

Chun Tang

List of Publications by Year in descending order

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30
papers

950
citations

687335

13
h-index

477281

29
g-index

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all docs

30
docs citations

30
times ranked

1535
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning Magnetism and Electronic Phase Transitions by Strain and Electric Field in Zigzag MoS ₂ Nanoribbons. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2934-2941.	4.6	229
2	Auxetic and Ferroelastic Borophane: A Novel 2D Material with Negative Poisson's Ratio and Switchable Dirac Transport Channels. <i>Nano Letters</i> , 2016, 16, 7910-7914.	9.1	176
3	Role of wrinkle height in friction variation with number of graphene layers. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	102
4	Two Distinct Buckling Modes in Carbon Nanotube Bending. <i>Nano Letters</i> , 2007, 7, 143-148.	9.1	62
5	Unprecedented Piezoresistance Coefficient in Strained Silicon Carbide. <i>Nano Letters</i> , 2019, 19, 6569-6576.	9.1	62
6	Molecular dynamics simulation of tensile elongation of carbon nanotubes: Temperature and size effects. <i>Physical Review B</i> , 2009, 79, .	3.2	55
7	Mechanism for Superelongation of Carbon Nanotubes at High Temperatures. <i>Physical Review Letters</i> , 2008, 100, 175501.	7.8	44
8	Aspect ratio dependent buckling mode transition in single-walled carbon nanotubes under compression. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	37
9	Structural and mechanical properties of partially unzipped carbon nanotubes. <i>Physical Review B</i> , 2011, 83, .	3.2	28
10	The mechanism of anomalous hardening in transition-metal monoborides. <i>Nanoscale</i> , 2017, 9, 9112-9118.	5.6	21
11	Two-Stage Electrical Percolation of Metal Nanoparticle-Polymer Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8614-8620.	3.1	19
12	Hybrid W-shaped graphene nanoribbons: Distinct electronic and transport properties. <i>Journal of Applied Physics</i> , 2011, 110, 124312.	2.5	14
13	Designing superhard metals: The case of low borides. <i>AIP Advances</i> , 2018, 8, 045305.	1.3	14
14	Intrinsic Charge Separation and Tunable Electronic Band Gap of Armchair Graphene Nanoribbons Encapsulated in a Double-Walled Carbon Nanotube. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1328-1333.	4.6	13
15	Enhancing interwall load transfer by vacancy defects in carbon nanotubes. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	12
16	Emergent properties and trends of a new class of carbon nanocomposites: graphene nanoribbons encapsulated in a carbon nanotube. <i>Nanoscale</i> , 2013, 5, 3306.	5.6	12
17	Mechanics of penta-graphene with vacancy defects under large amplitude tensile and shear loading. <i>Nanotechnology</i> , 2021, 32, 275706.	2.6	11
18	Temperature-mediated fabrication, stress-induced crystallization and transformation: atomistic simulations of additively manufactured amorphous Cu pillars. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019, 27, 075012.	2.0	10

#	ARTICLE	IF	CITATIONS
19	Geometries of Au nanoparticle-chains control their percolation in polymer. Applied Physics Letters, 2018, 113, .	3.3	7
20	Mechanical responses of <i>a</i> -axis GaN nanowires under axial loads. Nanotechnology, 2018, 29, 095707.	2.6	4
21	Buckling of blue phosphorus nanotubes under axial compression: Insights from molecular dynamics simulations. Journal of Applied Physics, 2020, 127, 014301.	2.5	3
22	Frictional characteristics of graphene layers with embedded nanopores. Nanotechnology, 2021, 32, 345701.	2.6	3
23	Buckling of double-walled carbon nanotubes under compression and bending: Influence of vacancy defects and effect of high-temperature annealing. Journal of Applied Physics, 2013, 114, 174308.	2.5	2
24	Mechano-Ferroelectric Coupling: Stabilization Enhancement and Polarization Switching in Bent AgBiP2Se6 Monolayer. Nanoscale Horizons, 2021, 6, 971-978.	8.0	2
25	Modifying mechanical properties of silicon dioxide using porous graphene: molecular dynamics simulations. Materials Research Express, 2021, 8, 055012.	1.6	2
26	Mechanical behaviour of 2D hybrid structure fabricated by doping graphene with triangular h-BN cells. Journal of Physics and Chemistry of Solids, 2021, 154, 110074.	4.0	2
27	Mechanical properties of 2D blue phosphorus and temperature effect. Nanotechnology, 2021, 32, 085702.	2.6	2
28	Effect of AuNP-AuNP vdW interaction on the mechanics and piezoresistivity of AuNP-polymer nanocomposite. AIP Advances, 2019, 9, 055212.	1.3	1
29	On the snap-through time of a nanoscale elastic strip. Acta Mechanica Sinica/Lixue Xuebao, 2022, 38, .	3.4	1
30	Electrical percolation and dynamic piezoresistivity of silver nanoparticle/polydimethylsiloxane films. Materials Research Express, 2020, 7, 045701.	1.6	0