Hua Tong

List of Publications by Year
in descending order

29 papers	734 citations	623734 14 h-index	526287 27 g-index
29 all docs	29 docs citations	29 times ranked	718 citing authors

#	Article	IF	Citations
1	Revealing the characteristic length of random close packing by a critical-like random pinning. Soft Matter, 2022, , .	2.7	1
2	Morphology selection kinetics of crystallization in a sphere. Nature Physics, 2021, 17, 121-127.	16.7	27
3	Fast crystal growth at ultra-low temperatures. Nature Materials, 2021, 20, 1431-1439.	27.5	36
4	Revealing thermally-activated nucleation pathways of diffusionless solid-to-solid transition. Nature Communications, 2021, 12, 4042.	12.8	13
5	Experimental Test of the Edwards Volume Ensemble for Tapped Granular Packings. Physical Review Letters, 2021, 127, 018002.	7.8	14
6	Achieving adjustable elasticity with non-affine to affine transition. Nature Materials, 2021, 20, 1635-1642.	27.5	9
7	Coupling between Particle Shape and Long-Range Interaction in the High-Density Regime. Chinese Physics Letters, 2020, 37, 086301.	3.3	3
8	Emergent solidity of amorphous materials as a consequence of mechanical self-organisation. Nature Communications, 2020, 11, 4863.	12.8	26
9	Intermittent rearrangements accompanying thermal fluctuations distinguish glasses from crystals. Journal of Chemical Physics, 2020, 153, 154501.	3.0	5
10	Role of Attractive Interactions in Structure Ordering and Dynamics of Glass-Forming Liquids. Physical Review Letters, 2020, 124, 225501.	7.8	30
11	Decoupling between thermodynamics and dynamics during rejuvenation in colloidal glasses. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 024007.	2.3	3
12	Friction-Controlled Entropy-Stability Competition in Granular Systems. Physical Review Letters, 2020, 125, 268005.	7.8	17
13	Jamming in confined geometry: Criticality of the jamming transition and implications of structural relaxation in confined supercooled liquids*. Chinese Physics B, 2020, 29, 126302.	1.4	3
14	Emergence and percolation of rigid domains during the colloidal glass transition. Physical Review E, 2019, 99, 062610.	2.1	12
15	Revealing Inherent Structural Characteristics of Jammed Particulate Packings. Physical Review Letters, 2019, 122, 215502.	7.8	19
16	Revealing key structural features hidden in liquids and glasses. Nature Reviews Physics, 2019, 1, 333-348.	26.6	134
17	A universal state and its relaxation mechanisms of long-range interacting polygons. Nature Communications, 2019, 10, 1737.	12.8	7
18	Structural order as a genuine control parameter of dynamics in simple glass formers. Nature Communications, 2019, 10, 5596.	12.8	56

#	Article	IF	Citations
19	Realizing negative Poisson's ratio in spring networks with close-packed lattice geometries. Physical Review Materials, 2019, 3, .	2.4	9
20	Revealing Hidden Structural Order Controlling Both Fast and Slow Glassy Dynamics in Supercooled Liquids. Physical Review X, 2018, 8, .	8.9	75
21	Role of disorder in determining the vibrational properties of mass-spring networks. Frontiers of Physics, 2017, 12, 1.	5.0	11
22	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
23	From Crystals to Disordered Crystals: A Hidden Order-Disorder Transition. Scientific Reports, 2015, 5, 15378.	3.3	49
24	Mechanical properties of jammed packings of frictionless spheres under an applied shear stress. Chinese Physics B, 2014, 23, 116105.	1.4	4
25	Order parameter for structural heterogeneity in disordered solids. Physical Review E, 2014, 90, 010401.	2.1	36
26	Electron spin relaxation in GaAs1â^'xBix: Effects of spin-orbit tuning by Bi incorporation. Journal of Applied Physics, 2012, 112, 063701.	2.5	25
27	Strongly modulated transmissions in gapped armchair graphene nanoribbons with side-arm or on-site gate voltage. Physical Review B, 2012, 85, .	3.2	9
28	Multivalley spin relaxation in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi></mml:math>-type bulk GaAs in the presence of high electric fields. Physical Review B, 2012, 85, .	3.2	13
29	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