Raffaele Pastore

List of Publications by Year
in descending order

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37 papers	590 citations	623188 14 h-index	642321 23 g-index
38 all docs	38 docs citations	38 times ranked	581 citing authors

#	Article	IF	Citations
1	Jamming phase diagram for frictional particles. Physical Review E, 2011, 84, 041308.	0.8	76
2	From cage-jump motion to macroscopic diffusion in supercooled liquids. Soft Matter, 2014, 10, 5724-5728.	1.2	50
3	Particle jumps in structural glasses. Soft Matter, 2016, 12, 358-366.	1.2	50
4	Dynamic phase coexistence in glassâ€“forming liquids. Scientific Reports, 2015, 5, 11770.	1.6	39
5	Rapid Fickian Yet Non-Gaussian Diffusion after Subdiffusion. Physical Review Letters, 2021, 126, 158003.	2.9	37
6	Cage-jump motion reveals universal dynamics and non-universal structural features in glass forming liquids. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 054050.	0.9	26
7	Cage Size and Jump Precursors in Glass-Forming Liquids: Experiment and Simulations. Journal of Physical Chemistry Letters, 2017, 8, 1562-1568.	2.1	26
8	Fickian Non-Gaussian Diffusion in Glass-Forming Liquids. Physical Review Letters, 2022, 128, 168001.	2.9	23
9	Connecting short and long time dynamics in hard-sphere-like colloidal glasses. Soft Matter, 2015, 11, 622-626.	1.2	22
10	Dynamical Correlation Length and Relaxation Processes in a Glass Former. Physical Review Letters, 2011, 107, 065703.	2.9	21
11	Differential Variance Analysis: a direct method to quantify and visualize dynamic heterogeneities. Scientific Reports, 2017, 7, 43496.	1.6	21
12	Spatial correlations of elementary relaxation events in glass-forming liquids. Soft Matter, 2015, 11, 7214-7218.	1.2	20
13	Effects of chemically heterogeneous nanoparticles on polymer dynamics: insights from molecular dynamics simulations. Soft Matter, 2018, 14, 1219-1226.	1.2	16
14	Glassy dynamics of a polymer monolayer on a heterogeneous disordered substrate. Soft Matter, 2015, 11, 8083-8091.	1.2	15
15	Influence of wall heterogeneity on nanoscopically confined polymers. Physical Chemistry Chemical Physics, 2019, 21, 772-779.	1.3	15
16	PACMAN PERCOLATION AND THE GLASS TRANSITION. Fractals, 2013, 21, 1350021.	1.8	14
17	â€˜Flow and jamâ€™ of frictional athermal systems under shear stress. Philosophical Magazine, 2011, 91, 2006-2013.	0.7	13
18	A model-system of Fickian yet non-Gaussian diffusion: light patterns in place of complex matter. Soft Matter, 2022, 18, 351-364.	1.2	13

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19	Many facets of intermittent dynamics in colloidal and molecular glasses. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 532, 87-96.	2.3	12
20	Origin of Charge Separation at Organic Photovoltaic Heterojunctions: A Mesoscale Quantum Mechanical View. Journal of Physical Chemistry C, 2017, 121, 16693-16701.	1.5	10
21	Tailoring Chitosan/LTA Zeolite Hybrid Aerogels for Anionic and Cationic Dye Adsorption. International Journal of Molecular Sciences, 2021, 22, 5535.	1.8	10
22	Absence of â€˜fragilityâ€™ and mechanical response of jammed granular materials. Granular Matter, 2012, 14, 253-258.	1.1	7
23	Anomalous Aging and Stress Relaxation in Macromolecular Physical Gels: The Case of Strontium Alginate. Macromolecules, 2020, 53, 649-657.	2.2	7
24	Concentrated suspensions of Brownian beads in water: dynamic heterogeneities through a simple experimental technique. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	2.0	6
25	Linestrength ratio spectroscopy as a new primary thermometer for redefined Kelvin dissemination. New Journal of Physics, 2019, 21, 113008.	1.2	6
26	Understanding charged vesicle suspensions as Wigner glasses: dynamical aspects. Journal of Physics Condensed Matter, 2021, 33, 104001.	0.7	6
27	Homeostatic swimming of zooplankton upon crowding: the case of the copepod Centropages typicus. Journal of the Royal Society Interface, 2021, 18, 20210270.	1.5	5
28	Breakdown of the Stokesâ€“Einstein relation in supercooled liquids: A cage-jump perspective. Journal of Chemical Physics, 2021, 155, 114503.	1.2	5
29	Cluster structure and dynamics in gels and glasses. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 074011.	0.9	4
30	Elastic and Dynamic Heterogeneity in Aging Alginate Gels. Polymers, 2021, 13, 3618.	2.0	4
31	Comparing Microscopic and Macroscopic Dynamics in a Paradigmatic Model of Glass-Forming Molecular Liquid. International Journal of Molecular Sciences, 2022, 23, 3556.	1.8	4
32	Relaxation functions and dynamical heterogeneities in a model of chemical gel interfering with glass transition. European Physical Journal: Special Topics, 2017, 226, 323-329.	1.2	3
33	Distinctive diffusive properties of swimming planktonic copepods in different environmental conditions. European Physical Journal E, 2018, 41, 79.	0.7	2
34	Multiscale heterogeneous dynamics in two-dimensional glassy colloids. Journal of Chemical Physics, 2022, 156, 164906.	1.2	2
35	Dissipated energy and entropy production for an unconventional heat engine: the stepwise â€˜circular cycleâ€™. Philosophical Magazine, 2011, 91, 1864-1876.	0.7	0
36	Pacman percolation and the glass transition. , 2014, , 181-195.		0

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37	Glasses and gels: a crossroad of molecular liquids, polymers and colloids. Journal of Physics Condensed Matter, 2022, 34, 090401.	0.7	0