

Massimo Pica Ciamarra

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

1,866
citations

279487

23
h-index

315357

38
g-index

103
all docs

103
docs citations

103
times ranked

1643
citing authors

#	ARTICLE	IF	CITATIONS
1	Hidden-state modeling of a cross-section of geoelectric time series data can provide reliable intermediate-term probabilistic earthquake forecasting in Taiwan. <i>Natural Hazards and Earth System Sciences</i> , 2022, 22, 1931-1954.	1.5	0
2	Local Plastic Response and Slow Heterogeneous Dynamics of Supercooled Liquids. <i>Physical Review Letters</i> , 2022, 128, .	2.9	5
3	Mismatched ligand density enables ordered assembly of mixed-dimensional, cross-species materials. <i>Science Advances</i> , 2022, 8, .	4.7	3
4	Interplay between jamming and motility-induced phase separation in persistent self-propelling particles. <i>Physical Review E</i> , 2022, 106, .	0.8	3
5	Unconventional rheological properties in systems of deformable particles. <i>Soft Matter</i> , 2021, 17, 7708-7713.	1.2	2
6	Softness, anomalous dynamics, and fractal-like energy landscape in model cell tissues. <i>Physical Review E</i> , 2021, 103, 022607.	0.8	9
7	Mechanical disorder of sticky-sphere glasses. II. Thermomechanical inannealability. <i>Physical Review E</i> , 2021, 103, 022606.	0.8	12
8	Mechanical disorder of sticky-sphere glasses. I. Effect of attractive interactions. <i>Physical Review E</i> , 2021, 103, 022605.	0.8	23
9	In-silico modeling of early-stage biofilm formation. <i>Soft Materials</i> , 2021, 19, 346-358.	0.8	6
10	Hidden Order Beyond Hyperuniformity in Critical Absorbing States. <i>Physical Review Letters</i> , 2021, 126, 118003.	2.9	8
11	Designing Phononic Band Gaps With Sticky Potentials. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	3
12	Emergence of linear isotropic elasticity in amorphous and polycrystalline materials. <i>Physical Review E</i> , 2021, 103, 052606.	0.8	3
13	Jamming as a random first-order percolation transition. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 569, 125796.	1.2	0
14	Long-wavelength fluctuations and dimensionality crossover in confined liquids. <i>Physical Review Research</i> , 2021, 3, .	1.3	3
15	Liquid to supercooled-liquid crossover from a Boltzmann transport approach to escape and diffusion. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 104007.	0.7	1
16	Unifying Description of the Vibrational Anomalies of Amorphous Materials. <i>Physical Review Letters</i> , 2021, 127, 215504.	2.9	10
17	Entropy-controlled cross-linking in linker-mediated vitrimers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27111-27115.	3.3	19
18	Phase behavior of Lennard-Jones particles in two dimensions. <i>Physical Review E</i> , 2020, 102, 062101.	0.8	13

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19	Frictional active Brownian particles. <i>Physical Review E</i> , 2020, 102, 032612.	0.8	4
20	Attraction Tames Two-Dimensional Melting: From Continuous to Discontinuous Transitions. <i>Physical Review Letters</i> , 2020, 124, 218002.	2.9	30
21	Linker-mediated self-assembly of mobile DNA-coated colloids. <i>Science Advances</i> , 2020, 6, eaaz6921.	4.7	20
22	Hyperuniformity and density fluctuations at a rigidity transition in a model of biological tissues. <i>Soft Matter</i> , 2020, 16, 5942-5950.	1.2	11
23	Reverse Janssen Effect in Narrow Granular Columns. <i>Physical Review Letters</i> , 2020, 124, 128002.	2.9	18
24	Transition from Static to Dynamic Friction in an Array of Frictional Disks. <i>Physical Review Letters</i> , 2020, 124, 030602.	2.9	4
25	Role of Attractive Forces in the Relaxation Dynamics of Supercooled Liquids. <i>Physical Review Letters</i> , 2020, 124, 028001.	2.9	16
26	Hexatic phase in a model of active biological tissues. <i>Soft Matter</i> , 2020, 16, 3914-3920.	1.2	26
27	Self-Adaptation of <i>Pseudomonas fluorescens</i> Biofilms to Hydrodynamic Stress. <i>Frontiers in Microbiology</i> , 2020, 11, 588884.	1.5	17
28	Stability phase diagram of active Brownian particles. <i>Physical Review Research</i> , 2020, 2, .	1.3	17
29	Cluster approach to phase transitions from fluid to amorphous solids: gels, glasses and granular materials. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 384005.	0.7	0
30	Long-wavelength fluctuations and anomalous dynamics in 2-dimensional liquids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22977-22982.	3.3	18
31	Noise amplification in frictional systems: Oscillatory instabilities. <i>Physical Review E</i> , 2019, 100, 042901.	0.8	11
32	Oscillatory Instabilities in Frictional Granular Matter. <i>Physical Review Letters</i> , 2019, 123, 098003.	2.9	21
33	Nonequilibrium strongly hyperuniform fluids of circle active particles with large local density fluctuations. <i>Science Advances</i> , 2019, 5, eaau7423.	4.7	81
34	Accurate determination of the translational correlation function of two-dimensional solids. <i>Physical Review E</i> , 2019, 100, 062606.	0.8	11
35	Induced and endogenous acoustic oscillations in granular faults. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20170389.	1.6	7
36	Dynamics in two-dimensional glassy systems of crowded Penrose kites. <i>Physical Review Materials</i> , 2019, 3, .	0.9	7

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37	Synchronized oscillations and acoustic fluidization in confined granular materials. <i>Physical Review E</i> , 2018, 97, 010901.	0.8	3
38	Controlled Viscosity in Dense Granular Materials. <i>Physical Review Letters</i> , 2018, 120, 138001.	2.9	12
39	How one might miss early warning signals of critical transitions in time series data: A systematic study of two major currency pairs. <i>PLoS ONE</i> , 2018, 13, e0191439.	1.1	18
40	Role of cell deformability in the two-dimensional melting of biological tissues. <i>Physical Review Materials</i> , 2018, 2, .	0.9	37
41	Relaxation functions and dynamical heterogeneities in a model of chemical gel interfering with glass transition. <i>European Physical Journal: Special Topics</i> , 2017, 226, 323-329.	1.2	3
42	Escape rate and diffusion of a Stochastically Driven particle. <i>Scientific Reports</i> , 2017, 7, 41442.	1.6	3
43	Cage Size and Jump Precursors in Glass-Forming Liquids: Experiment and Simulations. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1562-1568.	2.1	26
44	Force percolation transition of jammed granular systems. <i>Physical Review E</i> , 2017, 96, 042901.	0.8	12
45	Nonaffinity in amorphous solids close to the jamming transition. <i>EPJ Web of Conferences</i> , 2017, 140, 02003.	0.1	0
46	Rattler-induced aging dynamics in jammed granular systems. <i>Soft Matter</i> , 2017, 13, 9132-9137.	1.2	13
47	Universal behaviour of the glass and the jamming transitions in finite dimensions for hard spheres. <i>Soft Matter</i> , 2017, 13, 8766-8771.	1.2	7
48	Many facets of intermittent dynamics in colloidal and molecular glasses. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 532, 87-96.	2.3	12
49	Effective antibodies immobilization and functionalized nanoparticles in a quartz-crystal microbalance-based immunosensor for the detection of parathion. <i>PLoS ONE</i> , 2017, 12, e0171754.	1.1	40
50	Unifying description of the damping regimes of a stochastic particle in a periodic potential. <i>SciPost Physics</i> , 2017, 3, .	1.5	1
51	Cluster structure and dynamics in gels and glasses. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 074011.	0.9	4
52	Cage-jump motion reveals universal dynamics and non-universal structural features in glass forming liquids. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 054050.	0.9	26
53	Emergence of linear elasticity from the atomistic description of matter. <i>Journal of Chemical Physics</i> , 2016, 145, 054507.	1.2	3
54	Simple and Flexible Model for Laser-Driven Antibody-Gold Surface Interactions: Functionalization and Sensing. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 21762-21769.	4.0	4

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55	Particle jumps in structural glasses. <i>Soft Matter</i> , 2016, 12, 358-366.	1.2	50
56	Dynamic Weakening by Acoustic Fluidization during Stick-Slip Motion. <i>Physical Review Letters</i> , 2015, 115, 128001.	2.9	24
57	Dynamic phase coexistence in glass-forming liquids. <i>Scientific Reports</i> , 2015, 5, 11770.	1.6	39
58	Spatial correlations of elementary relaxation events in glass-forming liquids. <i>Soft Matter</i> , 2015, 11, 7214-7218.	1.2	20
59	Dynamics and instantaneous normal modes in a liquid with density anomalies. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 194128.	0.7	2
60	Elastic models of the glass transition applied to a liquid with density anomalies. <i>Journal of Non-Crystalline Solids</i> , 2015, 407, 23-28.	1.5	2
61	Connecting short and long time dynamics in hard-sphere-like colloidal glasses. <i>Soft Matter</i> , 2015, 11, 622-626.	1.2	22
62	Size and density avalanche scaling near jamming. <i>Soft Matter</i> , 2014, 10, 2728.	1.2	11
63	Dynamical arrest: interplay of glass and gel transitions. <i>Soft Matter</i> , 2014, 10, 4800.	1.2	22
64	From cage-jump motion to macroscopic diffusion in supercooled liquids. <i>Soft Matter</i> , 2014, 10, 5724-5728.	1.2	50
65	Non-monotonic dependence of the friction coefficient on heterogeneous stiffness. <i>Scientific Reports</i> , 2014, 4, 6772.	1.6	5
66	Elasticity of compressed microgel suspensions. <i>Soft Matter</i> , 2013, 9, 5401.	1.2	44
67	High-order jamming crossovers and density anomalies. <i>Soft Matter</i> , 2013, 9, 9557.	1.2	11
68	The first jamming crossover: Geometric and mechanical features. <i>Journal of Chemical Physics</i> , 2013, 138, 12A529.	1.2	7
69	PACMAN PERCOLATION AND THE GLASS TRANSITION. <i>Fractals</i> , 2013, 21, 1350021.	1.8	14
70	Density anomalies and high-order jamming crossovers. , 2013, , .		0
71	Solid-on-solid single-block dynamics under mechanical vibration. <i>Physical Review E</i> , 2012, 86, 016110.	0.8	11
72	The Role of Interstitial Impurities in the Frictional Instability of Seismic Fault Models. <i>Tribology Letters</i> , 2012, 48, 89-94.	1.2	5

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73	Statistical mechanics for static granular media: open questions. <i>Soft Matter</i> , 2012, 8, 9731.	1.2	33
74	Absence of "fragility" and mechanical response of jammed granular materials. <i>Granular Matter</i> , 2012, 14, 253-258.	1.1	7
75	Jamming phase diagram for frictional particles. <i>Physical Review E</i> , 2011, 84, 041308.	0.8	76
76	Statistics of slipping event sizes in granular seismic fault models. <i>Europhysics Letters</i> , 2011, 95, 54002.	0.7	18
77	"Flow and jam" of frictional athermal systems under shear stress. <i>Philosophical Magazine</i> , 2011, 91, 2006-2013.	0.7	13
78	Dynamical Correlation Length and Relaxation Processes in a Glass Former. <i>Physical Review Letters</i> , 2011, 107, 065703.	2.9	21
79	Disordered jammed packings of frictionless spheres. <i>Soft Matter</i> , 2010, 6, 2975.	1.2	26
80	Unjamming Dynamics: The Micromechanics of a Seismic Fault Model. <i>Physical Review Letters</i> , 2010, 104, 238001.	2.9	38
81	COMPLEX FLOW IN GRANULAR MEDIA. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2010, 13, 339-347.	0.9	0
82	Recent results on the jamming phase diagram. <i>Soft Matter</i> , 2010, 6, 2871.	1.2	56
83	Commentary on "Effect of temperature on a granular pile". <i>Papers in Physics</i> , 2010, 2, .	0.2	1
84	Jamming at Zero Temperature, Zero Friction, and Finite Applied Shear Stress. <i>Physical Review Letters</i> , 2009, 103, 235701.	2.9	32
85	GRANULAR FAILURE: THE ORIGIN OF EARTHQUAKES?. <i>International Journal of Modern Physics B</i> , 2009, 23, 5374-5382.	1.0	5
86	STATISTICAL MECHANICS OF STATIC GRANULAR PACKINGS UNDER GRAVITY. <i>International Journal of Modern Physics B</i> , 2009, 23, 5345-5358.	1.0	1
87	Random Very Loose Packings. <i>Physical Review Letters</i> , 2008, 101, 128001.	2.9	53
88	Flow, Ordering, and Jamming of Sheared Granular Suspensions. <i>Physical Review Letters</i> , 2008, 100, 078001.	2.9	38
89	Correlations and Omori law in spamming. <i>Europhysics Letters</i> , 2008, 84, 28004.	0.7	8
90	UNIVERSALITY IN CITY MORPHOLOGY AND THE MORPHOLOGY OF A CITY AND ITS IMPLICATIONS FOR CITY EVACUATION PLANS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2007, 10, 373-377.	0.9	2

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91	Comment on "Granular Entropy: Explicit Calculations for Planar Assemblies" Physical Review Letters, 2007, 99, 089401; author reply 089402.	2.9	9
92	Granular packs under vertical tapping: Structure evolution, grain motion, and dynamical heterogeneities. Physical Review E, 2007, 75, 021303.	0.8	20
93	Granular Species Segregation under Vertical Tapping: Effects of Size, Density, Friction, and Shaking Amplitude. Physical Review Letters, 2006, 96, 058001.	2.9	69
94	Thermodynamics and Statistical Mechanics of Dense Granular Media. Physical Review Letters, 2006, 97, 158001.	2.9	70
95	Random walk, cluster growth, and the morphology of urban conglomerations. Physica A: Statistical Mechanics and Its Applications, 2006, 363, 551-557.	1.2	1
96	Dynamically Induced Effective Interaction in Periodically Driven Granular Mixtures. Physical Review Letters, 2006, 97, 038001.	2.9	16
97	Shear-induced segregation of a granular mixture under horizontal oscillation. Journal of Physics Condensed Matter, 2005, 17, S2549-S2556.	0.7	14
98	Shear Instabilities in Granular Mixtures. Physical Review Letters, 2005, 94, 188001.	2.9	71
99	Statistical mechanics of dense granular media. Journal of Physics Condensed Matter, 2005, 17, S2557-S2572.	0.7	3
100	On Edwards's™ theory of powders. Physica A: Statistical Mechanics and Its Applications, 2004, 339, 1-6.	1.2	6
101	Dynamics of Drag and Force Distributions for Projectile Impact in a Granular Medium. Physical Review Letters, 2004, 92, 194301.	2.9	139
102	Quantum Reversibility and a New Model of Quantum Automaton. Lecture Notes in Computer Science, 2001, , 376-379.	1.0	15