List of Publications by Year in descending order

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YUAN-NAN YOUNG

#	Article	IF	CITATIONS
1	An arbitrary Lagrangian-Eulerian method for simulating interfacial dynamics between a hydrogel and a fluid. Journal of Computational Physics, 2022, 451, 110851.	1.9	4
2	The effect of rigid cells on blood viscosity: linking rheology and sickle cell anemia. Soft Matter, 2022, 18, 554-565.	1.2	3
3	Two-dimensional hydrodynamics of a Janus particle vesicle. Journal of Fluid Mechanics, 2022, 941, .	1.4	2
4	The effects of surface hydration on capillary adhesion under nanoscale confinement. Soft Matter, 2022, 18, 4786-4791.	1.2	1
5	Gait switching and targeted navigation of microswimmers via deep reinforcement learning. Communications Physics, 2022, 5, .	2.0	21
6	Primary cilium: a paradigm for integrating mathematical modeling with experiments and numerical simulations in mechanobiology. Mathematical Biosciences and Engineering, 2021, 18, 1215-1237.	1.0	3
7	Effects of surfactant solubility on the hydrodynamics of a viscous drop in a dc electric field. Physical Review Fluids, 2021, 6, .	1.0	3
8	Mechanical rotation at low Reynolds number via reinforcement learning. Physics of Fluids, 2021, 33, .	1.6	13
9	Hydrodynamics of a semipermeable inextensible membrane under flow and confinement. Physical Review Fluids, 2021, 6, .	1.0	8
10	Wall-induced translation of a rotating particle in a shear-thinning fluid. Journal of Fluid Mechanics, 2021, 927, .	1.4	5
11	Primary cilia have a length-dependent persistence length. Biomechanics and Modeling in Mechanobiology, 2020, 19, 445-460.	1.4	8
12	Simulation of Multiscale Hydrophobic Lipid Dynamics via Efficient Integral Equation Methods. Multiscale Modeling and Simulation, 2020, 18, 79-103.	0.6	4
13	Boundary conditions at a gel-fluid interface. Physical Review Fluids, 2020, 5, .	1.0	10
14	Effects of surfactant transport on electrodeformation of a viscous drop. Physical Review E, 2019, 99, 063104.	0.8	9
15	Slightly deformable Darcy drop in linear flows. Physical Review Fluids, 2019, 4, .	1.0	7
16	Hydrodynamics and rheology of a vesicle doublet suspension. Physical Review Fluids, 2019, 4, .	1.0	8
17	From electrodiffusion theory to the electrohydrodynamics of leaky dielectrics through the weak electrolyte limit. Journal of Fluid Mechanics, 2018, 855, 67-130.	1.4	25
18	Lennard-Jones type pair-potential method for coarse-grained lipid bilayer membrane simulations in LAMMPS. Computer Physics Communications, 2017, 210, 193-203.	3.0	33

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19	Long-wave dynamics of an elastic sheet lubricated by a thin liquid film on a wetting substrate. Physical Review Fluids, 2017, 2, .	1.0	7
20	Theoretical, Computational, and Experimental Investigations on Activation of Mechanosensitive Channels. Biophysical Journal, 2016, 110, 93a.	0.2	0
21	Continuum Modeling of the Gating Mechanisms of a Mechanosensitive (MS) Channel: Bacterial MS versus Mammalian MS Channels. Biophysical Journal, 2016, 110, 93a.	0.2	Ο
22	Vesicle electrohydrodynamic simulations by coupling immersed boundary and immersed interface method. Journal of Computational Physics, 2016, 317, 66-81.	1.9	24
23	Electrohydrodynamics of a viscous drop with inertia. Physical Review E, 2016, 93, 053114.	0.8	23
24	On the gating of mechanosensitive channels by fluid shear stress. Acta Mechanica Sinica/Lixue Xuebao, 2016, 32, 1012-1022.	1.5	11
25	Efficient Brownian dynamics simulation of DNA molecules with hydrodynamic interactions in linear flows. Physical Review E, 2015, 91, 063008.	0.8	2
26	An Immersed Interface Method for Axisymmetric Electrohydrodynamic Simulations in Stokes flow. Communications in Computational Physics, 2015, 18, 429-449.	0.7	10
27	The primary cilium is a self-adaptable, integrating nexus for mechanical stimuli and cellular signaling. Biology Open, 2015, 4, 1733-1738.	0.6	18
28	Gating of a mechanosensitive channel due to cellular flows. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9822-9827.	3.3	27
29	Electrohydrodynamic instability of a capacitive elastic membrane. Physics of Fluids, 2015, 27, .	1.6	6
30	Near-wall dynamics of concentrated hard-sphere suspensions: comparison of evanescent wave DLS experiments, virial approximation and simulations. Soft Matter, 2015, 11, 7316-7327.	1.2	8
31	Coupling a Mechanosensitive Channel with a Vesicle under Shear Flow. Biophysical Journal, 2015, 108, 458a.	0.2	0
32	A hybrid immersed boundary and immersed interface method for electrohydrodynamic simulations. Journal of Computational Physics, 2015, 282, 47-61.	1.9	43
33	Long-wave dynamics of an inextensible planar membrane in an electric field. Journal of Fluid Mechanics, 2014, 751, 406-431.	1.4	8
34	Equilibrium electro-deformation of a surfactant-laden viscous drop. Physics of Fluids, 2013, 25, .	1.6	35
35	Dynamics of the Primary Cilium in Shear Flow. Biophysical Journal, 2013, 104, 152a.	0.2	4
36	Equilibrium electrodeformation of a spheroidal vesicle in an ac electric field. Physical Review E, 2013, 88, 052718.	0.8	19

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37	Dynamics of the Primary Cilium in Shear Flow. Biophysical Journal, 2012, 103, 629-639.	0.2	48
38	Modeling a semiâ€flexible filament in cellular Stokes flow using regularized Stokeslets. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 2021-2034.	1.0	14
39	Dynamics of a Compound Vesicle in Shear Flow. Physical Review Letters, 2011, 106, 158103.	2.9	35
40	Dynamics of a non-spherical microcapsule with incompressible interface in shear flow. Journal of Fluid Mechanics, 2011, 678, 221-247.	1.4	66
41	Nonlinear hydrodynamic phenomena in Stokes flow regime. Physica D: Nonlinear Phenomena, 2010, 239, 1214-1224.	1.3	14
42	Dynamics of a semiflexible polar filament in Stokes flow. Physical Review E, 2010, 82, 016309.	0.8	3
43	Hydrodynamic interactions between two semiflexible inextensible filaments in Stokes flow. Physical Review E, 2009, 79, 046317.	0.8	12
44	Influence of surfactant solubility on the deformation and breakup of a bubble or capillary jet in a viscous fluid. Physics of Fluids, 2009, 21, .	1.6	19
45	Influence of insoluble surfactant on the deformation and breakup of a bubble or thread in a viscous fluid. Journal of Fluid Mechanics, 2008, 594, 307-340.	1.4	35
46	Hysteretic and chaotic dynamics of viscous drops in creeping flows with rotation. Journal of Fluid Mechanics, 2008, 607, 209-234.	1.4	17
47	Stretch-Coil Transition and Transport of Fibers in Cellular Flows. Physical Review Letters, 2007, 99, 058303.	2.9	90
48	Limits of the potential flow approach to the single-mode Rayleigh-Taylor problem. Physical Review E, 2006, 74, 066308.	0.8	70
49	Surface tension in incompressible Rayleigh–Taylor mixing flow. Journal of Turbulence, 2006, 7, N71.	0.5	24
50	Stratified Kolmogorov flow. Part 2. Journal of Fluid Mechanics, 2005, 528, 23-42.	1.4	29
51	Registration-Based Morphing of Active Contours for Segmentation of CT Scans. Mathematical Biosciences and Engineering, 2005, 2, 79-96.	1.0	32
52	Weakly nonlinear analysis of wind-driven gravity waves. Journal of Fluid Mechanics, 2004, 503, 171-200.	1.4	7
53	A comparative study of the turbulent Rayleigh–Taylor instability using high-resolution three-dimensional numerical simulations: The Alpha-Group collaboration. Physics of Fluids, 2004, 16, 1668-1693.	1.6	381
54	Induced defect nucleation and side-band instabilities in hexagons with rotation and mean flow. Physica D: Nonlinear Phenomena, 2003, 176, 107-124.	1.3	6

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55	Penta-Hepta Defect Chaos in a Model for Rotating Hexagonal Convection. Physical Review Letters, 2003, 90, 134502.	2.9	21
56	Whirling hexagons and defect chaos in hexagonal non-Boussinesq convection. New Journal of Physics, 2003, 5, 135-135.	1.2	9
57	Temperature statistics in two-dimensional stably stratified turbulence. Physical Review E, 2002, 66, 016306.	0.8	1
58	Shear instability of fluid interfaces: Stability analysis. Physical Review E, 2002, 65, 026313.	0.8	22
59	On the C/O Enrichment of Nova Ejecta. Astrophysical Journal, 2002, 562, L177-L179.	1.6	52
60	Stratified Kolmogorov flow. Journal of Fluid Mechanics, 2002, 450, 131-167.	1.4	61
61	Mean flow in hexagonal convection: stability and nonlinear dynamics. Physica D: Nonlinear Phenomena, 2002, 163, 166-183.	1.3	17
62	On the miscible Rayleigh–Taylor instability: two and three dimensions. Journal of Fluid Mechanics, 2001, 447, 377-408.	1.4	144
63	Numerical simulation of double-diffusive convection in a rectangular box. Physical Review E, 2000, 61, 2676-2694.	0.8	5
64	Flash code: studying astrophysical thermonuclear flashes. Computing in Science and Engineering, 2000, 2, 33-41.	1.2	27
65	Linear and weakly nonlinear analysis of doubly diffusive vertical slot convection. Physical Review E, 1998, 57, 5554-5563.	0.8	12
66	Linear stability analysis of doubly diffusive vertical slot convection. Physical Review E, 1998, 57, 1183-1186.	0.8	4