

Hua Tong

List of Publications by Year in descending order

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papers

734
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623734

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all docs

29
docs citations

29
times ranked

718
citing authors

#	ARTICLE	IF	CITATIONS
1	Revealing key structural features hidden in liquids and glasses. Nature Reviews Physics, 2019, 1, 333-348.	26.6	134
2	Revealing Hidden Structural Order Controlling Both Fast and Slow Glassy Dynamics in Supercooled Liquids. Physical Review X, 2018, 8, .	8.9	75
3	Structural order as a genuine control parameter of dynamics in simple glass formers. Nature Communications, 2019, 10, 5596.	12.8	56
4	Density Affects the Nature of the Hexatic-Liquid Transition in Two-Dimensional Melting of Soft-Core Systems. Physical Review Letters, 2016, 117, 085702.	7.8	53
5	From Crystals to Disordered Crystals: A Hidden Order-Disorder Transition. Scientific Reports, 2015, 5, 15378.	3.3	49
6	Order parameter for structural heterogeneity in disordered solids. Physical Review E, 2014, 90, 010401.	2.1	36
7	Fast crystal growth at ultra-low temperatures. Nature Materials, 2021, 20, 1431-1439.	27.5	36
8	Theory of excitons in cubic III-V semiconductor GaAs, InAs and GaN quantum dots: Fine structure and spin relaxation. Physical Review B, 2011, 83, .	3.2	35
9	Role of Attractive Interactions in Structure Ordering and Dynamics of Glass-Forming Liquids. Physical Review Letters, 2020, 124, 225501.	7.8	30
10	Morphology selection kinetics of crystallization in a sphere. Nature Physics, 2021, 17, 121-127.	16.7	27
11	Emergent solidity of amorphous materials as a consequence of mechanical self-organisation. Nature Communications, 2020, 11, 4863.	12.8	26
12	Electron spin relaxation in GaAs $_{1-x}$ Bi $_x$: Effects of spin-orbit tuning by Bi incorporation. Journal of Applied Physics, 2012, 112, 063701.	2.5	25
13	Revealing Inherent Structural Characteristics of Jammed Particulate Packings. Physical Review Letters, 2019, 122, 215502.	7.8	19
14	Friction-Controlled Entropy-Stability Competition in Granular Systems. Physical Review Letters, 2020, 125, 268005.	7.8	17
15	Experimental Test of the Edwards Volume Ensemble for Tapped Granular Packings. Physical Review Letters, 2021, 127, 018002.	7.8	14
16	Multivalley spin relaxation in n -type bulk GaAs in the presence of high electric fields. Physical Review B, 2012, 85, .	3.2	13
17	Revealing thermally-activated nucleation pathways of diffusionless solid-to-solid transition. Nature Communications, 2021, 12, 4042.	12.8	13
18	Emergence and percolation of rigid domains during the colloidal glass transition. Physical Review E, 2019, 99, 062610.	2.1	12

#	ARTICLE	IF	CITATIONS
19	Role of disorder in determining the vibrational properties of mass-spring networks. <i>Frontiers of Physics</i> , 2017, 12, 1.	5.0	11
20	Strongly modulated transmissions in gapped armchair graphene nanoribbons with side-arm or on-site gate voltage. <i>Physical Review B</i> , 2012, 85, .	3.2	9
21	Achieving adjustable elasticity with non-affine to affine transition. <i>Nature Materials</i> , 2021, 20, 1635-1642.	27.5	9
22	Realizing negative Poisson's ratio in spring networks with close-packed lattice geometries. <i>Physical Review Materials</i> , 2019, 3, .	2.4	9
23	A universal state and its relaxation mechanisms of long-range interacting polygons. <i>Nature Communications</i> , 2019, 10, 1737.	12.8	7
24	Intermittent rearrangements accompanying thermal fluctuations distinguish glasses from crystals. <i>Journal of Chemical Physics</i> , 2020, 153, 154501.	3.0	5
25	Mechanical properties of jammed packings of frictionless spheres under an applied shear stress. <i>Chinese Physics B</i> , 2014, 23, 116105.	1.4	4
26	Coupling between Particle Shape and Long-Range Interaction in the High-Density Regime. <i>Chinese Physics Letters</i> , 2020, 37, 086301.	3.3	3
27	Decoupling between thermodynamics and dynamics during rejuvenation in colloidal glasses. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020, 2020, 024007.	2.3	3
28	Jamming in confined geometry: Criticality of the jamming transition and implications of structural relaxation in confined supercooled liquids*. <i>Chinese Physics B</i> , 2020, 29, 126302.	1.4	3
29	Revealing the characteristic length of random close packing by a critical-like random pinning. <i>Soft Matter</i> , 2022, , .	2.7	1