Andrew B Schofield

List of Publications by Year
in descending order

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89 papers	8,568 citations	87843 38 h-index	48277 88 g-index
90 all docs	90 docs citations	90 times ranked	6550 citing authors

#	Article	IF	Citations
1	Bicontinuous Soft Solids with a Gradient in Channel Size. Advanced Materials Interfaces, 2022, 9, .	1.9	2
2	Flow decline during pore clogging by colloidal particles. Physical Review Fluids, 2022, 7, .	1.0	9
3	Versatile strategy for homogeneous drying patterns of dispersed particles. Nature Communications, 2022, 13, .	5.8	16
4	Yielding and resolidification of colloidal gels under constant stress. Journal of Physics Condensed Matter, 2021, 33, 284002.	0.7	8
5	Complex High-Internal Phase Emulsions that can Form Interfacial Films with Tunable Morphologies. Langmuir, 2021, 37, 9802-9808.	1.6	2
6	Stress versus strain controlled shear: Yielding and relaxation of concentrated colloidal suspensions. Journal of Rheology, 2021, 65, 1219-1233.	1.3	6
7	The yielding of defect-entangled dispersions in a nematic solvent. Journal of Rheology, 2021, 65, 1297-1310.	1.3	0
8	Dynamics of progressive pore clogging by colloidal aggregates. Soft Matter, 2020, 16, 9899-9907.	1.2	25
9	Interaction between nearly hard colloidal spheres at an oil-water interface. Physical Review Research, 2020, 2, .	1.3	8
10	Precise Self-Positioning of Colloidal Particles on Liquid Emulsion Droplets. Langmuir, 2019, 35, 13053-13061.	1.6	10
11	Periodic buckling and grain boundary slips in a colloidal model of solid friction. Soft Matter, 2019, 15, 5227-5233.	1.2	4
12	Particle-stabilized Janus emulsions that exhibit pH-tunable stability. Chemical Communications, 2019, 55, 5773-5776.	2.2	11
13	Dynamics of pore fouling by colloidal particles at the particle level. Journal of Membrane Science, 2019, 573, 411-424.	4.1	28
14	Bacteria as living patchy colloids: Phenotypic heterogeneity in surface adhesion. Science Advances, 2018, 4, eaao1170.	4.7	48
15	Clogging transition induced by self filtration in a slit pore. Soft Matter, 2017, 13, 2054-2066.	1.2	24
16	Interfacial Rheology of Sterically Stabilized Colloids at Liquid Interfaces and Its Effect on the Stability of Pickering Emulsions. Langmuir, 2017, 33, 4107-4118.	1.6	59
17	Axial Confocal Tomography of Capillary-Contained Colloidal Structures. Langmuir, 2017, 33, 13343-13349.	1.6	2
18	Photo-Crosslinkable Colloids: From Fluid Structure and Dynamics of Spheres to Suspensions of Ellipsoids. Gels, 2016, 2, 29.	2.1	8

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19	Dipolar colloids in apolar media: direct microscopy of two-dimensional suspensions. Scientific Reports, 2016, 6, 28578.	1.6	9
20	Start-up shear of concentrated colloidal hard spheres: Stresses, dynamics, and structure. Journal of Rheology, 2016, 60, 603-623.	1.3	50
21	Compressing a spinodal surface at fixed area: bijels in a centrifuge. Soft Matter, 2016, 12, 4375-4383.	1.2	16
22	Direct Imaging of Vibrations in Colloidal Crystals: In Equilibrium and in a Steady Drift. Journal of Physical Chemistry C, 2016, 120, 8392-8398.	1.5	2
23	Structural Transition in a Fluid of Spheroids: A Low-Density Vestige of Jamming. Physical Review Letters, 2016, 116, 098001.	2.9	10
24	The secret life of Pickering emulsions: particle exchange revealed using two colours of particle. Scientific Reports, 2016, 6, 31401.	1.6	63
25	Particle-size effects in the formation of bicontinuous Pickering emulsions. Physical Review E, 2015, 92, 032308.	0.8	37
26	Crystallization and reentrant melting of charged colloids in nonpolar solvents. Physical Review E, 2015, 91, 030301.	0.8	32
27	Different mechanisms for dynamical arrest in largely asymmetric binary mixtures. Physical Review E, 2015, 91, 032308.	0.8	33
28	Heterogeneous crystallization of hard and soft spheres near flat and curved walls. European Physical Journal: Special Topics, 2014, 223, 439-454.	1.2	27
29	Inter-particle correlations in a hard-sphere colloidal suspension with polymer additives investigated by Spin Echo Small Angle Neutron Scattering (SESANS). Soft Matter, 2014, 10, 3016-3026.	1.2	26
30	Eliminating cracking during drying. European Physical Journal E, 2013, 36, 28.	0.7	15
31	Squeezing particle-stabilized emulsions into biliquid foams â€“ equation of state. Soft Matter, 2013, 9, 7757.	1.2	15
32	Dense colloidal fluids form denser amorphous sediments. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5769-5773.	3.3	25
33	Structure and interactions in fluids of prolate colloidal ellipsoids: Comparison between experiment, theory, and simulation. Journal of Chemical Physics, 2012, 137, 184505.	1.2	8
34	Understanding the Low-Frequency Quasilocalized Modes in Disordered Colloidal Systems. Physical Review Letters, 2012, 108, 095501.	2.9	43
35	Characterizing Concentrated, Multiply Scattering, and Actively Driven Fluorescent Systems with Confocal Differential Dynamic Microscopy. Physical Review Letters, 2012, 108, 218103.	2.9	90
36	Relationship between cooperative motion and the confinement length scale in confined colloidal liquids. Soft Matter, 2012, 8, 814-818.	1.2	12

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37	Non-crystalline colloidal clusters in two dimensions: size distributions and shapes. Soft Matter, 2012, 8, 2924.	1.2	8
38	Transient dynamics in dense colloidal suspensions under shear: shear rate dependence. Journal of Physics Condensed Matter, 2012, 24, 464104.	0.7	31
39	Direct experimental evidence of growing dynamic length scales in confined colloidal liquids. Physical Review E, 2011, 83, 030502.	0.8	19
40	Synthesis and Directed Self-Assembly of Patterned Anisometric Polymeric Particles. Journal of the American Chemical Society, 2011, 133, 392-395.	6.6	109
41	How do (fluorescent) surfactants affect particle-stabilized emulsions?. Soft Matter, 2011, 7, 7965.	1.2	32
42	Hindered Coarsening of a Phase-Separating Microemulsion Due to Dispersed Colloidal Particles. Langmuir, 2011, 27, 13436-13443.	1.6	2
43	A Self-Quenched Defect Glass in a Colloid-Nematic Liquid Crystal Composite. Science, 2011, 334, 79-83.	6.0	139
44	Fluid Suspensions of Colloidal Ellipsoids: Direct Structural Measurements. Physical Review Letters, 2011, 107, 238301.	2.9	20
45	Novel, Robust, and Versatile Bijels of Nitromethane, Ethanediol, and Colloidal Silica: Capsules, Subâ€Tenâ€Micrometer Domains, and Mechanical Properties. Advanced Functional Materials, 2011, 21, 2020-2027.	7.8	80
46	Bijel Capsules: Novel, Robust, and Versatile Bijels of Nitromethane, Ethanediol, and Colloidal Silica: Capsules, Sub-Ten-Micrometer Domains, and Mechanical Properties (Adv. Funct. Mater. 11/2011). Advanced Functional Materials, 2011, 21, 1949-1949.	7.8	3
47	Inversion of particle-stabilized emulsions of partially miscible liquids by mild drying of modified silica particles. Journal of Colloid and Interface Science, 2011, 359, 126-135.	5.0	57
48	Orders-of-magnitude performance increases in GPU-accelerated correlation of images from the International Space Station. Journal of Real-Time Image Processing, 2010, 5, 179-193.	2.2	27
49	Drying of Complex Suspensions. Physical Review Letters, 2010, 104, 128303.	2.9	18
50	Arrested fluid-fluid phase separation in depletion systems: Implications of the characteristic length on gel formation and rheology. Journal of Rheology, 2010, 54, 421-438.	1.3	50
51	Quantitative Imaging of Concentrated Suspensions Under Flow. Advances in Polymer Science, 2010, , 163-202.	0.4	11
52	Probing the Equilibrium Dynamics of Colloidal Hard Spheres above the Mode-Coupling Glass Transition. Physical Review Letters, 2009, 102, 085703.	2.9	300
53	Structure, dynamics, and rheology of colloid-polymer mixtures: From liquids to gels. Journal of Chemical Physics, 2009, 130, 134907.	1.2	134
54	Dynamic light scattering measurements in the activated regime of dense colloidal hard spheres. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P07015.	0.9	50

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55	Passive and Active Microrheology of Hard-sphere Colloids. Journal of Physical Chemistry B, 2009, 113, 3806-3812.	1.2	88
56	Particle dynamics in colloidal suspensions above and below the glass-liquid re-entrance transition. Europhysics Letters, 2009, 86, 58001.	0.7	17
57	Gelation of particles with short-range attraction. Nature, 2008, 453, 499-503.	13.7	811
58	Effects of shear induced crystallization on the rheology and ageing of hard sphere glasses. Soft Matter, 2008, 4, 2008.	1.2	90
59	The effect of curvature and topology on membrane hydrodynamics. Europhysics Letters, 2008, 84, 48001.	0.7	26
60	Dynamics of Drying in 3D Porous Media. Physical Review Letters, 2008, 101, 094502.	2.9	95
61	Influence of particle composition and thermal cycling on bijel formation. Journal of Physics Condensed Matter, 2008, 20, 494223.	0.7	21
62	Slow dynamics and aging in colloidal gels studied by x-ray photon correlation spectroscopy. Physical Review E, 2007, 76, 010401.	0.8	94
63	Noncentral Forces in Crystals of Charged Colloids. Physical Review Letters, 2007, 98, 038301.	2.9	50
64	Spinodal Decomposition in a Model Colloid-Polymer Mixture in Microgravity. Physical Review Letters, 2007, 99, 205701.	2.9	81
65	Three-Dimensional Imaging of Colloidal Glasses under Steady Shear. Physical Review Letters, 2007, 99, 028301.	2.9	209
66	Emulsification of Partially Miscible Liquids Using Colloidal Particles:Â Nonspherical and Extended Domain Structures. Langmuir, 2007, 23, 5984-5994.	1.6	73
67	Hypersonic acoustic excitations in binary colloidal crystals: Big versus small hard sphere control. Journal of Chemical Physics, 2007, 126, 014707.	1.2	18
68	Bicontinuous emulsions stabilized solely by colloidal particles. Nature Materials, 2007, 6, 966-971.	13.3	389
69	Stable Jets of Viscoelastic Fluids and Self-Assembled Cylindrical Capsules by Hydrodynamic Focusing. Langmuir, 2006, 22, 9052-9056.	1.6	47
70	Fluids of Clusters in Attractive Colloids. Physical Review Letters, 2006, 96, 028306.	2.9	200
71	Slip, Yield, and Bands in Colloidal Crystals under Oscillatory Shear. Physical Review Letters, 2006, 97, 215502.	2.9	59
72	Colloid-stabilized emulsions: behaviour as the interfacial tension is reduced. Journal of Physics Condensed Matter, 2005, 17, S3433-S3438.	0.7	26

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73	Stability of the binary colloidal crystalsAB2andAB13. Physical Review E, 2005, 72, 031407.	0.8	60
74	Formation of Self-Supporting Reversible Cellular Networks in Suspensions of Colloids and Liquid Crystals. Langmuir, 2005, 21, 4921-4930.	1.6	31
75	Phonons in suspensions of hard sphere colloids: Volume fraction dependence. Journal of Chemical Physics, 2004, 121, 7849.	1.2	8
76	Local order in a supercooled colloidal fluid observed by confocal microscopy. Journal of Physics Condensed Matter, 2003, 15, S375-S380.	0.7	49
77	Structural aging of crystals of hard-sphere colloids. Physical Review E, 2002, 66, 021408.	0.8	58
78	Multiple Glassy States in a Simple Model System. Science, 2002, 296, 104-106.	6.0	703
79	Partial structure factors in star polymer/colloid mixtures. Applied Physics A: Materials Science and Processing, 2002, 74, s355-s357.	1.1	8
80	Real-Space Imaging of Nucleation and Growth in Colloidal Crystallization. Science, 2001, 292, 258-262.	6.0	925
81	Binary hard-sphere crystals with the cesium chloride structure. Physical Review E, 2001, 64, 051403.	0.8	52
82	Phase separation in star-polymerâ€“colloid mixtures. Physical Review E, 2001, 64, 010401.	0.8	39
83	Beyond simple depletion: phase behaviour of colloidâ€“star polymer mixtures. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2001, 359, 897-907.	1.6	14
84	Glasslike Kinetic Arrest at the Colloidal-Gelation Transition. Physical Review Letters, 2001, 86, 6042-6045.	2.9	339
85	Entropically Driven Colloidal Crystallization on Patterned Surfaces. Physical Review Letters, 2000, 85, 1770-1773.	2.9	268
86	Three-Dimensional Direct Imaging of Structural Relaxation Near the Colloidal Glass Transition. Science, 2000, 287, 627-631.	6.0	1,608
87	SURFACE TENSION, STICKINESS AND ENGULFMENT. Journal of Dispersion Science and Technology, 1998, 19, 1151-1162.	1.3	5
88	Preparation of core-shell polymer colloid particles by encapsulation. Colloid and Polymer Science, 1997, 275, 274-283.	1.0	105
89	Preparation of composite latex particles by engulfment. Colloid and Polymer Science, 1996, 274, 763-771.	1.0	29