

James W Swan

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,798
citations

279487

23
h-index

288905

40
g-index

61
all docs

61
docs citations

61
times ranked

2055
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermally fluctuating, semiflexible sheets in simple shear flow. <i>Soft Matter</i> , 2022, 18, 768-782.	1.2	2
2	Unsteady and lineal translation of a sphere through a viscoelastic fluid. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	3
3	Quantifying the hydrodynamic contribution to electrical transport in non-Brownian suspensions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	5
4	Shear driven vorticity aligned flocs in a suspension of attractive rigid rods. <i>Soft Matter</i> , 2021, 17, 1232-1245.	1.2	13
5	Calculation of therapeutic antibody viscosity with coarse-grained models, hydrodynamic calculations and machine learning-based parameters. <i>MABs</i> , 2021, 13, 1907882.	2.6	26
6	Repulsive, Densely Packed Ligand-Shells Mediate Interactions between PbS Nanocrystals in Solution. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8014-8020.	1.5	4
7	Bayesian estimations of orientation distribution functions from small-angle scattering enable direct prediction of mechanical stress in anisotropic materials. <i>Physical Review Materials</i> , 2021, 5, .	0.9	8
8	The stress in a dispersion of mutually polarizable spheres. <i>Journal of Chemical Physics</i> , 2021, 155, 014903.	1.2	0
9	Medium amplitude parallel superposition (MAPS) rheology of a wormlike micellar solution. <i>Rheologica Acta</i> , 2021, 60, 729-739.	1.1	2
10	Buckling, crumpling, and tumbling of semiflexible sheets in simple shear flow. <i>Soft Matter</i> , 2021, 17, 4707-4718.	1.2	14
11	Underscreening and hidden ion structures in large scale simulations of concentrated electrolytes. <i>Journal of Chemical Physics</i> , 2021, 155, 134903.	1.2	20
12	Optical tweezer measurements of asymptotic nonlinearities in complex fluids. <i>Physical Review E</i> , 2021, 104, 064604.	0.8	3
13	Effect of Protein Surface Charge Distribution on Protein-Polyelectrolyte Complexation. <i>Biomacromolecules</i> , 2020, 21, 3026-3037.	2.6	35
14	Optimal loading for injection. <i>AIChE Journal</i> , 2020, 66, e17102.	1.8	1
15	Medium amplitude parallel superposition (MAPS) rheology. Part 2: Experimental protocols and data analysis. <i>Journal of Rheology</i> , 2020, 64, 1263-1293.	1.3	11
16	Spontaneous Electrokinetic Magnus Effect. <i>Physical Review Letters</i> , 2020, 124, 208002.	2.9	5
17	The Importance of Unbound Ligand in Nanocrystal Superlattice Formation. <i>Journal of the American Chemical Society</i> , 2020, 142, 9675-9685.	6.6	23
18	Reversible Temperature-Induced Structural Transformations in PbS Nanocrystal Superlattices. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13456-13466.	1.5	9

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19	Collective mode Brownian dynamics: A method for fast relaxation of statistical ensembles. <i>Journal of Chemical Physics</i> , 2020, 152, 094104.	1.2	1
20	Medium amplitude parallel superposition (MAPS) rheology. Part 1: Mathematical framework and theoretical examples. <i>Journal of Rheology</i> , 2020, 64, 551-579.	1.3	19
21	Colloidal Gelation through Thermally Triggered Surfactant Displacement. <i>Langmuir</i> , 2019, 35, 9464-9473.	1.6	16
22	Characterization of colloidal nanocrystal surface structure using small angle neutron scattering and efficient Bayesian parameter estimation. <i>Journal of Chemical Physics</i> , 2019, 150, 244702.	1.2	22
23	Quantification of a PbCl _x Shell on the Surface of PbS Nanocrystals. , 2019, 1, 209-216.		35
24	Evolution of structure and dynamics of thermo-reversible nanoparticle gels—A combined XPCS and rheology study. <i>Journal of Chemical Physics</i> , 2019, 151, 104902.	1.2	6
25	Fast Stokesian dynamics. <i>Journal of Fluid Mechanics</i> , 2019, 878, 544-597.	1.4	39
26	Hydrodynamics control shear-induced pattern formation in attractive suspensions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12193-12198.	3.3	53
27	Surface heterogeneity affects percolation and gelation of colloids: dynamic simulations with random patchy spheres. <i>Soft Matter</i> , 2019, 15, 5094-5108.	1.2	23
28	Colloidal gel elasticity arises from the packing of locally glassy clusters. <i>Nature Communications</i> , 2019, 10, 2237.	5.8	88
29	Markov Chain Monte Carlo Sampling for Target Analysis of Transient Absorption Spectra. <i>Journal of Physical Chemistry A</i> , 2019, 123, 3893-3902.	1.1	10
30	High-Resolution Nanoparticle Sizing with Maximum <i>A Posteriori</i> Nanoparticle Tracking Analysis. <i>ACS Nano</i> , 2019, 13, 3940-3952.	7.3	30
31	Short and Soft: Multidomain Organization, Tunable Dynamics, and Jamming in Suspensions of Grafted Colloidal Cylinders with a Small Aspect Ratio. <i>Langmuir</i> , 2019, 35, 17103-17113.	1.6	5
32	Transmutable Colloidal Crystals and Active Phase Separation via Dynamic, Directed Self-Assembly with Toggled External Fields. <i>ACS Nano</i> , 2019, 13, 764-771.	7.3	21
33	On the viscosity of adhesive hard sphere dispersions: Critical scaling and the role of rigid contacts. <i>Journal of Rheology</i> , 2019, 63, 229-245.	1.3	18
34	Rapid sampling of stochastic displacements in Brownian dynamics simulations with stresslet constraints. <i>Journal of Chemical Physics</i> , 2018, 148, 044114.	1.2	27
35	Structure and Relaxation in Solutions of Monoclonal Antibodies. <i>Journal of Physical Chemistry B</i> , 2018, 122, 2867-2880.	1.2	35
36	Normal modes of weak colloidal gels. <i>Physical Review E</i> , 2018, 97, 012608.	0.8	14

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37	Large scale anisotropies in sheared colloidal gels. <i>Journal of Rheology</i> , 2018, 62, 405-418.	1.3	32
38	Phase Separation Kinetics of Dynamically Self-Assembling Nanoparticles with Toggled Interactions. <i>Langmuir</i> , 2018, 34, 1029-1041.	1.6	13
39	In situ measurement of localization error in particle tracking microrheology. <i>Rheologica Acta</i> , 2018, 57, 793-800.	1.1	2
40	Modelling a hydrodynamic instability in freely settling colloidal gels. <i>Journal of Fluid Mechanics</i> , 2018, 856, 1014-1044.	1.4	12
41	Field-Directed Self-Assembly of Mutually Polarizable Nanoparticles. <i>Langmuir</i> , 2018, 34, 7117-7134.	1.6	28
42	Thermal processing of thermogelling nanoemulsions as a route to tune material properties. <i>Soft Matter</i> , 2018, 14, 5604-5614.	1.2	8
43	Rapid sampling of stochastic displacements in Brownian dynamics simulations. <i>Journal of Chemical Physics</i> , 2017, 146, 124116.	1.2	79
44	How Confinement-Induced Structures Alter the Contribution of Hydrodynamic and Short-Ranged Repulsion Forces to the Viscosity of Colloidal Suspensions. <i>Physical Review X</i> , 2017, 7, .	2.8	11
45	Rapid calculation of hydrodynamic and transport properties in concentrated solutions of colloidal particles and macromolecules. <i>Physics of Fluids</i> , 2016, 28, .	1.6	34
46	Dynamic, Directed Self-Assembly of Nanoparticles via Toggled Interactions. <i>ACS Nano</i> , 2016, 10, 5260-5271.	7.3	47
47	Lipid Exchange Envelope Penetration (LEEP) of Nanoparticles for Plant Engineering: A Universal Localization Mechanism. <i>Nano Letters</i> , 2016, 16, 1161-1172.	4.5	213
48	Coarsening mechanics of a colloidal suspension in toggled fields. <i>Journal of Chemical Physics</i> , 2015, 143, 074901.	1.2	7
49	The medium amplitude oscillatory shear of semi-dilute colloidal dispersions. Part I: Linear response and normal stress differences. <i>Journal of Rheology</i> , 2014, 58, 307-337.	1.3	25
50	Directed colloidal self-assembly in toggled magnetic fields. <i>Soft Matter</i> , 2014, 10, 1102-1109.	1.2	90
51	Buckling Instability of Self-Assembled Colloidal Columns. <i>Physical Review Letters</i> , 2014, 113, 138301.	2.9	8
52	Calibration of an optical tweezer microrheometer by sequential impulse response. <i>Rheologica Acta</i> , 2013, 52, 455-465.	1.1	12
53	Multi-scale kinetics of a field-directed colloidal phase transition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16023-16028.	3.3	50
54	Measuring Thermal Rupture Force Distributions from an Ensemble of Trajectories. <i>Physical Review Letters</i> , 2012, 109, 198302.	2.9	4

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55	The hydrodynamics of confined dispersions. <i>Journal of Fluid Mechanics</i> , 2011, 687, 254-299.	1.4	43
56	Modeling hydrodynamic self-propulsion with Stokesian Dynamics. Or teaching Stokesian Dynamics to swim. <i>Physics of Fluids</i> , 2011, 23, .	1.6	66
57	Anisotropic diffusion in confined colloidal dispersions: The evanescent diffusivity. <i>Journal of Chemical Physics</i> , 2011, 135, 014701.	1.2	16
58	Particle motion between parallel walls: Hydrodynamics and simulation. <i>Physics of Fluids</i> , 2010, 22, .	1.6	85
59	Dynamics of Concentrated Hard-Sphere Colloids Near a Wall. <i>Physical Review Letters</i> , 2009, 102, 068302.	2.9	73
60	On the hydrodynamics of "slip"stick™ spheres. <i>Journal of Fluid Mechanics</i> , 2008, 606, 115-132.	1.4	40
61	Simulation of hydrodynamically interacting particles near a no-slip boundary. <i>Physics of Fluids</i> , 2007, 19, .	1.6	154