

Francesco Puosi

List of Publications by Year in descending order

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34
papers

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citations

623188

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26
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35
all docs

35
docs citations

35
times ranked

536
citing authors

#	ARTICLE	IF	CITATIONS
1	Johari-Goldstein Heterogeneous Dynamics in a Model Polymer. <i>Macromolecules</i> , 2021, 54, 2053-2058.	2.2	11
2	Open and Anisotropic Soft Regions in a Model Polymer Glass. <i>Polymers</i> , 2021, 13, 1336.	2.0	0
3	Mutual Information in Molecular and Macromolecular Systems. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9577.	1.8	2
4	Nanoscale Elastoplastic Wrinkling of Ultrathin Molecular Films. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11732.	1.8	1
5	Evidence of negative thermal expansion in supercooled tantalum. <i>Journal of Non-Crystalline Solids</i> , 2021, 577, 121308.	1.5	0
6	Non-local cooperative atomic motions that govern dissipation in amorphous tantalum unveiled by dynamical mechanical spectroscopy. <i>Acta Materialia</i> , 2020, 201, 1-6.	3.8	1
7	Predictive relation for the τ_{\pm} -relaxation time of a coarse-grained polymer melt under steady shear. <i>Science Advances</i> , 2020, 6, eaaz0777.	4.7	45
8	Coincident Correlation between Vibrational Dynamics and Primary Relaxation of Polymers with Strong or Weak Johari-Goldstein Relaxation. <i>Polymers</i> , 2020, 12, 761.	2.0	6
9	Metallic glass-formers in 2D exhibit the same scaling as in 3D between vibrational dynamics and structural relaxation. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 085701.	0.7	0
10	Nucleation kinetics in a supercooled metallic glass former. <i>Acta Materialia</i> , 2019, 174, 387-397.	3.8	15
11	Fast Vibrational Modes and Slow Heterogeneous Dynamics in Polymers and Viscous Liquids. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5708.	1.8	10
12	Vibrational scaling of the heterogeneous dynamics detected by mutual information. <i>European Physical Journal E</i> , 2019, 42, 146.	0.7	2
13	Dynamic slowing-down and crystal nucleation in a supercooled metallic glass former induced by local icosahedral order. <i>Physical Review Materials</i> , 2019, 3, .	0.9	5
14	In silico broadband mechanical spectroscopy of amorphous tantalum. <i>Physical Review Research</i> , 2019, 1, .	1.3	8
15	Dynamical, structural and chemical heterogeneities in a binary metallic glass-forming liquid. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 145701.	0.7	16
16	Communication: Fast dynamics perspective on the breakdown of the Stokes-Einstein law in fragile glassformers. <i>Journal of Chemical Physics</i> , 2018, 148, 131102.	1.2	14
17	Thermodynamic scaling of relaxation: insights from anharmonic elasticity. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 135101.	0.7	13
18	Thermodynamic scaling of vibrational dynamics and relaxation. <i>Journal of Chemical Physics</i> , 2016, 145, 234904.	1.2	35

#	ARTICLE	IF	CITATIONS
19	Plastic response and correlations in athermally sheared amorphous solids. <i>Physical Review E</i> , 2016, 94, 032604.	0.8	11
20	Direct calculation of the critical Casimir force in a binary fluid. <i>Physical Review E</i> , 2016, 94, 040102.	0.8	10
21	Driving Rate Dependence of Avalanche Statistics and Shapes at the Yielding Transition. <i>Physical Review Letters</i> , 2016, 116, 065501.	2.9	107
22	Elastic consequences of a single plastic event: Towards a realistic account of structural disorder and shear wave propagation in models of flowing amorphous solids. <i>Journal of the Mechanics and Physics of Solids</i> , 2015, 78, 333-351.	2.3	18
23	Weak links between fast mobility and local structure in molecular and atomic liquids. <i>Journal of Chemical Physics</i> , 2015, 142, 124504.	1.2	12
24	The kinetic fragility of liquids as manifestation of the elastic softening. <i>European Physical Journal E</i> , 2015, 38, 87.	0.7	24
25	Probing relevant ingredients in mean-field approaches for the athermal rheology of yield stress materials. <i>Soft Matter</i> , 2015, 11, 7639-7647.	1.2	33
26	Cage rattling does not correlate with the local geometry in molecular liquids. <i>Journal of Non-Crystalline Solids</i> , 2015, 407, 29-33.	1.5	11
27	Time-dependent elastic response to a local shear transformation in amorphous solids. <i>Physical Review E</i> , 2014, 89, 042302.	0.8	56
28	Comment on "Generalized localization model of relaxation in glass-forming liquids". <i>Soft Matter</i> , 2013, 9, 7890.	1.2	12
29	Competition of the connectivity with the local and the global order in polymer melts and crystals. <i>Journal of Chemical Physics</i> , 2013, 139, 184501.	1.2	12
30	Scaling between relaxation, transport and caged dynamics in a binary mixture on a per-component basis. <i>Journal of Chemical Physics</i> , 2013, 138, 12A532.	1.2	27
31	Communication: Correlation of the instantaneous and the intermediate-time elasticity with the structural relaxation in glassforming systems. <i>Journal of Chemical Physics</i> , 2012, 136, 041104.	1.2	70
32	Communication: Fast and local predictors of the violation of the Stokes-Einstein law in polymers and supercooled liquids. <i>Journal of Chemical Physics</i> , 2012, 136, 211101.	1.2	20
33	Spatial displacement correlations in polymeric systems. <i>Journal of Chemical Physics</i> , 2012, 136, 164901.	1.2	38
34	Scaling between Relaxation, Transport, and Caged Dynamics in Polymers: From Cage Restructuring to Diffusion. <i>Journal of Physical Chemistry B</i> , 2011, 115, 14046-14051.	1.2	36