Ludovic Berthier

List of Publications by Citations

184 papers	12,184 citations	59 h-index	105 g-index
192 ext. papers	13,616 ext. citations	5.2 avg, IF	7.16 L-index

#	Paper	IF	Citations
184	Theoretical perspective on the glass transition and amorphous materials. *Reviews of Modern Physics* , **2011**, 83, 587-645	40.5	1298
183	Direct experimental evidence of a growing length scale accompanying the glass transition. *Science*, **2005**, 310, 1797-800	33.3	658
182	Yield stress materials in soft condensed matter. *Reviews of Modern Physics*, **2017**, 89,	40.5	343
181	Universal nature of particle displacements close to glass and jamming transitions. *Physical Review Letters*, **2007**, 99, 060604	7.4	291
180	Probing the equilibrium dynamics of colloidal hard spheres above the mode-coupling glass transition. *Physical Review Letters*, **2009**, 102, 085703	7.4	279
179	Nonequilibrium dynamics and fluctuation-dissipation relation in a sheared fluid. *Journal of Chemical Physics*, **2002**, 116, 6228-6242	3.9	235
178	Dynamical susceptibility of glass formers: contrasting the predictions of theoretical scenarios. *Physical Review E*, **2005**, 71, 041505	2.4	220
177	Spontaneous and induced dynamic fluctuations in glass formers. I. General results and dependence on ensemble and dynamics. *Journal of Chemical Physics*, **2007**, 126, 184503	3.9	212
176	Spatial correlations in the dynamics of glassforming liquids: experimental determination of their temperature dependence. *Physical Review E*, **2007**, 76, 041510	2.4	204
175	Shear localization in a model glass. *Physical Review Letters*, **2003**, 90, 095702	7.4	190
174	Time and length scales in supercooled liquids. *Physical Review E*, **2004**, 69, 020201	2.4	187
173	A two-time-scale, two-temperature scenario for nonlinear rheology. *Physical Review E*, **2000**, 61, 5464-72	2.4	185
172	Non-equilibrium glass transitions in driven and active matter. *Nature Physics*, **2013**, 9, 310-314	16.2	177
171	Unified study of glass and jamming rheology in soft particle systems. *Physical Review Letters*, **2012**, 109, 018301	7.4	174
170	Jamming transitions in amorphous packings of frictionless spheres occur over a continuous range of volume fractions. *Physical Review Letters*, **2010**, 104, 165701	7.4	172
169	Glass transition of dense fluids of hard and compressible spheres. *Physical Review E*, **2009**, 80, 021502	2.4	170
168	Non-monotonic temperature evolution of dynamic correlations in glass-forming liquids. *Nature Physics*, **2012**, 8, 164-167	16.2	164

167	Inducing a Curl with a Stretch. *Physics Magazine*, **2011**, 4,	1.1	161
166	Shearing a glassy material: numerical tests of nonequilibrium mode-coupling approaches and experimental proposals. *Physical Review Letters*, **2002**, 89, 095702	7.4	155
165	Dynamic criticality in glass-forming liquids. *Physical Review Letters*, **2004**, 92, 185705	7.4	154
164	Spontaneous and induced dynamic correlations in glass formers. II. Model calculations and comparison to numerical simulations. *Journal of Chemical Physics*, **2007**, 126, 184504	3.9	146
163	Geometrical aspects of aging and rejuvenation in the Ising spin glass: A numerical study. *Physical Review B*, **2002**, 66,	3.3	145
162	Length scale for the onset of Fickian diffusion in supercooled liquids. *Europhysics Letters*, **2005**, 69, 320-326	2.6	143
161	Static point-to-set correlations in glass-forming liquids. *Physical Review E*, **2012**, 85, 011102	2.4	141
160	Models and Algorithms for the Next Generation of Glass Transition Studies. *Physical Review X*, **2017**, 7,	9.1	138
159	Random critical point separates brittle and ductile yielding transitions in amorphous materials. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 6656-6661	11.5	130
158	Nonperturbative effect of attractive forces in viscous liquids. *Physical Review Letters*, **2009**, 103, 170601	7.4	123
157	Compressing nearly hard sphere fluids increases glass fragility. *Europhysics Letters*, **2009**, 86, 10001	1.6	115
156	Nonequilibrium Equation of State in Suspensions of Active Colloids. *Physical Review X*, **2015**, 5,	9.1	113
155	Nonequilibrium glassy dynamics of self-propelled hard disks. *Physical Review Letters*, **2014**, 112, 220602	7.4	109
154	Facets of glass physics. *Physics Today*, **2016**, 69, 40-46	0.9	105
153	Nonequilibrium critical dynamics of the two-dimensionalXYmodel. *Journal of Physics A*, **2001**, 34, 1805-1824		103
152	The Monte Carlo dynamics of a binary Lennard-Jones glass-forming mixture. *Journal of Physics Condensed Matter*, **2007**, 19, 205130	1.8	101
151	Real space origin of temperature crossovers in supercooled liquids. *Physical Review E*, **2003**, 68, 041201	2.4	97
150	Equilibrium Sampling of Hard Spheres up to the Jamming Density and Beyond. *Physical Review Letters*, **2016**, 116, 238002	7.4	95

149	Fluctuation-dissipation relation in a sheared fluid. *Physical Review E*, **2001**, 63, 012503	2.4	89
148	Disentangling glass and jamming physics in the rheology of soft materials. *Soft Matter*, **2013**, 9, 7669	3.6	88
147	Probing a liquid to glass transition in equilibrium. *Physical Review Letters*, **2013**, 110, 245702	7.4	88
146	Dynamic criticality at the jamming transition. *Journal of Chemical Physics*, **2013**, 138, 12A507	3.9	87
145	Configurational entropy measurements in extremely supercooled liquids that break the glass ceiling. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 11356-11361	11.5	82
144	Glassy dynamics of athermal self-propelled particles: Computer simulations and a nonequilibrium microscopic theory. *Physical Review E*, **2015**, 91, 062304	2.4	82
143	Growing timescales and lengthscales characterizing vibrations of amorphous solids. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 8397-401	11.5	82
142	Structure and dynamics of glass formers: predictability at large length scales. *Physical Review E*, **2007**, 76, 041509	2.4	81
141	Response function of coarsening systems. *European Physical Journal B*, **1999**, 11, 635-641	1.2	81
140	Amorphous silica modeled with truncated and screened Coulomb interactions: a molecular dynamics simulation study. *Journal of Chemical Physics*, **2007**, 127, 114512	3.9	79
139	The role of attractive forces in viscous liquids. *Journal of Chemical Physics*, **2011**, 134, 214503	3.9	76
138	Low-frequency vibrational modes of stable glasses. *Nature Communications*, **2019**, 10, 26	17.4	75
137	Clustering and heterogeneous dynamics in a kinetic Monte Carlo model of self-propelled hard disks. *Physical Review E*, **2014**, 89, 062301	2.4	74
136	Microscopic theory of the jamming transition of harmonic spheres. *Physical Review E*, **2011**, 84, 051103	2.4	74
135	Hyperuniform density fluctuations and diverging dynamic correlations in periodically driven colloidal suspensions. *Physical Review Letters*, **2015**, 114, 148301	7.4	71
134	Increasing the density melts ultrasoft colloidal glasses. *Physical Review E*, **2010**, 82, 060501	2.4	69
133	Heterogeneous dynamics of coarsening systems. *Physical Review Letters*, **2004**, 93, 115701	7.4	69
132	Nontopographic description of inherent structure dynamics in glassformers. *Journal of Chemical Physics*, **2003**, 119, 4367-4371	3.9	69

131	Heterogeneous diffusion in a reversible gel. *Physical Review Letters*, **2007**, 98, 135503	7.4	68
130	Suppressed compressibility at large scale in jammed packings of size-disperse spheres. *Physical Review Letters*, **2011**, 106, 120601	7.4	64
129	Finite-size effects in the dynamics of glass-forming liquids. *Physical Review E*, **2012**, 86, 031502	2.4	64
128	Macroscopic yielding in jammed solids is accompanied by a nonequilibrium first-order transition in particle trajectories. *Physical Review E*, **2016**, 94, 022615	2.4	64
127	Critical test of the mode-coupling theory of the glass transition. *Physical Review E*, **2010**, 82, 031502	2.4	61
126	From single-particle to collective effective temperatures in an active fluid of self-propelled particles. *Europhysics Letters*, **2015**, 111, 60006	1.6	60
125	Overlap fluctuations in glass-forming liquids. *Physical Review E*, **2013**, 88, 022313	2.4	59
124	The nonequilibrium glassy dynamics of self-propelled particles. *Soft Matter*, **2016**, 12, 7136-49	3.6	57
123	Glassy dynamics in dense systems of active particles. *Journal of Chemical Physics*, **2019**, 150, 200901	3.9	56
122	Influence of the glass transition on the liquid-gas spinodal decomposition. *Physical Review Letters*, **2011**, 106, 125702	7.4	56
121	Fluctuation-dissipation relations in the nonequilibrium critical dynamics of Ising models. *Physical Review E*, **2003**, 68, 016116	2.4	56
120	Superdiffusive, heterogeneous, and collective particle motion near the fluid-solid transition in athermal disordered materials. *Europhysics Letters*, **2010**, 90, 20005	1.6	54
119	Finite-size scaling analysis of the glass transition. *Physical Review Letters*, **2003**, 91, 055701	7.4	52
118	Efficient measurement of linear susceptibilities in molecular simulations: application to aging supercooled liquids. *Physical Review Letters*, **2007**, 98, 220601	7.4	50
117	Inhomogeneous shear flows in soft jammed materials with tunable attractive forces. *Physical Review E*, **2012**, 85, 021503	2.4	49
116	Glass transition of soft colloids. *Physical Review E*, **2018**, 97, 040601	2.4	48
115	Absence of Marginal Stability in a Structural Glass. *Physical Review Letters*, **2017**, 119, 205501	7.4	48
114	Microscopic mean-field theory of the jamming transition. *Physical Review Letters*, **2011**, 106, 135702	7.4	48

113	Dynamic light scattering measurements in the activated regime of dense colloidal hard spheres. *Journal of Statistical Mechanics: Theory and Experiment*, **2009**, 2009, P07015	1.9	47
112	Numerical study of a fragile three-dimensional kinetically constrained model. *Journal of Physical Chemistry B*, **2005**, 109, 3578-85	3.4	47
111	Zero-temperature glass transition in two dimensions. *Nature Communications*, **2019**, 10, 1508	17.4	46
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108	Revisiting the slow dynamics of a silica melt using Monte Carlo simulations. *Physical Review E*, **2007**, 76, 011507	2.4	46
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106	How active forces influence nonequilibrium glass transitions. *New Journal of Physics*, **2017**, 19, 125006	2.9	43
105	Diverging viscosity and soft granular rheology in non-Brownian suspensions. *Physical Review E*, **2015**, 91, 012203	2.4	43
104	Aging dynamics of the Heisenberg spin glass. *Physical Review B*, **2004**, 69,	3.3	43
103	Renormalization group study of a kinetically constrained model for strong glasses. *Physical Review E*, **2005**, 71, 026128	2.4	43
102	Evidence for a Disordered Critical Point in a Glass-Forming Liquid. *Physical Review Letters*, **2015**, 114, 205701	7.4	41
101	Glassy systems under time-dependent driving forces: application to slow granular rheology. *Physical Review E*, **2001**, 63, 051302	2.4	41
100	Origin of Ultrastability in Vapor-Deposited Glasses. *Physical Review Letters*, **2017**, 119, 188002	7.4	40
99	Novel approach to numerical measurements of the configurational entropy in supercooled liquids. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 11668-72	11.5	40
98	Highly nonlinear dynamics in a slowly sedimenting colloidal gel. *Physical Review Letters*, **2011**, 106, 118302	7.4	40
97	Thinning or thickening? Multiple rheological regimes in dense suspensions of soft particles. *Europhysics Letters*, **2014**, 107, 28009	1.6	39
96	Phase separation in a homogeneous shear flow: morphology, growth laws, and dynamic scaling. *Physical Review E*, **2001**, 63, 051503	2.4	38

95	Anomalous structural evolution of soft particles: equibrium liquid state theory. *Soft Matter*, **2010**, 6, 2976	3.6	37
94	Testing "microscopic" theories of glass-forming liquids. *European Physical Journal E*, **2011**, 34, 96	1.5	36
93	Random pinning in glassy spin models with plaquette interactions. *Physical Review E*, **2012**, 85, 021120	2.4	36
92	Exploring the jamming transition over a wide range of critical densities. *SciPost Physics*, **2017**, 3,	6.1	35
91	Configurational entropy of glass-forming liquids. *Journal of Chemical Physics*, **2019**, 150, 160902	3.9	34
90	Surfing on a critical line: Rejuvenation without chaos, memory without a hierarchical phase space. *Europhysics Letters*, **2002**, 58, 35-41	1.6	33
89	Point-to-set lengths, local structure, and glassiness. *Physical Review E*, **2016**, 94, 032605	2.4	33
88	Ageing and ultra-slow equilibration in concentrated colloidal hard spheres. *Journal of Physics Condensed Matter*, **2005**, 17, S3543-S3549	1.8	32
87	Real-space application of the mean-field description of spin-glass dynamics. *Physical Review Letters*, **2001**, 87, 087204	7.4	32
86	Crossovers in the dynamics of supercooled liquids probed by an amorphous wall. *Physical Review E*, **2014**, 89, 052311	2.4	31
85	Density controls the kinetic stability of ultrastable glasses. *Europhysics Letters*, **2017**, 119, 36003	1.6	30
84	Glass Stability Changes the Nature of Yielding under Oscillatory Shear. *Physical Review Letters*, **2020**, 124, 225502	7.4	30
83	Gardner physics in amorphous solids and beyond. *Journal of Chemical Physics*, **2019**, 151, 010901	3.9	29
82	Thermal fluctuations, mechanical response, and hyperuniformity in jammed solids. *Physical Review E*, **2015**, 92, 012309	2.4	29
81	Yield stress, heterogeneities and activated processes in soft glassy materials. *Journal of Physics Condensed Matter*, **2003**, 15, S933-S943	1.8	29
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79	Equilibrium equation of state of a hard sphere binary mixture at very large densities using replica exchange Monte Carlo simulations. *Journal of Chemical Physics*, **2011**, 134, 054504	3.9	28
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76	Static and dynamic length scales in a simple glassy plaquette model. *Physical Review E*, **2005**, 72, 016103	2.4	27
75	Marginally stable phases in mean-field structural glasses. *Physical Review E*, **2019**, 99, 012107	2.4	27
74	Does the configurational entropy of polydisperse particles exist?. *Journal of Chemical Physics*, **2017**, 146, 014502	3.9	26
73	Efficient swap algorithms for molecular dynamics simulations of equilibrium supercooled liquids. *Journal of Statistical Mechanics: Theory and Experiment*, **2019**, 2019, 064004	1.9	26
72	Equilibrium ultrastable glasses produced by random pinning. *Journal of Chemical Physics*, **2014**, 141, 224503	3.9	26
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70	Can the glass transition be explained without a growing static length scale?. *Journal of Chemical Physics*, **2019**, 150, 094501	3.9	25
69	When gel and glass meet: a mechanism for multistep relaxation. *Physical Review E*, **2010**, 81, 040502	2.4	25
68	Scaling of the glassy dynamics of soft repulsive particles: a mode-coupling approach. *Physical Review E*, **2010**, 81, 031505	2.4	25
67	Non-equilibrium dynamics of spin facilitated glass models. *Journal of Statistical Mechanics: Theory and Experiment*, **2007**, 2007, P07017-P07017	1.9	25
66	Temperature cycles in the Heisenberg spin glass. *Physical Review B*, **2005**, 71,	3.3	23
65	Brittle yielding of amorphous solids at finite shear rates. *Physical Review Materials*, **2020**, 4,	3.2	22
64	Discontinuous shear thickening in Brownian suspensions. *Physical Review E*, **2018**, 98, 012609	2.4	21
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57	Phase separation in a chaotic flow. *Physical Review Letters*, **2001**, 86, 2014-7	7.4	19
56	Nature of excitations and defects in structural glasses. *Nature Communications*, **2019**, 10, 5102	17.4	18
55	Lifetime of dynamic heterogeneity in strong and fragile kinetically constrained spin models. *Journal of Physics Condensed Matter*, **2005**, 17, S3571-S3577	1.8	18
54	The melting of stable glasses is governed by nucleation-and-growth dynamics. *Journal of Chemical Physics*, **2016**, 144, 244506	3.9	18
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52	Large-scale structure of randomly jammed spheres. *Physical Review E*, **2017**, 95, 052125	2.4	17
51	Yield stress in amorphous solids: a mode-coupling-theory analysis. *Physical Review E*, **2013**, 88, 052305	2.4	16
50	Relaxation dynamics in a transient network fluid with competing gel and glass phases. *Journal of Chemical Physics*, **2015**, 142, 174503	3.9	16
49	Configurational entropy of polydisperse supercooled liquids. *Journal of Chemical Physics*, **2018**, 149, 154501	3.9	16
48	Universal Relaxation Dynamics of Sphere Packings below Jamming. *Physical Review Letters*, **2020**, 124, 058001	7.4	15
47	Brambilla et al. Reply:. *Physical Review Letters*, **2010**, 104,	7.4	15
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41	A localization transition underlies the mode-coupling crossover of glasses. *SciPost Physics*, **2019**, 7,	6.1	14
40	Criticality and correlated dynamics at the irreversibility transition in periodically driven colloidal suspensions. *Journal of Statistical Mechanics: Theory and Experiment*, **2016**, 2016, 033501	1.9	14
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38	Fluctuation-dissipation relations in plaquette spin systems with multi-stage relaxation. *Journal of Statistical Mechanics: Theory and Experiment*, **2006**, 2006, P12005-P12005	1.9	13
37	Overview of different characterizations of dynamic heterogeneity **2011**, 68-109		12
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35	How to "measure" a structural relaxation time that is too long to be measured?. *Journal of Chemical Physics*, **2020**, 153, 044501	3.9	12
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32	Sub-aging in a domain growth model. *European Physical Journal B*, **2000**, 17, 689-692	1.2	11
31	Spatial Correlations in Glass-Forming Liquids Across The Mode-Coupling Crossover. *Physics Procedia* , **2012**, 34, 70-79		10
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29	Role of fluctuations in the yielding transition of two-dimensional glasses. *Physical Review Research*, **2020**, 2,	3.9	10
28	Ultrastable Metallic Glasses In Silico. *Physical Review Letters*, **2020**, 125, 085505	7.4	9
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26	Dynamic heterogeneity in the Glauber-Ising chain. *Journal of Statistical Mechanics: Theory and Experiment*, **2005**, 2005, P05002	1.9	8
25	An efficient scheme for sampling fast dynamics at a low average data acquisition rate. *Journal of Physics Condensed Matter*, **2016**, 28, 075201	1.8	6
24	Energetics of clusters in the two-dimensional Gaussian Ising spin glass. *Journal of Physics A*, **2003**, 36, 10835-10846		6

23	Relaxation Dynamics of Non-Brownian Spheres Below Jamming. *Journal of Statistical Physics*, **2021**, 182, 1	1.5	6
22	Multiple symmetry sustaining phase transitions in spin ice. *Physical Review B*, **2019**, 99,	3.3	5
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14	Excess wings and asymmetric relaxation spectra in a facilitated trap model. *Journal of Chemical Physics*, **2021**, 155, 064505	3.9	3
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11	A few bubbles in a glass **2004**,		2
10	A consequence of local equilibration and heterogeneity in glassy materials. *Journal of Physics A*, **2003**, 36, 10667-10681		1
9	On the overlap between configurations in glassy liquids. *Journal of Chemical Physics*, **2020**, 153, 224502	3.9	1
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5	Rare events and disorder control the brittle yielding of well-annealed amorphous solids. *Physical Review Research*, **2022**, 4,	3.9	1
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3	Glasses and Aging, A Statistical Mechanics Perspective on **2022**, 229-296		0
2	Course 13 The slow dynamics of glassy materials: Insights from computer simulations. *Les Houches Summer School Proceedings*, **2007**, 85, 473-482		
1	la recherche du verre idal. *Pourlascience Fr*, **2022**, N° 534 avril, 64-71	0	