

James W Swan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58
papers

1,260
citations

20
h-index

34
g-index

61
ext. papers

1,536
ext. citations

5.6
avg, IF

5.24
L-index

#	Paper	IF	Citations
58	Thermally fluctuating, semiflexible sheets in simple shear flow.. <i>Soft Matter</i> , 2022 ,	3.6	1
57	Optical tweezer measurements of asymptotic nonlinearities in complex fluids.. <i>Physical Review E</i> , 2021 , 104, 064604	2.4	1
56	Underscreening and hidden ion structures in large scale simulations of concentrated electrolytes. <i>Journal of Chemical Physics</i> , 2021 , 155, 134903	3.9	4
55	Repulsive, Densely Packed Ligand-Shells Mediate Interactions between PbS Nanocrystals in Solution. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 8014-8020	3.8	1
54	Shear driven vorticity aligned flocs in a suspension of attractive rigid rods. <i>Soft Matter</i> , 2021 , 17, 1232-1245	3.4	4
53	Calculation of therapeutic antibody viscosity with coarse-grained models, hydrodynamic calculations and machine learning-based parameters. <i>MAbs</i> , 2021 , 13, 1907882	6.6	9
52	The stress in a dispersion of mutually polarizable spheres. <i>Journal of Chemical Physics</i> , 2021 , 155, 014903	3.9	0
51	Medium amplitude parallel superposition (MAPS) rheology of a wormlike micellar solution. <i>Rheologica Acta</i> , 2021 , 60, 729	2.3	0
50	Buckling, crumpling, and tumbling of semiflexible sheets in simple shear flow. <i>Soft Matter</i> , 2021 , 17, 4707-4718	3.6	10
49	Spontaneous Electrokinetic Magnus Effect. <i>Physical Review Letters</i> , 2020 , 124, 208002	7.4	3
48	The Importance of Unbound Ligand in Nanocrystal Superlattice Formation. <i>Journal of the American Chemical Society</i> , 2020 , 142, 9675-9685	16.4	14
47	Reversible Temperature-Induced Structural Transformations in PbS Nanocrystal Superlattices. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 13456-13466	3.8	5
46	Collective mode Brownian dynamics: A method for fast relaxation of statistical ensembles. <i>Journal of Chemical Physics</i> , 2020 , 152, 094104	3.9	1
45	Medium amplitude parallel superposition (MAPS) rheology. Part 1: Mathematical framework and theoretical examples. <i>Journal of Rheology</i> , 2020 , 64, 551-579	4.1	12
44	Effect of Protein Surface Charge Distribution on Protein-Polyelectrolyte Complexation. <i>Biomacromolecules</i> , 2020 , 21, 3026-3037	6.9	14
43	Optimal loading for injection. <i>AIChE Journal</i> , 2020 , 66, e17102	3.6	1
42	Medium amplitude parallel superposition (MAPS) rheology. Part 2: Experimental protocols and data analysis. <i>Journal of Rheology</i> , 2020 , 64, 1263-1293	4.1	5

41	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	3.9	4
40	Fast Stokesian dynamics. <i>Journal of Fluid Mechanics</i> , 2019 , 878, 544-597	3.7	20
39	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	11.5	31
38	Surface heterogeneity affects percolation and gelation of colloids: dynamic simulations with random patchy spheres. <i>Soft Matter</i> , 2019 , 15, 5094-5108	3.6	15
37	Colloidal gel elasticity arises from the packing of locally glassy clusters. <i>Nature Communications</i> , 2019 , 10, 2237	17.4	45
36	Markov Chain Monte Carlo Sampling for Target Analysis of Transient Absorption Spectra. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 3893-3902	2.8	5
35	High-Resolution Nanoparticle Sizing with Maximum A Posteriori Nanoparticle Tracking Analysis. <i>ACS Nano</i> , 2019 , 13, 3940-3952	16.7	15
34	Colloidal Gelation through Thermally Triggered Surfactant Displacement. <i>Langmuir</i> , 2019 , 35, 9464-9473	4	12
33	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	3.9	16
32	Quantification of a PbCl _x Shell on the Surface of PbS Nanocrystals 2019 , 1, 209-216		23
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	4	5
30	Transmutable Colloidal Crystals and Active Phase Separation via Dynamic, Directed Self-Assembly with Toggled External Fields. <i>ACS Nano</i> , 2019 , 13, 764-771	16.7	12
29	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	4.1	13
28	Rapid sampling of stochastic displacements in Brownian dynamics simulations with stresslet constraints. <i>Journal of Chemical Physics</i> , 2018 , 148, 044114	3.9	15
27	Structure and Relaxation in Solutions of Monoclonal Antibodies. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 2867-2880	3.4	23
26	Normal modes of weak colloidal gels. <i>Physical Review E</i> , 2018 , 97, 012608	2.4	11
25	Large scale anisotropies in sheared colloidal gels. <i>Journal of Rheology</i> , 2018 , 62, 405-418	4.1	20
24	Phase Separation Kinetics of Dynamically Self-Assembling Nanoparticles with Toggled Interactions. <i>Langmuir</i> , 2018 , 34, 1029-1041	4	12

23	Thermal processing of thermogelling nanoemulsions as a route to tune material properties. <i>Soft Matter</i> , 2018 , 14, 5604-5614	3.6	5
22	In situ measurement of localization error in particle tracking microrheology. <i>Rheologica Acta</i> , 2018 , 57, 793-800	2.3	2
21	Modelling a hydrodynamic instability in freely settling colloidal gels. <i>Journal of Fluid Mechanics</i> , 2018 , 856, 1014-1044	3.7	7
20	Field-Directed Self-Assembly of Mutually Polarizable Nanoparticles. <i>Langmuir</i> , 2018 , 34, 7117-7134	4	20
19	Rapid sampling of stochastic displacements in Brownian dynamics simulations. <i>Journal of Chemical Physics</i> , 2017 , 146, 124116	3.9	57
18	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,	9.1	8
17	Lipid Exchange Envelope Penetration (LEEP) of Nanoparticles for Plant Engineering: A Universal Localization Mechanism. <i>Nano Letters</i> , 2016 , 16, 1161-72	11.5	139
16	Rapid calculation of hydrodynamic and transport properties in concentrated solutions of colloidal particles and macromolecules. <i>Physics of Fluids</i> , 2016 , 28, 011902	4.4	28
15	Dynamic, Directed Self-Assembly of Nanoparticles via Toggled Interactions. <i>ACS Nano</i> , 2016 , 10, 5260-7116.7	11.6	37
14	Coarsening mechanics of a colloidal suspension in toggled fields. <i>Journal of Chemical Physics</i> , 2015 , 143, 074901	3.9	7
13	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	4.1	21
12	Directed colloidal self-assembly in toggled magnetic fields. <i>Soft Matter</i> , 2014 , 10, 1102-9	3.6	73
11	Buckling instability of self-assembled colloidal columns. <i>Physical Review Letters</i> , 2014 , 113, 138301	7.4	7
10	Calibration of an optical tweezer microrheometer by sequential impulse response. <i>Rheologica Acta</i> , 2013 , 52, 455-465	2.3	10
9	Measuring thermal rupture force distributions from an ensemble of trajectories. <i>Physical Review Letters</i> , 2012 , 109, 198302	7.4	4
8	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, 16023-8	11.5	44
7	The hydrodynamics of confined dispersions. <i>Journal of Fluid Mechanics</i> , 2011 , 687, 254-299	3.7	35
6	Modeling hydrodynamic self-propulsion with Stokesian Dynamics. Or teaching Stokesian Dynamics to swim. <i>Physics of Fluids</i> , 2011 , 23, 071901	4.4	53

- 5 Anisotropic diffusion in confined colloidal dispersions: the evanescent diffusivity. *Journal of Chemical Physics*, **2011**, 135, 014701 3.9 15
- 4 Particle motion between parallel walls: Hydrodynamics and simulation. *Physics of Fluids*, **2010**, 22, 103304.4 68
- 3 Dynamics of concentrated hard-sphere colloids near a wall. *Physical Review Letters*, **2009**, 102, 068302 7.4 69
- 2 On the hydrodynamics of slipstickerspheres. *Journal of Fluid Mechanics*, **2008**, 606, 115-132 3.7 37
- 1 Simulation of hydrodynamically interacting particles near a no-slip boundary. *Physics of Fluids*, **2007**, 19, 113306 4.4 130