

Ana Lema[®]tre

List of Publications by Year in descending order

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65
papers

4,075
citations

147566

31
h-index

118652

62
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65
all docs

65
docs citations

65
times ranked

2969
citing authors

#	ARTICLE	IF	CITATIONS
1	Amorphous systems in athermal, quasistatic shear. <i>Physical Review E</i> , 2006, 74, 016118.	0.8	513
2	Observation of Gravitational Waves from Two Neutron Star–Black Hole Coalescences. <i>Astrophysical Journal Letters</i> , 2021, 915, L5.	3.0	453
3	Steady state flow of cement suspensions: A micromechanical state of the art. <i>Cement and Concrete Research</i> , 2010, 40, 77-84.	4.6	382
4	Subextensive Scaling in the Athermal, Quasistatic Limit of Amorphous Matter in Plastic Shear Flow. <i>Physical Review Letters</i> , 2004, 93, .	2.9	224
5	Rate-Dependent Avalanche Size in Athermally Sheared Amorphous Solids. <i>Physical Review Letters</i> , 2009, 103, 065501.	2.9	220
6	Universal Breakdown of Elasticity at the Onset of Material Failure. <i>Physical Review Letters</i> , 2004, 93, 195501.	2.9	201
7	Sum Rules for the Quasi-Static and Visco-Elastic Response of Disordered Solids at Zero Temperature. <i>Journal of Statistical Physics</i> , 2006, 123, 415-453.	0.5	151
8	Rearrangements and Dilatancy for Sheared Dense Materials. <i>Physical Review Letters</i> , 2002, 89, 195503.	2.9	145
9	Shear Thickening and Migration in Granular Suspensions. <i>Physical Review Letters</i> , 2010, 105, 268303.	2.9	125
10	Avalanche Size Scaling in Sheared Three-Dimensional Amorphous Solid. <i>Physical Review Letters</i> , 2007, 98, 095501.	2.9	97
11	Macroscopic Discontinuous Shear Thickening versus Local Shear Jamming in Cornstarch. <i>Physical Review Letters</i> , 2015, 114, 098301.	2.9	97
12	Numerical tests of constitutive laws for dense granular flows. <i>Physical Review E</i> , 2005, 72, 051303.	0.8	96
13	Anomalous phonon scattering and elastic correlations in amorphous solids. <i>Nature Materials</i> , 2016, 15, 1177-1181.	13.3	91
14	Structural Relaxation is a Scale-Free Process. <i>Physical Review Letters</i> , 2014, 113, 245702.	2.9	88
15	Constraints on Cosmic Strings Using Data from the Third Advanced LIGO–Virgo Observing Run. <i>Physical Review Letters</i> , 2021, 126, 241102.	2.9	87
16	What do dry granular flows tell us about dense non-Brownian suspension rheology?. <i>Rheologica Acta</i> , 2009, 48, 925-942.	1.1	72
17	Elastic Signature of Flow Events in Supercooled Liquids Under Shear. <i>Physical Review Letters</i> , 2013, 111, 066001.	2.9	70
18	Plastic response of a two-dimensional amorphous solid to quasistatic shear: Transverse particle diffusion and phenomenology of dissipative events. <i>Physical Review E</i> , 2007, 76, 036104.	0.8	68

#	ARTICLE	IF	CITATIONS
19	Multiple domain growth and memory in the droplet model for spin-glasses. <i>European Physical Journal B</i> , 2001, 20, 367-395.	0.6	53
20	Universal Additive Effect of Temperature on the Rheology of Amorphous Solids. <i>Physical Review Letters</i> , 2010, 105, 266001.	2.9	52
21	Origin of a Repose Angle: Kinetics of Rearrangement for Granular Materials. <i>Physical Review Letters</i> , 2002, 89, 064303.	2.9	49
22	Predicting Plastic Flow Events in Athermal Shear-Strained Amorphous Solids. <i>Physical Review Letters</i> , 2010, 104, 215502.	2.9	48
23	Tensorial analysis of Eshelby stresses in 3D supercooled liquids. <i>Journal of Chemical Physics</i> , 2015, 143, 164515.	1.2	41
24	Phase Ordering and Onset of Collective Behavior in Chaotic Coupled Map Lattices. <i>Physical Review Letters</i> , 1999, 82, 1140-1143.	2.9	39
25	Rejuvenation and shear banding in model amorphous solids. <i>Physical Review E</i> , 2020, 101, 033001.	0.8	39
26	Contact and macroscopic ageing in colloidal suspensions. <i>Nature Materials</i> , 2020, 19, 775-780.	13.3	37
27	Boundary lubrication with a glassy interface. <i>Physical Review E</i> , 2004, 69, 061611.	0.8	35
28	Emergence of multi-contact interactions in contact dynamics simulations of granular shear flows. <i>Europhysics Letters</i> , 2006, 76, 318-324.	0.7	35
29	Spatial force correlations in granular shear flow. I. Numerical evidence. <i>Physical Review E</i> , 2007, 76, 021302.	0.8	35
30	Non-trivial collective behavior in extensively-chaotic dynamical systems: an update. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 224, 447-457.	1.2	32
31	Diving below the Spin-down Limit: Constraints on Gravitational Waves from the Energetic Young Pulsar PSR J0537-6910. <i>Astrophysical Journal Letters</i> , 2021, 913, L27.	3.0	32
32	Robustness of avalanche dynamics in sheared amorphous solids as probed by transverse diffusion. <i>Physical Review E</i> , 2011, 84, 011501.	0.8	29
33	Stress correlations in glasses. <i>Journal of Chemical Physics</i> , 2018, 149, 104107.	1.2	28
34	Spatial force correlations in granular shear flow. II. Theoretical implications. <i>Physical Review E</i> , 2007, 76, 021303.	0.8	25
35	Origin of the Bauschinger Effect in Amorphous Solids. <i>Physical Review Letters</i> , 2020, 124, 205503.	2.9	25
36	Inherent stress correlations in a quiescent two-dimensional liquid: Static analysis including finite-size effects. <i>Physical Review E</i> , 2017, 96, 052101.	0.8	24

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37	Nonperturbative Renormalization Group for Chaotic Coupled Map Lattices. Physical Review Letters, 1998, 80, 5528-5531.	2.9	23
38	Fluctuating Elasticity Fails to Capture Anomalous Sound Scattering in Amorphous Solids. Physical Review Letters, 2019, 123, 055501.	2.9	19
39	Dynamic Model of Super-Arrhenius Relaxation Rates in Glassy Materials. Physical Review Letters, 2005, 94, 175701.	2.9	18
40	Anomalous elasticity and plastic screening in amorphous solids. Physical Review E, 2021, 104, 024904.	0.8	17
41	Ultrafast spherulitic crystal growth as a stress-induced phenomenon specific of fragile glass-formers. Journal of Chemical Physics, 2012, 137, 114506.	1.2	16
42	Cluster Expansion for Collective Behavior in Discrete-Space Dynamical Systems. Physical Review Letters, 1996, 77, 486-489.	2.9	15
43	Stress correlations in frictional granular media. Physical Review B, 2021, 103, .	1.1	12
44	Conditional mean field for chaotic coupled map lattices. Europhysics Letters, 1997, 39, 377-382.	0.7	11
45	Phase-ordering and persistence: relative effects of space-discretization, chaos, and anisotropy. Physica A: Statistical Mechanics and Its Applications, 2000, 288, 326-337.	1.2	10
46	Publisher's Note: Origin of a Repose Angle: Kinetics of Rearrangement for Granular Materials [Phys. Rev. Lett. 89, 064303 (2002)]. Physical Review Letters, 2002, 89, .	2.9	10
47	Frictional Granular Matter: Protocol Dependence of Mechanical Properties. Physical Review Letters, 2021, 126, 075501.	2.9	10
48	Effects of the annealing of amorphous Ta2O5 coatings produced by ion beam sputtering concerning the effusion of argon and the chemical composition. Journal of Non-Crystalline Solids, 2021, 557, 120651.	1.5	10
49	Analytical results for generalized persistence properties of smooth processes. Journal of Physics A, 2000, 33, 7499-7513.	1.6	8
50	Yield Stress Aging in Attractive Colloidal Suspensions. Physical Review Letters, 2022, 128, 018003.	2.9	8
51	Renormalization Group for Strongly Coupled Maps. , 1999, 96, 915-962.		7
52	Rheology of thin films from flow observations. Experiments in Fluids, 2012, 53, 1289-1299.	1.1	6
53	Macroscopic model for collective behavior of chaotic coupled map lattices. Europhysics Letters, 1999, 46, 565-570.	0.7	5
54	Discontinuous Shear Thickening in Cornstarch Suspensions. EPJ Web of Conferences, 2017, 140, 09001.	0.1	5

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55	Key role of retardation and non-locality in sound propagation in amorphous solids as evidenced by a projection formalism. <i>Journal of Chemical Physics</i> , 2020, 153, 144502.	1.2	5
56	Argon and Other Defects in Amorphous SiO ₂ Coatings for Gravitational-Wave Detectors. <i>Coatings</i> , 2022, 12, 1001.	1.2	5
57	Giant vortices in the Ginzburg-Landau description of superconductivity. <i>Physical Review B</i> , 2001, 64, .	1.1	4
58	Numerical simulation of thin paint film flow. <i>Journal of Mathematics in Industry</i> , 2012, 2, 1.	0.7	4
59	Momentum transport in granular flows. <i>Computers and Mathematics With Applications</i> , 2008, 55, 175-183.	1.4	3
60	Effects of disorder and chain stiffening on the elasticity of flexible polymer networks. <i>Physical Review E</i> , 2017, 95, 032501.	0.8	2
61	Stress hyperuniformity and transient oscillatory-exponential correlation decay as signatures of strength vs fragility in glasses. <i>Journal of Chemical Physics</i> , 2021, 155, 194501.	1.2	2
62	Out-of-equilibrium Relaxation of a Time-dependent Effective Temperature. <i>Lecture Notes in Physics</i> , 2006, , 129-136.	0.3	1
63	Microstructural origin of compressive <i>in situ</i> stresses in electron-gun-evaporated silica thin films. <i>Physical Review Materials</i> , 2019, 3, .	0.9	1
64	Glass-like stress relaxation of a permanent gelatin network as a signature of pretransitional helix-coil fluctuations. <i>Journal of Chemical Physics</i> , 2018, 148, 054901.	1.2	0
65	Out-of-equilibrium Relaxation of a Time-dependent Effective Temperature. , 2006, , 129-136.		0