Stefano Mossa

List of Publications by Year
in descending order

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Version: 2024-02-01

60 papers	4,566 citations	159585 30 h-index	123424 61 g-index
62 all docs	62 docs citations	62 times ranked	4654 citing authors

#	Article	IF	Citations
1	Time correlation functions for quantum systems: Validating Bayesian approaches for harmonic oscillators and beyond. Journal of Chemical Physics, 2021, 155, 134108.	3.0	1
2	From Ionic Surfactants to Nafion through Convolutional Neural Networks. Journal of Physical Chemistry B, 2020, 124, 8918-8927.	2.6	7
3	Intermittent rearrangements accompanying thermal fluctuations distinguish glasses from crystals. Journal of Chemical Physics, 2020, 153, 154501.	3.0	5
4	Sound damping in glasses: Interplay between anharmonicities and elastic heterogeneities. Physical Review B, 2020, 101, .	3.2	15
5	The effect of polymorphism on the structural, dynamic and dielectric properties of plastic crystal water: A molecular dynamics simulation perspective. Journal of Chemical Physics, 2019, 150, 124506.	3.0	13
6	Anharmonic thermodynamics of vacancies using a neural network potential. Physical Review Materials, 2019, 3, .	2.4	14
7	Impact of elastic heterogeneity on the propagation of vibrations at finite temperatures in glasses. Condensed Matter Physics, 2019, 22, 43604.	0.7	13
8	Re-entrant Phase Transitions and Dynamics of a Nanoconfined Ionic Liquid. Physical Review X, 2018, 8, .	8.9	5
9	Solvent and Salt Effect on Lithium Ion Solvation and Contact Ion Pair Formation in Organic Carbonates: A Quantum Chemical Perspective. Journal of Physical Chemistry C, 2018, 122, 25930-25939.	3.1	31
10	Water sub-diffusion in membranes for fuel cells. Scientific Reports, 2017, 7, 8326.	3.3	54
11	Polymer translocation through nano-pores in vibrating thin membranes. Scientific Reports, 2016, 6, 38558.	3.3	28
12	Structure and dynamics of liquid CS2: Going from ambient to elevated pressure conditions. Journal of Chemical Physics, 2016, 145, 154505.	3.0	8
13	The Anion Effect on Li⁺ Ion Coordination Structure in Ethylene Carbonate Solutions. Journal of Physical Chemistry Letters, 2016, 7, 3554-3559.	4.6	42
14	Cutoff nonlinearities in the low-temperature vibrations of glasses and crystals. Physical Review E, 2016, 93, 043314.	2.1	14
15	Relation of vibrational excitations and thermal conductivity to elastic heterogeneities in disordered solids. Physical Review B, 2016, 94, .	3.2	31
16	Sub-diffusion and population dynamics of water confined in soft environments. Nanoscale, 2016, 8, 3314-3325.	5.6	20
17	Beating the amorphous limit in thermal conductivity by superlattices design. Scientific Reports, 2015, 5, 14116.	3.3	54
18	Morphology of Supported Polymer Electrolyte Ultrathin Films: A Numerical Study. Journal of Physical Chemistry C, 2015, 119, 1201-1216.	3.1	52

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19	Li⁺ Solvation in Pure, Binary, and Ternary Mixtures of Organic Carbonate Electrolytes. Journal of Physical Chemistry C, 2015, 119, 4502-4515.	3.1	110
20	Water confined in self-assembled ionic surfactant nano-structures. Soft Matter, 2015, 11, 2469-2478.	2.7	13
21	Acoustic excitations and elastic heterogeneities in disordered solids. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11949-11954.	7.1	67
22	Inhomogeneous Transport in Model Hydrated Polymer Electrolyte Supported Ultrathin Films. ACS Nano, 2013, 7, 6767-6773.	14.6	50
23	Elastic heterogeneity, vibrational states, and thermal conductivity across an amorphisation transition. Europhysics Letters, 2013, 104, 56001.	2.0	58
24	Effect of Surface Hydrophilicity on the Formation of Nafion Thin Films Inside PEMFC Catalyst Layers: A Computational Study. ECS Transactions, 2013, 45, 101-108.	0.5	8
25	Measuring spatial distribution of the local elastic modulus in glasses. Physical Review E, 2013, 87, 042306.	2.1	104
26	Non-conservative forces and effective temperatures in active polymers. Soft Matter, 2011, 7, 10193.	2.7	80
27	Effective temperature of active complex matter. Soft Matter, 2011, 7, 3726.	2.7	79
28	Anomalous properties of the acoustic excitations in glasses on the mesoscopic length scale. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16907-16912.	7.1	124
29	Effective temperature of active matter. Physical Review E, 2008, 77, 051111.	2.1	163
30	Aging in a Laponite colloidal suspension: A Brownian dynamics simulation study. Journal of Chemical Physics, 2007, 126, 014905.	3.0	32
31	An operational scheme to determine the locally preferred structure of model liquids. Journal of Non-Crystalline Solids, 2006, 352, 4847-4850.	3.1	14
32	Routes to colloidal gel formation. Computer Physics Communications, 2005, 169, 166-171.	7.5	52
33	The worldwide air transportation network: Anomalous centrality, community structure, and cities' global roles. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7794-7799.	7.1	1,377
34	Liquid stability in a model for ortho-terphenyl. Journal of Chemical Physics, 2004, 120, 6128-6134.	3.0	11
35	Vibrational dynamics and thermodynamics, ideal glass transitions and folding transitions, in liquids and biopolymers. AIP Conference Proceedings, 2004, , .	0.4	15
36	Response to: â€œComment on â€˜Disentangling density and temperature effects in the viscous slowing down of glassforming liquidsâ€™â€‰â€•[J. Chem. Phys. 121, 11503 (2004)]. Journal of Chemical Physics, 2004, 121, 11505.	3.0	9

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37	Equilibrium Cluster Phases and Low-Density Arrested Disordered States: The Role of Short-Range Attraction and Long-Range Repulsion. Physical Review Letters, 2004, 93, 055701.	7.8	434
38	Ground-State Clusters for Short-Range Attractive and Long-Range Repulsive Potentials. Langmuir, 2004, 20, 10756-10763.	3.5	187
39	Crossover (or Kovacs) Effect in an Aging Molecular Liquid. Physical Review Letters, 2004, 92, 045504.	7.8	78
40	Disentangling density and temperature effects in the viscous slowing down of glassforming liquids. Journal of Chemical Physics, 2004, 120, 6135-6141.	3.0	113
41	Application of Statistical Physics to Understand Static and Dynamic Anomalies in Liquid Water. Journal of Statistical Physics, 2003, 110, 1039-1054.	1.2	23
42	Locally preferred structure in simple atomic liquids. Journal of Chemical Physics, 2003, 119, 8069-8074.	3.0	45
43	Potential energy, relaxation, vibrational dynamics and the boson peak, of hyperquenched glasses. Journal of Physics Condensed Matter, 2003, 15, S1051-S1068.	1.8	123
44	Equilibrium and out-of-equilibrium thermodynamics in supercooled liquids and glasses. Journal of Physics Condensed Matter, 2003, 15, S351-S357.	1.8	8
45	Numerical evaluation of the statistical properties of a potential energy landscape. Journal of Physics Condensed Matter, 2003, 15, S1085-S1094.	1.8	21
46	Truncation of Power Law Behavior in â€œScale-Freeâ€•Network Models due to Information Filtering. Physical Review Letters, 2002, 88, 138701.	7.8	172
47	Orientational and induced contributions to the depolarized Rayleigh spectra of liquid and supercooled ortho-terphenyl. Journal of Chemical Physics, 2002, 117, 3289-3295.	3.0	8
48	Molecular dynamics simulation study of the high frequency sound waves in the fragile glass former orthoterphenyl. Journal of Chemical Physics, 2002, 116, 1077-1084.	3.0	9
49	Quenches and crunches: Does the system explore in ageing the same part of the configuration space explored in equilibrium?. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 695-705.	0.6	6
50	Vibrational origin of the fast relaxation processes in molecular glass formers. Europhysics Letters, 2002, 60, 92-98.	2.0	7
51	Potential Energy Landscape Equation of State. Physical Review Letters, 2002, 88, 225701.	7.8	70
52	Interplay between Time-Temperature Transformation and the Liquid-Liquid Phase Transition in Water. Physical Review Letters, 2002, 88, 195701.	7.8	225
53	Statistical physics and liquid water at negative pressures. Physica A: Statistical Mechanics and Its Applications, 2002, 315, 281-289.	2.6	32
54	Dynamics and configurational entropy in the Lewis-WahnstrÃ¶m model for supercooled orthoterphenyl. Physical Review E, 2002, 65, 041205.	2.1	98

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55	Aging and energy landscapes: application to liquids and glasses. European Physical Journal B, 2002, 30, 351-355.	1.5	25
56	Quenches and crunches: does the system explore in ageing the same part of the configuration space explored in equilibrium?. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 695-705.	0.6	6
57	Water at Positive and Negative Pressures. , 2002, , 59-67.		1
58	Molecular dynamics simulation of the fragile glass former orthoterphenyl: A flexible molecule model. II. Collective dynamics. Physical Review E, 2001, 64, 021511.	2.1	23
59	Molecular dynamics simulation of the fragile glass-former orthoterphenyl: A flexible molecule model. Physical Review E, 2000, 62, 612-630.	2.1	60
60	Glassy Potts model: A disordered Potts model without a ferromagnetic phase. Physical Review B, 1999, 59, 8401-8404.	3.2	17