

Thomas G Mason

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6156179/publications.pdf>

Version: 2024-02-01

78
papers

4,434
citations

201385

27
h-index

102304

66
g-index

80
all docs

80
docs citations

80
times ranked

4704
citing authors

#	ARTICLE	IF	CITATIONS
1	Curvature-assisted self-assembly of Brownian squares on cylindrical surfaces. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 863-870.	5.0	5
2	Self-motion and heterogeneous droplet dynamics in moderately attractive dense emulsions. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 175101.	0.7	2
3	Brownian lithographic polymers of steric lock-and-key colloidal linkages. <i>Science Advances</i> , 2021, 7, eabg3678.	4.7	2
4	Phase behavior of rotationally asymmetric Brownian kites containing 90° internal angles*. <i>Chinese Physics B</i> , 2021, 30, 124701.	0.7	1
5	Depletion torques between anisotropic colloidal particles. <i>Journal of Chemical Physics</i> , 2021, 155, 144903.	1.2	2
6	Emergent tetratic order in crowded systems of rotationally asymmetric hard kite particles. <i>Nature Communications</i> , 2020, 11, 2064.	5.8	19
7	Diffusing wave microrheology of strongly attractive dense emulsions. <i>Physical Review E</i> , 2020, 102, 062610.	0.8	6
8	Long-wavelength fluctuations and anomalous dynamics in 2-dimensional liquids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22977-22982.	3.3	18
9	Band-collision gel electrophoresis. <i>Nature Communications</i> , 2019, 10, 3631.	5.8	10
10	Diffusing wave microrheology of highly scattering concentrated monodisperse emulsions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7766-7771.	3.3	23
11	Phase behavior of two-dimensional Brownian systems of corner-rounded hexagons. <i>Physical Review Materials</i> , 2019, 3, .	0.9	14
12	Dynamics in two-dimensional glassy systems of crowded Penrose kites. <i>Physical Review Materials</i> , 2019, 3, .	0.9	7
13	Influence of ionic constituents and electrical conductivity on the propagation of charged nanoscale objects in passivated gel electrophoresis. <i>Electrophoresis</i> , 2018, 39, 394-405.	1.3	6
14	Vibrational Modes and Dynamic Heterogeneity in a Near-Equilibrium 2D Glass of Colloidal Kites. <i>Physical Review Letters</i> , 2018, 121, 228003.	2.9	8
15	A Brownian quasi-crystal of pre-assembled colloidal Penrose tiles. <i>Nature</i> , 2018, 561, 94-99.	13.7	24
16	Surfactant Partitioning in Nanoemulsions. <i>Langmuir</i> , 2018, 34, 10309-10320.	1.6	5
17	Assembly of colloidal particles in solution. <i>Reports on Progress in Physics</i> , 2018, 81, 126601.	8.1	51
18	Microscopic signatures of yielding in concentrated nanoemulsions under large-amplitude oscillatory shear. <i>Physical Review Materials</i> , 2018, 2, .	0.9	19

#	ARTICLE	IF	CITATIONS
19	Dimer crystallization of chiral proteoids. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7167-7175.	1.3	8
20	The liquid-glass-jamming transition in disordered ionic nanoemulsions. <i>Scientific Reports</i> , 2017, 7, 13879.	1.6	13
21	Advances and challenges in the rheology of concentrated emulsions and nanoemulsions. <i>Advances in Colloid and Interface Science</i> , 2017, 247, 397-412.	7.0	81
22	Treatment of Acidified Blood Using Reduced Osmolarity Mixed-Base Solutions. <i>Frontiers in Physiology</i> , 2016, 7, 625.	1.3	3
23	Lock-and-key dimerization in dense Brownian systems of hard annular sector particles. <i>Physical Review E</i> , 2016, 94, 022124.	0.8	7
24	Dynamical and structural signatures of the glass transition in emulsions. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 094003.	0.9	20
25	Structure and Conductivity of Semiconducting Polymer Hydrogels. <i>Journal of Physical Chemistry B</i> , 2016, 120, 6215-6224.	1.2	14
26	Local collective motion analysis for multi-probe dynamic imaging and microrheology. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 305201.	0.7	5
27	Entropic, electrostatic, and interfacial regimes in concentrated disordered ionic emulsions. <i>Rheologica Acta</i> , 2016, 55, 683-697.	1.1	19
28	The physical origins of transit time measurements for rapid, single cell mechanotyping. <i>Lab on A Chip</i> , 2016, 16, 3330-3339.	3.1	61
29	Separating nanoparticles by surface charge group using pH-controlled passivated gel electrophoresis. <i>Soft Materials</i> , 2016, 14, 204-209.	0.8	10
30	Propagation and Separation of Charged Colloids by Cylindrical Passivated Gel Electrophoresis. <i>Journal of Physical Chemistry B</i> , 2016, 120, 6160-6165.	1.2	3
31	Colloidal Lock-and-Key Dimerization Reactions of Hard Annular Sector Particles Controlled by Osmotic Pressure. <i>Journal of the American Chemical Society</i> , 2015, 137, 15308-15314.	6.6	22
32	Structure of marginally jammed polydisperse packings of frictionless spheres. <i>Physical Review E</i> , 2015, 91, 032302.	0.8	16
33	Shape-designed frustration by local polymorphism in a near-equilibrium colloidal glass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12063-12068.	3.3	36
34	Self-organized chiral colloidal crystals of Brownian square crosses. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 152101.	0.7	12
35	Random walks of colloidal probes in viscoelastic materials. <i>Physical Review E</i> , 2014, 89, 042309.	0.8	11
36	The jamming elasticity of emulsions stabilized by ionic surfactants. <i>Soft Matter</i> , 2014, 10, 5040-5044.	1.2	25

#	ARTICLE	IF	CITATIONS
37	Self-limiting droplet fusion in ionic emulsions. <i>Soft Matter</i> , 2014, 10, 4662.	1.2	21
38	Crossover between entropic and interfacial elasticity and osmotic pressure in uniform disordered emulsions. <i>Soft Matter</i> , 2014, 10, 7109-7116.	1.2	26
39	Entropic chiral symmetry breaking in self-organized two-dimensional colloidal crystals. <i>Soft Matter</i> , 2014, 10, 4471.	1.2	7
40	Nanoparticle size distributions measured by optical adaptive-deconvolution passivated-gel electrophoresis. <i>Journal of Colloid and Interface Science</i> , 2014, 435, 67-74.	5.0	19
41	Passivated gel electrophoresis of charged nanospheres by light-scattering video tracking. <i>Journal of Colloid and Interface Science</i> , 2014, 428, 199-207.	5.0	12
42	Star colloids in nematic liquid crystals. <i>Soft Matter</i> , 2013, 9, 7843.	1.2	17
43	Cerberus Nanoemulsions Produced by Multidroplet Flow-Induced Fusion. <i>Langmuir</i> , 2013, 29, 15787-15793.	1.6	22
44	Reply to "Comment on "Three-dimensional imaging of a phase object from a single sample orientation using an optical laser"™". <i>Physical Review B</i> , 2012, 86, .	1.1	0
45	Twinning of Rhombic Colloidal Crystals. <i>Journal of the American Chemical Society</i> , 2012, 134, 18125-18131.	6.6	32
46	Nanoinclusions in Cryogenically Quenched Nanoemulsions. <i>Langmuir</i> , 2012, 28, 12015-12021.	1.6	6
47	Interacting viscous instabilities in microfluidic systems. <i>Soft Matter</i> , 2012, 8, 10573.	1.2	27
48	Optically probing nanoemulsion compositions. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2455.	1.3	16
49	Advanced Nanoemulsions. <i>Annual Review of Physical Chemistry</i> , 2012, 63, 493-518.	4.8	202
50	Local chiral symmetry breaking in triatic liquid crystals. <i>Nature Communications</i> , 2012, 3, 801.	5.8	67
51	Shear-Induced Disruption of Dense Nanoemulsion Gels. <i>Langmuir</i> , 2011, 27, 5204-5210.	1.6	37
52	Three-dimensional imaging of a phase object from a single sample orientation using an optical laser. <i>Physical Review B</i> , 2011, 84, .	1.1	12
53	Rheology of attractive emulsions. <i>Physical Review E</i> , 2011, 84, 041404.	0.8	112
54	Entropic crystal-crystal transitions of Brownian squares. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 2684-2687.	3.3	134

#	ARTICLE	IF	CITATIONS
55	Tensorial generalized Stokes-Einstein relation for anisotropic probe microrheology. <i>Rheologica Acta</i> , 2010, 49, 1165-1177.	1.1	17
56	Fluid Mechanics of Microrheology. <i>Annual Review of Fluid Mechanics</i> , 2010, 42, 413-438.	10.8	553
57	Time-Dependent Nanoemulsion Droplet Size Reduction By Evaporative Ripening. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3349-3353.	2.1	30
58	Frustrated Rotator Crystals and Glasses of Brownian Pentagons. <i>Physical Review Letters</i> , 2009, 103, 208302.	2.9	61
59	Shape-Controlled Colloidal Interactions in Nematic Liquid Crystals. <i>Science</i> , 2009, 326, 1083-1086.	6.0	289
60	Deformation, restructuring, and un-jamming of concentrated droplets in large-amplitude oscillatory shear flows. <i>Soft Matter</i> , 2009, 5, 2208.	1.2	12
61	Mesoscale structure of diffusion-limited aggregates of colloidal rods and disks. <i>Soft Matter</i> , 2009, 5, 3639.	1.2	26
62	Curvature Dependence of Viral Protein Structures on Encapsidated Nanoemulsion Droplets. <i>ACS Nano</i> , 2008, 2, 281-286.	7.3	70
63	Transmission of Visible and Ultraviolet Light through Charge-Stabilized Nanoemulsions. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12669-12676.	1.5	25
64	Suppressing and Enhancing Depletion Attractions between Surfaces Roughened by Asperities. <i>Physical Review Letters</i> , 2008, 101, 148301.	2.9	44
65	Capillary threads and viscous droplets in square microchannels. <i>Physics of Fluids</i> , 2008, 20, .	1.6	316
66	Well-Ordered Deposition Particle Templating: Rapid Mass Production of LithoParticles Without Mechanical Imprinting. <i>Soft Materials</i> , 2007, 5, 13-31.	0.8	0
67	Effects of cytoskeletal disruption on transport, structure, and rheology within mammalian cells. <i>Physics of Fluids</i> , 2007, 19, 103102.	1.6	26
68	Slippery diffusion-limited aggregation. <i>Physical Review E</i> , 2007, 75, 011406.	0.8	33
69	Irreversible shear-induced vitrification of droplets into elastic nanoemulsions by extreme rupturing. <i>Physical Review E</i> , 2007, 75, 041407.	0.8	59
70	Pillar-Ordered Deposition Particle Templating: A High-Throughput Synthetic Route for Producing LithoParticles. <i>Soft Materials</i> , 2007, 5, 1-11.	0.8	1
71	Directing Colloidal Self-Assembly through Roughness-Controlled Depletion Attractions. <i>Physical Review Letters</i> , 2007, 99, 268301.	2.9	136
72	Colloidal Alphabet Soup: Monodisperse Dispersions of Shape-Designed LithoParticles. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4477-4480.	1.5	160

#	ARTICLE	IF	CITATIONS
73	Simulations of complex particle transport in heterogeneous active liquids. <i>Microfluidics and Nanofluidics</i> , 2007, 3, 227-237.	1.0	20
74	Bio-Microrheology: A Frontier in Microrheology. <i>Biophysical Journal</i> , 2006, 91, 4296-4305.	0.2	173
75	Effective Structure Factor of Osmotically Deformed Nanoemulsions. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22097-22102.	1.2	40
76	Formation of Concentrated Nanoemulsions by Extreme Shear. <i>Soft Materials</i> , 2004, 2, 109-123.	0.8	171
77	Estimating the viscoelastic moduli of complex fluids using the generalized Stokes-Einstein equation. <i>Rheologica Acta</i> , 2000, 39, 371-378.	1.1	613
78	Diffusing Wave Spectroscopy Microrheology of Actin Filament Networks. <i>Biophysical Journal</i> , 1999, 76, 1063-1071.	0.2	187