Marco Laurati

List of Publications by Year
in descending order

50 papers	1,665 citations	331670 21 h-index	289244 40 g-index
50 all docs	50 docs citations	50 times ranked	1403 citing authors

#	Article	IF	Citations
1	Nonlinear rheology of colloidal gels with intermediate volume fraction. Journal of Rheology, 2011, 55, 673-706.	2.6	150
2	Structure, dynamics, and rheology of colloid-polymer mixtures: From liquids to gels. Journal of Chemical Physics, 2009, 130, 134907.	3.0	134
3	Yielding of Hard-Sphere Glasses during Start-Up Shear. Physical Review Letters, 2012, 108, 098303.	7.8	130
4	Anomalous dynamics of intruders in a crowded environment of mobile obstacles. Nature Communications, 2016, 7, 11133.	12.8	114
5	From equilibrium to steady state: the transient dynamics of colloidal liquids under shear. Journal of Physics Condensed Matter, 2008, 20, 404210.	1.8	97
6	Residual Stresses in Glasses. Physical Review Letters, 2013, 110, 215701.	7.8	95
7	Creep and flow of glasses: strain response linked to the spatial distribution of dynamical heterogeneities. Scientific Reports, 2015, 5, 11884.	3.3	78
8	Starlike Micelles with Starlike Interactions: A Quantitative Evaluation of Structure Factors and Phase Diagram. Physical Review Letters, 2005, 94, 195504.	7.8	65
9	Dynamics of Water Absorbed in Polyamides. Macromolecules, 2012, 45, 1676-1687.	4.8	61
10	Yielding of binary colloidal glasses. Soft Matter, 2013, 9, 4524.	2.7	56
11	Long-Lived Neighbors Determine the Rheological Response of Glasses. Physical Review Letters, 2017, 118, 018002.	7.8	52
12	Directed percolation identified as equilibrium pre-transition towards non-equilibrium arrested gel states. Nature Communications, 2016, 7, 11817.	12.8	51
13	Start-up shear of concentrated colloidal hard spheres: Stresses, dynamics, and structure. Journal of Rheology, 2016, 60, 603-623.	2.6	50
14	i-Rheo: Measuring the materials' linear viscoelastic properties â€œin a step<i>â€‹</i>!. Journal of Rheology, 2016, 60, 649-660.	2.6	47
15	Asymmetric poly(ethylene-alt-propylene)-poly(ethylene oxide) micelles: A system with starlike morphology and interactions. Physical Review E, 2007, 76, 041503.	2.1	37
16	Plastic rearrangements in colloidal gels investigated by LAOS and LS-Echo. Journal of Rheology, 2014, 58, 1395-1417.	2.6	36
17	Different mechanisms for dynamical arrest in largely asymmetric binary mixtures. Physical Review E, 2015, 91, 032308.	2.1	33
18	Glassy dynamics in asymmetric binary mixtures of hard spheres. Physical Review E, 2019, 99, 042603.	2.1	33

#	Article	IF	Citations
19	Transient dynamics in dense colloidal suspensions under shear: shear rate dependence. Journal of Physics Condensed Matter, 2012, 24, 464104.	1.8	31
20	Transient dynamics during stress overshoots in binary colloidal glasses. Soft Matter, 2014, 10, 6546-6555.	2.7	30
21	Size-Dependent Localization in Polydisperse Colloidal Glasses. Physical Review Letters, 2017, 119, 048003.	7.8	28
22	Poly(ethylene-alt-propylene)â€“poly(ethylene oxide) diblock copolymer micelles: a colloidal model system withtunable softness. Journal of Physics Condensed Matter, 2004, 16, S3821-S3834.	1.8	21
23	Time-dependent flow in arrested states â€“ transient behaviour. European Physical Journal: Special Topics, 2013, 222, 2803-2817.	2.6	21
24	Structure of colloidal gels at intermediate concentrations: the role of competing interactions. Soft Matter, 2016, 12, 9303-9313.	2.7	19
25	Binary colloidal glasses under transient stress- and strain-controlled shear. Journal of Rheology, 2018, 62, 149-159.	2.6	19
26	Effect of polar solvents on the crystalline phase of polyamides. Polymer, 2014, 55, 2867-2881.	3.8	17
27	Different scenarios of dynamic coupling in glassy colloidal mixtures. Physical Chemistry Chemical Physics, 2018, 20, 18630-18638.	2.8	14
28	Modelâ€Free Rheoâ€AFM Probes the Viscoelasticity of Tunable DNA Soft Colloids. Small, 2019, 15, e1904136.	10.0	12
29	Glasses of dynamically asymmetric binary colloidal mixtures: Quiescent properties and dynamics under shear. AIP Conference Proceedings, 2013, , .	0.4	11
30	Different routes into the glass state for soft thermo-sensitive colloids. Soft Matter, 2018, 14, 5008-5018.	2.7	11
31	Hybrid fibroin-nanocellulose composites for the consolidation of aged and historical silk. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 634, 127944.	4.7	11
32	Binary colloidal glasses: linear viscoelasticity and its link to the microscopic structure and dynamics. Soft Matter, 2019, 15, 2232-2244.	2.7	10
33	One- and two-component colloidal glasses under transient shear. European Physical Journal: Special Topics, 2017, 226, 3023-3037.	2.6	9
34	Clusters in colloidal dispersions with a short-range depletion attraction: Thermodynamic identification and morphology. Journal of Colloid and Interface Science, 2022, 618, 442-450.	9.4	9
35	Colloidal and polymeric contributions to the yielding of dense microgel suspensions. Journal of Colloid and Interface Science, 2021, 587, 437-445.	9.4	8
36	SANS analysis of perfluoropolyether water-in-oil microemulsions by hard sphere and adhesive hard sphere potentials. Applied Physics A: Materials Science and Processing, 2002, 74, s377-s379.	2.3	7

#	Article	IF	Citations
37	Investigation of moderately turbid suspensions by heterodyne near field scattering. Soft Matter, 2017, 13, 5961-5969.	2.7	7
38	Mechanical response and yielding transition of silk-fibroin and silk-fibroin/cellulose nanocrystals composite gels. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 636, 128121.	4.7	7
39	Effect of size disparity on the structure and dynamics of the small component in concentrated binary colloidal mixtures. Journal of Chemical Physics, 2019, 151, 164504.	3.0	6
40	Link between Morphology, Structure, and Interactions of Composite Microgels. Macromolecules, 2022, 55, 1834-1843.	4.8	6
41	Reciprocal Space Study of Brownian Yet Non-Gaussian Diffusion of Small Tracers in a Hard-Sphere Glass. Frontiers in Physics, 0, 10, .	2.1	5
42	Small-Angle Neutron Scattering of Percolative Perfluoropolyether Water in Oil Microemulsions. Journal of Physical Chemistry B, 2010, 114, 3855-3862.	2.6	4
43	A well defined glass state obtained by oscillatory shear. Journal of Rheology, 2018, 62, 197-207.	2.6	4
44	i-Rheo: determining the linear viscoelastic moduli of colloidal dispersions from step-stress measurements. Physical Chemistry Chemical Physics, 2020, 22, 3839-3848.	2.8	4
45	Rheology of colloidal and metallic glass formers. Colloid and Polymer Science, 2020, 298, 681-696.	2.1	4
46	Potential-invariant network structures in Asakuraâ€“Oosawa mixtures with very short attraction range. Journal of Chemical Physics, 2021, 155, 034903.	3.0	4
47	Blunt-End Driven Re-entrant Ordering in Quasi Two-Dimensional Dispersions of Spherical DNA Brushes. ACS Nano, 2022, 16, 2133-2146.	14.6	4
48	Small-Angle Neutron Scattering of Mixed Ionic Perfluoropolyether Micellar Solutions. Journal of Physical Chemistry B, 2007, 111, 1348-1353.	2.6	1
49	AFM investigation of the influence of ethanol absorption on the surface structure and elasticity of polyamides. SN Applied Sciences, 2019, 1, 1.	2.9	1
50	Tuning the Effective Interactions between Spherical Double-Stranded DNA Brushes. Macromolecules, 0, , .	4.8	1