

# Stefan Egelhaaf

## 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.

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	First-passage statistics of colloids on fractals: Theory and experimental realization.. <i>Science Advances</i> , <b>2022</b> , 8, eabk0627	14.3	0
82	Precipitation from amorphous solid dispersions in biorelevant dissolution testing: The polymorphism of regorafenib. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 603, 120716	6.5	4
81	Two-dimensional Brownian motion of anisotropic dimers. <i>Physical Review E</i> , <b>2021</b> , 104, 014605	2.4	2
80	The crystallization enthalpy and entropy of protein solutions: microcalorimetry, van Hoff determination and linearized Poisson-Boltzmann model of tetragonal lysozyme crystals. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 2686-2696	3.6	3
79	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> , <b>2021</b> , 23, 22384-22394	3.6	0
78	Stress versus strain controlled shear: Yielding and relaxation of concentrated colloidal suspensions. <i>Journal of Rheology</i> , <b>2021</b> , 65, 1219-1233	4.1	2
77	ArGSLab: a tool for analyzing experimental or simulated particle networks. <i>Soft Matter</i> , <b>2021</b> , 17, 8354-8362	3.6	0
76	Soft matter dynamics: A versatile microgravity platform to study dynamics in soft matter.. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 124503	1.7	1
75	Diffusion of Anisotropic Particles in Random Energy Landscapes: An Experimental Study. <i>Frontiers in Physics</i> , <b>2020</b> , 7,	3.9	5
74	Rheology of colloidal and metallic glass formers. <i>Colloid and Polymer Science</i> , <b>2020</b> , 298, 681-696	2.4	1
73	Shear-induced crystallisation in binary colloidal suspensions investigated using confocal microscopy. <i>JPhys Materials</i> , <b>2020</b> , 3, 035004	4.2	2
72	Traveling band formation in feedback-driven colloids. <i>Physical Review E</i> , <b>2019</b> , 100, 022609	2.4	5
71	Glassy dynamics in asymmetric binary mixtures of hard spheres. <i>Physical Review E</i> , <b>2019</b> , 99, 042603	2.4	18
70	Binary colloidal glasses: linear viscoelasticity and its link to the microscopic structure and dynamics. <i>Soft Matter</i> , <b>2019</b> , 15, 2232-2244	3.6	8
69	From normal diffusion to superdiffusion: Photothermal heating of plasmonic core-shell microgels. <i>Physical Review E</i> , <b>2019</b> , 100, 052605	2.4	2
68	Microliter viscometry using a bright-field microscope: EDDM. <i>Soft Matter</i> , <b>2018</b> , 14, 7016-7025	3.6	12
67	Different scenarios of dynamic coupling in glassy colloidal mixtures. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 18630-18638	3.6	10

66	Binary colloidal glasses under transient stress- and strain-controlled shear. <i>Journal of Rheology</i> , <b>2018</b> , 62, 149-159	4.1	17
65	Dense colloidal mixtures in an external sinusoidal potential. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 114903	3.3	5
64	Long-Lived Neighbors Determine the Rheological Response of Glasses. <i>Physical Review Letters</i> , <b>2017</b> , 118, 018002	7.4	41
63	Triple Junction at the Triple Point Resolved on the Individual Particle Level. <i>Physical Review Letters</i> , <b>2017</b> , 119, 128001	7.4	10
62	Investigation of moderately turbid suspensions by heterodyne near field scattering. <i>Soft Matter</i> , <b>2017</b> , 13, 5961-5969	3.6	3
61	Size-Dependent Localization in Polydisperse Colloidal Glasses. <i>Physical Review Letters</i> , <b>2017</b> , 119, 048003	7.4	18
60	One- and two-component colloidal glasses under transient shear. <i>European Physical Journal: Special Topics</i> , <b>2017</b> , 226, 3023-3037	2.3	6
59	Note: Using a K&#228;rters prism to create a fringe pattern. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 056102	1.7	3
58	Anomalous dynamics of intruders in a crowded environment of mobile obstacles. <i>Nature Communications</i> , <b>2016</b> , 7, 11133	17.4	88
57	Structure of colloidal gels at intermediate concentrations: the role of competing interactions. <i>Soft Matter</i> , <b>2016</b> , 12, 9303-9313	3.6	16
56	Time- and ensemble-averages in evolving systems: the case of Brownian particles in random potentials. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 18887-95	3.6	19
55	Tuning protein-protein interactions using cosolvents: specific effects of ionic and non-ionic additives on protein phase behavior. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 10270-80	3.6	22
54	Experimental creation and characterization of random potential-energy landscapes exploiting speckle patterns. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	21
53	Colloids exposed to random potential energy landscapes: From particle number density to particle-potential and particle-particle interactions. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 044905	3.9	9
52	Directed percolation identified as equilibrium pre-transition towards non-equilibrium arrested gel states. <i>Nature Communications</i> , <b>2016</b> , 7, 11817	17.4	41
51	Solvent and solute ingress into hydrogels resolved by a combination of imaging techniques. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 204903	3.9	4
50	Start-up shear of concentrated colloidal hard spheres: Stresses, dynamics, and structure. <i>Journal of Rheology</i> , <b>2016</b> , 60, 603-623	4.1	48
49	Second Virial Coefficient As Determined from Protein Phase Behavior. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 4008-4014	6.4	15

48	Different mechanisms for dynamical arrest in largely asymmetric binary mixtures. <i>Physical Review E</i> , <b>2015</b> , 91, 032308	2.4	28
47	Creep and flow of glasses: strain response linked to the spatial distribution of dynamical heterogeneities. <i>Scientific Reports</i> , <b>2015</b> , 5, 11884	4.9	68
46	Crystallization seeds favour crystallization only during initial growth. <i>Nature Communications</i> , <b>2015</b> , 6, 7110	17.4	53
45	Extended law of corresponding states for protein solutions. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 174905	9.5	45
44	Neutron, fluorescence, and optical imaging: An in situ combination of complementary techniques. <i>Review of Scientific Instruments</i> , <b>2015</b> , 86, 093706	1.7	6
43	Additivity of the Specific Effects of Additives on Protein Phase Behavior. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 14986-93	3.4	8
42	Transient dynamics during stress overshoots in binary colloidal glasses. <i>Soft Matter</i> , <b>2014</b> , 10, 6546-55	3.6	27
41	Solid-Like Domains in Mixed Lipid Bilayers. <i>Behavior Research Methods</i> , <b>2014</b> , 137-154	6.1	
40	Plastic rearrangements in colloidal gels investigated by LAOS and LS-Echo. <i>Journal of Rheology</i> , <b>2014</b> , 58, 1395-1417	4.1	29
39	Brownian particles on rough substrates: relation between intermediate subdiffusion and asymptotic long-time diffusion. <i>Physical Review E</i> , <b>2013</b> , 88, 062133	2.4	28
38	Colloids in light fields: Particle dynamics in random and periodic energy landscapes. <i>European Physical Journal: Special Topics</i> , <b>2013</b> , 222, 2995-3009	2.3	57
37	Time-dependent flow in arrested states [transient behaviour]. <i>European Physical Journal: Special Topics</i> , <b>2013</b> , 222, 2803-2817	2.3	20
36	Yielding of binary colloidal glasses. <i>Soft Matter</i> , <b>2013</b> , 9, 4524	3.6	49
35	Residual stresses in glasses. <i>Physical Review Letters</i> , <b>2013</b> , 110, 215701	7.4	86
34	Particle dynamics in two-dimensional random-energy landscapes: experiments and simulations. <i>Physical Review E</i> , <b>2013</b> , 88, 022125	2.4	44
33	Glasses of dynamically asymmetric binary colloidal mixtures: Quiescent properties and dynamics under shear <b>2013</b> ,		10
32	Colloids in one dimensional random energy landscapes. <i>Soft Matter</i> , <b>2012</b> , 8, 2714	3.6	61
31	Transient dynamics in dense colloidal suspensions under shear: shear rate dependence. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 464104	1.8	29

30	Dynamics of individual colloidal particles in one-dimensional random potentials: a simulation study. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 464116	1.8	20
29	Tension and stiffness of the hard sphere crystal-fluid interface. <i>Physical Review Letters</i> , <b>2012</b> , 108, 226101	7.4	74
28	Yielding of hard-sphere glasses during start-up shear. <i>Physical Review Letters</i> , <b>2012</b> , 108, 098303	7.4	121
27	Effect of glycerol and dimethyl sulfoxide on the phase behavior of lysozyme: theory and experiments. <i>Journal of Chemical Physics</i> , <b>2012</b> , 136, 015102	3.9	30
26	Dynamics of dilute colloidal suspensions in modulated potentials. <i>Soft Matter</i> , <b>2011</b> , 7, 2064-2075	3.6	43
25	Nonlinear rheology of colloidal gels with intermediate volume fraction. <i>Journal of Rheology</i> , <b>2011</b> , 55, 673-706	4.1	122
24	Heterogeneous crystallization of hard-sphere colloids near a wall. <i>Soft Matter</i> , <b>2011</b> , 7, 8050	3.6	47
23	Combined holographic-mechanical optical tweezers: construction, optimization, and calibration. <i>Review of Scientific Instruments</i> , <b>2009</b> , 80, 083703	1.7	20
22	Structure, dynamics, and rheology of colloid-polymer mixtures: from liquids to gels. <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 134907	3.9	116
21	Yielding behavior of repulsion- and attraction-dominated colloidal glasses. <i>Journal of Rheology</i> , <b>2008</b> , 52, 649-676	4.1	223
20	From equilibrium to steady state: the transient dynamics of colloidal liquids under shear. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 404210	1.8	94
19	Colloidal suspensions in modulated light fields. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 404220	1.8	30
18	Swelling and shrinking kinetics of a lamellar gel phase. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 174105	3.4	7
17	Adhesion promotes phase separation in mixed-lipid membranes. <i>Europhysics Letters</i> , <b>2008</b> , 84, 48003	1.6	39
16	Confocal microscopy of colloidal particles: towards reliable, optimum coordinates. <i>Advances in Colloid and Interface Science</i> , <b>2008</b> , 136, 65-92	14.3	92
15	Yielding and crystallization of colloidal gels under oscillatory shear. <i>Physical Review E</i> , <b>2007</b> , 76, 041402	2.4	62
14	Protein phase behavior and crystallization: effect of glycerol. <i>Journal of Chemical Physics</i> , <b>2007</b> , 127, 125102	3.9	38
13	Yielding of colloidal glasses. <i>Europhysics Letters</i> , <b>2006</b> , 75, 624-630	1.6	147

12	Lipid organization and the morphology of solid-like domains in phase-separating binary lipid membranes. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, L415-20	1.8	23
11	Non-equilibrium behavior of sticky colloidal particles: beads, clusters and gels. <i>European Physical Journal E</i> , <b>2005</b> , 16, 77-80	1.5	51
10	Solid-like domains in fluid membranes. <i>Journal of Physics Condensed Matter</i> , <b>2005</b> , 17, S3341-S3346	1.8	12
9	Glasses in hard spheres with short-range attraction. <i>Physical Review E</i> , <b>2004</b> , 69, 011503	2.4	191
8	Multiple glassy states in a simple model system. <i>Science</i> , <b>2002</b> , 296, 104-6	33.3	646
7	Shape of Ocr, the gene 0.3 protein of bacteriophage T7: modeling based on light scattering experiments. <i>Biochemistry</i> , <b>2001</b> , 40, 9944-9	3.2	14
6	Protein crystallization: scaling of charge and salt concentration in lysozyme solutions. <i>Journal of Physics Condensed Matter</i> , <b>2000</b> , 12, L569-L574	1.8	44
5	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> , <b>1999</b> , 103, 9888-9897	3.4	118
4	Droplet Structure in Phosphocholine Microemulsions. <i>Langmuir</i> , <b>1997</b> , 13, 2490-2493	4	16
3	A fiber-optics-based light scattering instrument for time-resolved simultaneous static and dynamic measurements. <i>Review of Scientific Instruments</i> , <b>1996</b> , 67, 540-545	1.7	29
2	Mode-selective dynamic light scattering: theory versus experimental realization. <i>Applied Optics</i> , <b>1995</b> , 34, 3546-53	1.7	56
1	Universal amyloidogenicity of patient-derived immunoglobulin light chains		3