

Florencio Balboa Balboa Usabiaga

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

662
citations

623734

14
h-index

752698

20
g-index

23
all docs

23
docs citations

23
times ranked

550
citing authors

#	ARTICLE	IF	CITATIONS
1	Staggered Schemes for Fluctuating Hydrodynamics. <i>Multiscale Modeling and Simulation</i> , 2012, 10, 1369-1408.	1.6	96
2	Rapid sampling of stochastic displacements in Brownian dynamics simulations. <i>Journal of Chemical Physics</i> , 2017, 146, 124116.	3.0	79
3	Hydrodynamics of suspensions of passive and active rigid particles: a rigid multiblob approach. <i>Communications in Applied Mathematics and Computational Science</i> , 2016, 11, 217-296.	1.8	63
4	Brownian dynamics of confined rigid bodies. <i>Journal of Chemical Physics</i> , 2015, 143, 144107.	3.0	53
5	Brownian dynamics without Green's functions. <i>Journal of Chemical Physics</i> , 2014, 140, 134110.	3.0	48
6	Inertial coupling method for particles in an incompressible fluctuating fluid. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014, 269, 139-172.	6.6	41
7	Relating Rheotaxis and Hydrodynamic Actuation using Asymmetric Gold-Platinum Phoretic Rods. <i>Physical Review Letters</i> , 2019, 123, 178004.	7.8	38
8	Brownian dynamics of confined suspensions of active microrollers. <i>Journal of Chemical Physics</i> , 2017, 146, 134104.	3.0	36
9	Motile dislocations knead odd crystals into whorls. <i>Nature Physics</i> , 2022, 18, 212-218.	16.7	35
10	Inertial coupling for point particle fluctuating hydrodynamics. <i>Journal of Computational Physics</i> , 2013, 235, 701-722.	3.8	31
11	Large scale Brownian dynamics of confined suspensions of rigid particles. <i>Journal of Chemical Physics</i> , 2017, 147, 244103.	3.0	31
12	The Stokes-Einstein relation at moderate Schmidt number. <i>Journal of Chemical Physics</i> , 2013, 139, 214113.	3.0	28
13	Applications of computational geometry to the molecular simulation of interfaces. <i>Physical Review E</i> , 2009, 79, 046709.	2.1	18
14	Characteristic Times of Polymer Tumbling Under Shear Flow. <i>Macromolecular Theory and Simulations</i> , 2011, 20, 466-471.	1.4	15
15	A multiblob approach to colloidal hydrodynamics with inherent lubrication. <i>Journal of Chemical Physics</i> , 2014, 141, 204102.	3.0	15
16	Metallic microswimmers driven up the wall by gravity. <i>Soft Matter</i> , 2021, 17, 6597-6602.	2.7	12
17	Minimal model for acoustic forces on Brownian particles. <i>Physical Review E</i> , 2013, 88, 063304.	2.1	7
18	Hydrodynamic fluctuations in quasi-two dimensional diffusion. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018, 2018, 063207.	2.3	6

#	ARTICLE	IF	CITATIONS
19	Hydrodynamics of spike proteins dictate a transport-affinity competition for SARS-CoV-2 and other enveloped viruses. <i>Scientific Reports</i> , 2022, 12, .	3.3	6
20	A numerical method for suspensions of articulated bodies in viscous flows. <i>Journal of Computational Physics</i> , 2022, 464, 111365.	3.8	2