

Stefan Egelhaaf

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83
papers

3,638
citations

31
h-index

59
g-index

87
ext. papers

3,987
ext. citations

4.5
avg, IF

5.17
L-index

#	Paper	IF	Citations
83	Multiple glassy states in a simple model system. <i>Science</i> , 2002 , 296, 104-6	33.3	646
82	Yielding behavior of repulsion- and attraction-dominated colloidal glasses. <i>Journal of Rheology</i> , 2008 , 52, 649-676	4.1	223
81	Glasses in hard spheres with short-range attraction. <i>Physical Review E</i> , 2004 , 69, 011503	2.4	191
80	Yielding of colloidal glasses. <i>Europhysics Letters</i> , 2006 , 75, 624-630	1.6	147
79	Nonlinear rheology of colloidal gels with intermediate volume fraction. <i>Journal of Rheology</i> , 2011 , 55, 673-706	4.1	122
78	Yielding of hard-sphere glasses during start-up shear. <i>Physical Review Letters</i> , 2012 , 108, 098303	7.4	121
77	Small-Angle Neutron Scattering (SANS) Study of Vesicles and Lamellar Sheets Formed from Mixtures of an Anionic and a Cationic Surfactant. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 9888-9897	3.4	118
76	Structure, dynamics, and rheology of colloid-polymer mixtures: from liquids to gels. <i>Journal of Chemical Physics</i> , 2009 , 130, 134907	3.9	116
75	From equilibrium to steady state: the transient dynamics of colloidal liquids under shear. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 404210	1.8	94
74	Confocal microscopy of colloidal particles: towards reliable, optimum coordinates. <i>Advances in Colloid and Interface Science</i> , 2008 , 136, 65-92	14.3	92
73	Anomalous dynamics of intruders in a crowded environment of mobile obstacles. <i>Nature Communications</i> , 2016 , 7, 11133	17.4	88
72	Residual stresses in glasses. <i>Physical Review Letters</i> , 2013 , 110, 215701	7.4	86
71	Tension and stiffness of the hard sphere crystal-fluid interface. <i>Physical Review Letters</i> , 2012 , 108, 226101	7.4	74
70	Creep and flow of glasses: strain response linked to the spatial distribution of dynamical heterogeneities. <i>Scientific Reports</i> , 2015 , 5, 11884	4.9	68
69	Yielding and crystallization of colloidal gels under oscillatory shear. <i>Physical Review E</i> , 2007 , 76, 041402	2.4	62
68	Colloids in one dimensional random energy landscapes. <i>Soft Matter</i> , 2012 , 8, 2714	3.6	61
67	Colloids in light fields: Particle dynamics in random and periodic energy landscapes. <i>European Physical Journal: Special Topics</i> , 2013 , 222, 2995-3009	2.3	57

66	Mode-selective dynamic light scattering: theory versus experimental realization. <i>Applied Optics</i> , 1995 , 34, 3546-53	1.7	56
65	Crystallization seeds favour crystallization only during initial growth. <i>Nature Communications</i> , 2015 , 6, 7110	17.4	53
64	Non-equilibrium behavior of sticky colloidal particles: beads, clusters and gels. <i>European Physical Journal E</i> , 2005 , 16, 77-80	1.5	51
63	Yielding of binary colloidal glasses. <i>Soft Matter</i> , 2013 , 9, 4524	3.6	49
62	Start-up shear of concentrated colloidal hard spheres: Stresses, dynamics, and structure. <i>Journal of Rheology</i> , 2016 , 60, 603-623	4.1	48
61	Heterogeneous crystallization of hard-sphere colloids near a wall. <i>Soft Matter</i> , 2011 , 7, 8050	3.6	47
60	Extended law of corresponding states for protein solutions. <i>Journal of Chemical Physics</i> , 2015 , 142, 174905	3.5	45
59	Particle dynamics in two-dimensional random-energy landscapes: experiments and simulations. <i>Physical Review E</i> , 2013 , 88, 022125	2.4	44
58	Protein crystallization: scaling of charge and salt concentration in lysozyme solutions. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, L569-L574	1.8	44
57	Dynamics of dilute colloidal suspensions in modulated potentials. <i>Soft Matter</i> , 2011 , 7, 2064-2075	3.6	43
56	Long-Lived Neighbors Determine the Rheological Response of Glasses. <i>Physical Review Letters</i> , 2017 , 118, 018002	7.4	41
55	Directed percolation identified as equilibrium pre-transition towards non-equilibrium arrested gel states. <i>Nature Communications</i> , 2016 , 7, 11817	17.4	41
54	Adhesion promotes phase separation in mixed-lipid membranes. <i>Europhysics Letters</i> , 2008 , 84, 48003	1.6	39
53	Protein phase behavior and crystallization: effect of glycerol. <i>Journal of Chemical Physics</i> , 2007 , 127, 125102	3.9	38
52	Effect of glycerol and dimethyl sulfoxide on the phase behavior of lysozyme: theory and experiments. <i>Journal of Chemical Physics</i> , 2012 , 136, 015102	3.9	30
51	Colloidal suspensions in modulated light fields. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 404220	1.8	30
50	Plastic rearrangements in colloidal gels investigated by LAOS and LS-Echo. <i>Journal of Rheology</i> , 2014 , 58, 1395-1417	4.1	29
49	Transient dynamics in dense colloidal suspensions under shear: shear rate dependence. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 464104	1.8	29

48	A fiber-optics-based light scattering instrument for time-resolved simultaneous static and dynamic measurements. <i>Review of Scientific Instruments</i> , 1996 , 67, 540-545	1.7	29
47	Different mechanisms for dynamical arrest in largely asymmetric binary mixtures. <i>Physical Review E</i> , 2015 , 91, 032308	2.4	28
46	Brownian particles on rough substrates: relation between intermediate subdiffusion and asymptotic long-time diffusion. <i>Physical Review E</i> , 2013 , 88, 062133	2.4	28
45	Transient dynamics during stress overshoots in binary colloidal glasses. <i>Soft Matter</i> , 2014 , 10, 6546-55	3.6	27
44	Lipid organization and the morphology of solid-like domains in phase-separating binary lipid membranes. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, L415-20	1.8	23
43	Tuning protein-protein interactions using cosolvents: specific effects of ionic and non-ionic additives on protein phase behavior. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 10270-80	3.6	22
42	Experimental creation and characterization of random potential-energy landscapes exploiting speckle patterns. <i>Physical Review A</i> , 2016 , 93,	2.6	21
41	Time-dependent flow in arrested states \square transient behaviour. <i>European Physical Journal: Special Topics</i> , 2013 , 222, 2803-2817	2.3	20
40	Dynamics of individual colloidal particles in one-dimensional random potentials: a simulation study. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 464116	1.8	20
39	Combined holographic-mechanical optical tweezers: construction, optimization, and calibration. <i>Review of Scientific Instruments</i> , 2009 , 80, 083703	1.7	20
38	Time- and ensemble-averages in evolving systems: the case of Brownian particles in random potentials. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 18887-95	3.6	19
37	Glassy dynamics in asymmetric binary mixtures of hard spheres. <i>Physical Review E</i> , 2019 , 99, 042603	2.4	18
36	Size-Dependent Localization in Polydisperse Colloidal Glasses. <i>Physical Review Letters</i> , 2017 , 119, 048003	3.4	18
35	Binary colloidal glasses under transient stress- and strain-controlled shear. <i>Journal of Rheology</i> , 2018 , 62, 149-159	4.1	17
34	Structure of colloidal gels at intermediate concentrations: the role of competing interactions. <i>Soft Matter</i> , 2016 , 12, 9303-9313	3.6	16
33	Droplet Structure in Phosphocholine Microemulsions. <i>Langmuir</i> , 1997 , 13, 2490-2493	4	16
32	Second Virial Coefficient As Determined from Protein Phase Behavior. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4008-4014	6.4	15
31	Shape of Ocr, the gene 0.3 protein of bacteriophage T7: modeling based on light scattering experiments. <i>Biochemistry</i> , 2001 , 40, 9944-9	3.2	14

30	Microliter viscometry using a bright-field microscope: EDDM. <i>Soft Matter</i> , 2018 , 14, 7016-7025	3.6	12
29	Solid-like domains in fluid membranes. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, S3341-S3346	1.8	12
28	Different scenarios of dynamic coupling in glassy colloidal mixtures. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 18630-18638	3.6	10
27	Triple Junction at the Triple Point Resolved on the Individual Particle Level. <i>Physical Review Letters</i> , 2017 , 119, 128001	7.4	10
26	Glasses of dynamically asymmetric binary colloidal mixtures: Quiescent properties and dynamics under shear 2013 ,		10
25	Colloids exposed to random potential energy landscapes: From particle number density to particle-potential and particle-particle interactions. <i>Journal of Chemical Physics</i> , 2016 , 145, 044905	3.9	9
24	Additivity of the Specific Effects of Additives on Protein Phase Behavior. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 14986-93	3.4	8
23	Binary colloidal glasses: linear viscoelasticity and its link to the microscopic structure and dynamics. <i>Soft Matter</i> , 2019 , 15, 2232-2244	3.6	8
22	Swelling and shrinking kinetics of a lamellar gel phase. <i>Applied Physics Letters</i> , 2008 , 92, 174105	3.4	7
21	One- and two-component colloidal glasses under transient shear. <i>European Physical Journal: Special Topics</i> , 2017 , 226, 3023-3037	2.3	6
20	Neutron, fluorescence, and optical imaging: An in situ combination of complementary techniques. <i>Review of Scientific Instruments</i> , 2015 , 86, 093706	1.7	6
19	Traveling band formation in feedback-driven colloids. <i>Physical Review E</i> , 2019 , 100, 022609	2.4	5
18	Diffusion of Anisotropic Particles in Random Energy Landscapes: An Experimental Study. <i>Frontiers in Physics</i> , 2020 , 7,	3.9	5
17	Dense colloidal mixtures in an external sinusoidal potential. <i>Journal of Chemical Physics</i> , 2018 , 148, 114903	3.9	5
16	Precipitation from amorphous solid dispersions in biorelevant dissolution testing: The polymorphism of regorafenib. <i>International Journal of Pharmaceutics</i> , 2021 , 603, 120716	6.5	4
15	Solvent and solute ingress into hydrogels resolved by a combination of imaging techniques. <i>Journal of Chemical Physics</i> , 2016 , 144, 204903	3.9	4
14	Investigation of moderately turbid suspensions by heterodyne near field scattering. <i>Soft Matter</i> , 2017 , 13, 5961-5969	3.6	3
13	Note: Using a Kërters prism to create a fringe pattern. <i>Review of Scientific Instruments</i> , 2017 , 88, 056102	1.7	3

12	Universal amyloidogenicity of patient-derived immunoglobulin light chains		3
11	The crystallization enthalpy and entropy of protein solutions: microcalorimetry, van't Hoff determination and linearized Poisson-Boltzmann model of tetragonal lysozyme crystals. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 2686-2696	3.6	3
10	Shear-induced crystallisation in binary colloidal suspensions investigated using confocal microscopy. <i>JPhys Materials</i> , 2020 , 3, 035004	4.2	2
9	Two-dimensional Brownian motion of anisotropic dimers. <i>Physical Review E</i> , 2021 , 104, 014605	2.4	2
8	From normal diffusion to superdiffusion: Photothermal heating of plasmonic core-shell microgels. <i>Physical Review E</i> , 2019 , 100, 052605	2.4	2
7	Stress versus strain controlled shear: Yielding and relaxation of concentrated colloidal suspensions. <i>Journal of Rheology</i> , 2021 , 65, 1219-1233	4.1	2
6	Rheology of colloidal and metallic glass formers. <i>Colloid and Polymer Science</i> , 2020 , 298, 681-696	2.4	1
5	Soft matter dynamics: A versatile microgravity platform to study dynamics in soft matter.. <i>Review of Scientific Instruments</i> , 2021 , 92, 124503	1.7	1
4	First-passage statistics of colloids on fractals: Theory and experimental realization.. <i>Science Advances</i> , 2022 , 8, eabk0627	14.3	0
3	Interactions in protein solutions close to liquid-liquid phase separation: ethanol reduces attractions changes of the dielectric solution properties. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 22384-22394	3.6	0
2	ArGSLab: a tool for analyzing experimental or simulated particle networks. <i>Soft Matter</i> , 2021 , 17, 8354-8362	3.6	0
1	Solid-Like Domains in Mixed Lipid Bilayers. <i>Behavior Research Methods</i> , 2014 , 137-154	6.1	