 269, 61-79.	3.8	38
9	Large-scale simulation of steady and time-dependent active suspensions with the force-coupling method. Journal of Computational Physics, 2015, 302, 524-547.	3.8	33
10	Collective dynamics of sperm cells. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190384.	4.0	24
11	Simulating Brownian suspensions with fluctuating hydrodynamics. Journal of Chemical Physics, 2015, 143, 244109.	3.0	23
12	Methods for suspensions of passive and active filaments. Journal of Computational Physics, 2021, 424, 109846.	3.8	23
13	Interactions between comoving magnetic microswimmers. Physical Review E, 2008, 77, 041910.	2.1	20
14	Hydrodynamic mobility of chiral colloidal aggregates. Physical Review E, 2009, 79, 051405.	2.1	12
15	A fluctuating boundary integral method for Brownian suspensions. Journal of Computational Physics, 2018, 374, 1094-1119.	3.8	12
16	Simulations of Brownian tracer transport in squirmer suspensions. IMA Journal of Applied Mathematics, 2018, 83, 680-699.	1.6	11
17	Coordinated motion of active filaments on spherical surfaces. Physical Review Fluids, 2021, 6, .	2.5	11
18	Spontaneous onset of convection in a uniform phoretic channel. Soft Matter, 2020, 16, 1259-1269.	2.7	8

#	Article	IF	Citations
19	Simulating infinite vortex lattices in superfluids. Journal of Physics Condensed Matter, 2016, 28, 285201.	1.8	6
20	Predicting path from undulations forC. elegansusing linear and nonlinear resistive force theory. Physical Biology, 2017, 14, 025001.	1.8	6
21	Enhanced locomotion, effective diffusion and trapping of undulatory micro-swimmers in heterogeneous environments. Journal of the Royal Society Interface, 2018, 15, 20180592.	3.4	6
22	The instability of gyrotactically trapped cellÂlayers. Journal of Fluid Mechanics, 2019, 868, .	3.4	5
23	A generalised drift-correcting time integration scheme for Brownian suspensions of rigid particles with arbitrary shape. Journal of Computational Physics, 2022, 467, 111437.	3.8	5
24	Analysis of Shape Optimization for Magnetic Microswimmers. SIAM Journal on Control and Optimization, 2013, 51, 3093-3126.	2.1	4
25	Synchronized states of hydrodynamically coupled filaments and their stability. Physical Review Fluids, 2022, 7, .	2.5	0