

Gwynn J Elfring

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

970
citations

361296

20
h-index

434063

31
g-index

39
all docs

39
docs citations

39
times ranked

605
citing authors

#	ARTICLE	IF	CITATIONS
1	Turbulent drag reduction of viscoelastic wormlike micellar gels. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2022, 301, 104724.	1.0	11
2	The morphological role of ligand inhibitors in blocking receptor- and clathrin-mediated endocytosis. <i>Soft Matter</i> , 2022, 18, 3531-3545.	1.2	2
3	Fully turbulent flows of viscoplastic fluids in a rectangular duct. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2021, 293, 104570.	1.0	11
4	Rheology of wormlike micellar gels formed by long-chained zwitterionic surfactants. <i>Journal of Rheology</i> , 2021, 65, 1065-1080.	1.3	5
5	Hydrodynamics of active particles in viscosity gradients. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	14
6	Editorial: Special issue on "Complex fluids in Biological Systems". <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2020, 275, 104175.	1.0	0
7	Editorial: Introduction to the 37th Annual Gallery of Fluid Motion (Seattle, Washington, USA, 2019). <i>Physical Review Fluids</i> , 2020, 5, .	1.0	0
8	Jeffery orbits in shear-thinning fluids. <i>Physics of Fluids</i> , 2019, 31, .	1.6	22
9	Active Particles in Viscosity Gradients. <i>Physical Review Letters</i> , 2019, 123, 158006.	2.9	53
10	A note on higher-order perturbative corrections to squirming speed in weakly viscoelastic fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2019, 270, 51-55.	1.0	9
11	Flow around a squirmer in a shear-thinning fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2019, 268, 101-110.	1.0	23
12	Dynamics of poroelastocapillary rise. <i>Journal of Fluids and Structures</i> , 2019, 85, 220-228.	1.5	6
13	Dynamics and rheology of particles in shear-thinning fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2018, 262, 107-114.	1.0	18
14	Higher-order force moments of active particles. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	16
15	Two-sphere swimmers in viscoelastic fluids. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	26
16	Maximizing propulsive thrust of a driven filament at low Reynolds number via variable flexibility. <i>Soft Matter</i> , 2017, 13, 2339-2347.	1.2	16
17	Force moments of an active particle in a complex fluid. <i>Journal of Fluid Mechanics</i> , 2017, 829, .	1.4	27
18	Rheology and flow studies of drag-reducing gravel packing fluids. <i>Rheologica Acta</i> , 2017, 56, 905-914.	1.1	4

#	ARTICLE	IF	CITATIONS
19	Propulsion via flexible flapping in granular media. <i>Physical Review E</i> , 2017, 96, 012907.	0.8	6
20	Autophoretic locomotion in weakly viscoelastic fluids at finite Péclet number. <i>Physics of Fluids</i> , 2017, 29, .	1.6	23
21	An active particle in a complex fluid. <i>Journal of Fluid Mechanics</i> , 2017, 823, 675-688.	1.4	47
22	Elastic two-sphere swimmer in Stokes flow. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	22
23	Characteristics of undulatory locomotion in granular media. <i>Physics of Fluids</i> , 2016, 28, .	1.6	9
24	Surface viscosity and Marangoni stresses at surfactant laden interfaces. <i>Journal of Fluid Mechanics</i> , 2016, 792, 712-739.	1.4	57
25	The effect of gait on swimming in viscoelastic fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 234, 8-14.	1.0	31
26	Hydrodynamic interactions of cilia on a spherical body. <i>Physical Review E</i> , 2016, 93, 033111.	0.8	17
27	Squirming through shear-thinning fluids. <i>Journal of Fluid Mechanics</i> , 2015, 784, .	1.4	80
28	A note on the reciprocal theorem for the swimming of simple bodies. <i>Physics of Fluids</i> , 2015, 27, 023101.	1.6	27
29	Theory of Locomotion Through Complex Fluids. <i>Biological and Medical Physics Series</i> , 2015, , 283-317.	0.3	28
30	Buckling instability of squeezed droplets. <i>Physics of Fluids</i> , 2012, 24, 072102.	1.6	5
31	Synchronization of Swimming Microorganisms. <i>Biophysical Journal</i> , 2012, 102, 415a.	0.2	0
32	Taylor's swimming sheet: Analysis and improvement of the perturbation series. <i>Physica D: Nonlinear Phenomena</i> , 2011, 240, 1567-1573.	1.3	51
33	Synchronization of flexible sheets. <i>Journal of Fluid Mechanics</i> , 2011, 674, 163-173.	1.4	54
34	Passive hydrodynamic synchronization of two-dimensional swimming cells. <i>Physics of Fluids</i> , 2011, 23, 011902.	1.6	47
35	Two-dimensional flagellar synchronization in viscoelastic fluids. <i>Journal of Fluid Mechanics</i> , 2010, 646, 505-515.	1.4	42
36	Hydrodynamic Phase Locking of Swimming Microorganisms. <i>Physical Review Letters</i> , 2009, 103, 088101.	2.9	109

#	ARTICLE	IF	CITATIONS
37	Thermodynamics of pore wetting and swelling in Nafion. Journal of Membrane Science, 2008, 315, 125-132.	4.1	20
38	External losses in high-bypass turbo fan air engines. International Journal of Exergy, 2008, 5, 400.	0.2	9
39	Thermodynamic considerations on the stability of water in Nafion. Journal of Membrane Science, 2007, 297, 190-198.	4.1	23