

Francesco Turci

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

664
citations

567281

15
h-index

580821

25
g-index

39
all docs

39
docs citations

39
times ranked

707
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystallization mechanism in melts of short n-alkane chains. <i>Journal of Chemical Physics</i> , 2013, 139, 214904.	3.0	62
2	Local structure in deeply supercooled liquids exhibits growing lengthscales and dynamical correlations. <i>Nature Communications</i> , 2018, 9, 3272.	12.8	61
3	Experimental Evidence for a Structural-Dynamical Transition in Trajectory Space. <i>Physical Review Letters</i> , 2017, 119, 028004.	7.8	40
4	The race to the bottom: approaching the ideal glass?. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 363001.	1.8	39
5	Nonequilibrium Phase Transition in an Atomistic Glassformer: The Connection to Thermodynamics. <i>Physical Review X</i> , 2017, 7, .	8.9	35
6	From Glass Formation to Icosahedral Ordering by Curving Three-Dimensional Space. <i>Physical Review Letters</i> , 2017, 118, 215501.	7.8	33
7	Phase Separation and Multibody Effects in Three-Dimensional Active Brownian Particles. <i>Physical Review Letters</i> , 2021, 126, 038002.	7.8	33
8	3D assessment of intervertebral disc degeneration in zebrafish identifies changes in bone density that prime disc disease. <i>Bone Research</i> , 2021, 9, 39.	11.4	31
9	Transport on a lattice with dynamical defects. <i>Physical Review E</i> , 2013, 87, 012705.	2.1	25
10	The nature of geometric frustration in the Kob-Andersen mixture. <i>Journal of Chemical Physics</i> , 2015, 143, 044503.	3.0	25
11	Direct observation in 3d of structural crossover in binary hard sphere mixtures. <i>Journal of Chemical Physics</i> , 2016, 144, 144506.	3.0	22
12	Solid phase properties and crystallization in simple model systems. <i>European Physical Journal: Special Topics</i> , 2014, 223, 421-438.	2.6	18
13	Local structure of percolating gels at very low volume fractions. <i>Journal of Chemical Physics</i> , 2017, 146, 014905.	3.0	18
14	Effects of vertical confinement on gelation and sedimentation of colloids. <i>Soft Matter</i> , 2017, 13, 3230-3239.	2.7	18
15	Morphometric Approach to Many-Body Correlations in Hard Spheres. <i>Physical Review Letters</i> , 2019, 122, 068004.	7.8	16
16	Dynamical phase transitions and their relation to structural and thermodynamic aspects of glass physics. <i>Journal of Chemical Physics</i> , 2020, 153, 090901.	3.0	16
17	Driving kinetically constrained models into nonequilibrium steady states: Structural and slow transport properties. <i>Physical Review E</i> , 2012, 86, 031112.	2.1	15
18	Experimental determination of configurational entropy in a two-dimensional liquid under random pinning. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 094003.	1.8	15

#	ARTICLE	IF	CITATIONS
19	Structural Ordering in Liquid Gallium under Extreme Conditions. <i>Physical Review Letters</i> , 2020, 124, 145501.	7.8	15
20	Large deviations and heterogeneities in a driven kinetically constrained model. <i>Europhysics Letters</i> , 2011, 94, 10003.	2.0	13
21	Low-Density Crystals in Charged Colloids: Comparison with Yukawa Theory. <i>Contributions To Plasma Physics</i> , 2015, 55, 172-179.	1.1	12
22	Structural-dynamical transition in the Wahnström mixture. <i>European Physical Journal E</i> , 2018, 41, 54.	1.6	12
23	Wetting Transition of Active Brownian Particles on a Thin Membrane. <i>Physical Review Letters</i> , 2021, 127, 238002.	7.8	12
24	Direct imaging of contacts and forces in colloidal gels. <i>Journal of Chemical Physics</i> , 2022, 156, .	3.0	11
25	Coupling of sedimentation and liquid structure: Influence on hard sphere nucleation. <i>Journal of Chemical Physics</i> , 2018, 149, 204506.	3.0	10
26	Competing active and passive interactions drive amoebalike crystallites and ordered bands in active colloids. <i>Physical Review E</i> , 2020, 102, 032609.	2.1	10
27	The devil is in the details: pentagonal bipyramids and dynamic arrest. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020, 2020, 014001.	2.3	9
28	Long-lived non-equilibrium interstitial solid solutions in binary mixtures. <i>Journal of Chemical Physics</i> , 2017, 147, 124504.	3.0	6
29	Weak temperature dependence of ageing of structural properties in atomistic model glassformers. <i>Journal of Chemical Physics</i> , 2017, 147, 054501.	3.0	5
30	Dominating lengthscales of zebrafish collective behaviour. <i>PLoS Computational Biology</i> , 2022, 18, e1009394.	3.2	5
31	DYNAMICAL HETEROGENEITIES IN A TWO-DIMENSIONAL DRIVEN GLASSY MODEL: CURRENT FLUCTUATIONS AND FINITE SIZE EFFECTS. <i>Fluctuation and Noise Letters</i> , 2012, 11, 1242007.	1.5	4
32	Structural covariance in the hard sphere fluid. <i>Journal of Chemical Physics</i> , 2018, 148, 204511.	3.0	4
33	Crystal growth from a supersaturated melt: Relaxation of the solid-liquid dynamic stiffness. <i>Journal of Chemical Physics</i> , 2014, 141, 054706.	3.0	3
34	Crystallisation driven by sedimentation: a particle resolved study. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 084004.	2.3	3
35	Devitrification of the Kob-Andersen glass former: Competition with the locally favored structure. <i>Journal of Physics: Conference Series</i> , 2019, 1252, 012012.	0.4	3
36	Controlling local order of athermal self-propelled particles. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 124001.	2.3	2

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37	Dynamical solid-liquid transition through oscillatory shear. <i>Soft Matter</i> , 2019, 15, 4371-4379.	2.7	2
38	Many-body correlations from integral geometry. <i>Physical Review E</i> , 2019, 100, 062126.	2.1	1