Chun Tang

List of Publications by Year in Descending Order

28 papers	763 citations	12 h-index	27 g-index
30 ext. papers	865 ext. citations	4.5 avg, IF	4 L-index

#	Paper	IF	Citations
28	Mechanical properties of 2D blue phosphorus and temperature effect. *Nanotechnology*, **2021**, 32, 085702	3.4	2
27	Mechanics of penta-graphene with vacancy defects under large amplitude tensile and shear loading. *Nanotechnology*, **2021**, 32,	3.4	5
26	Modifying mechanical properties of silicon dioxide using porous graphene: molecular dynamics simulations. *Materials Research Express*, **2021**, 8, 055012	1.7	1
25	Frictional characteristics of graphene layers with embedded nanopores. *Nanotechnology*, **2021**, 32,	3.4	1
24	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	3.9	
23	Mechano-ferroelectric coupling: stabilization enhancement and polarization switching in bent AgBiPSe monolayers. *Nanoscale Horizons*, **2021**, 6, 971-978	10.8	1
22	Electrical percolation and dynamic piezoresistivity of silver nanoparticle/polydimethylsiloxane films. *Materials Research Express*, **2020**, 7, 045701	1.7	
21	Buckling of blue phosphorus nanotubes under axial compression: Insights from molecular dynamics simulations. *Journal of Applied Physics*, **2020**, 127, 014301	2.5	2
20	Effect of AuNP-AuNP vdW interaction on the mechanics and piezoresistivity of AuNP-polymer nanocomposite. *AIP Advances*, **2019**, 9, 055212	1.5	1
19	Unprecedented Piezoresistance Coefficient in Strained Silicon Carbide. *Nano Letters*, **2019**, 19, 6569-6576	11.5	52
18	Temperature-mediated fabrication, stress-induced crystallization and transformation: atomistic simulations of additively manufactured amorphous Cu pillars. *Modelling and Simulation in Materials Science and Engineering*, **2019**, 27, 075012	2	4
17	Designing superhard metals: The case of low borides. *AIP Advances*, **2018**, 8, 045305	1.5	11
16	Two-Stage Electrical Percolation of Metal Nanoparticle-Polymer Nanocomposites. *Journal of Physical Chemistry C*, **2018**, 122, 8614-8620	3.8	12
15	Mechanical responses of a-axis GaN nanowires under axial loads. *Nanotechnology*, **2018**, 29, 095707	3.4	3
14	Geometries of Au nanoparticle-chains control their percolation in polymer. *Applied Physics Letters*, **2018**, 113, 253105	3.4	6
13	The mechanism of anomalous hardening in transition-metal monoborides. *Nanoscale*, **2017**, 9, 9112-9118	7.7	17
12	Auxetic and Ferroelastic Borophane: A Novel 2D Material with Negative Possions Ratio and Switchable Dirac Transport Channels. *Nano Letters*, **2016**, 16, 7910-7914	11.5	121

List of Publications

11	Intrinsic Charge Separation and Tunable Electronic Band Gap of Armchair Graphene Nanoribbons Encapsulated in a Double-Walled Carbon Nanotube. *Journal of Physical Chemistry Letters*, **2013**, 4, 1328-33	6.4	12
10	Emergent properties and trends of a new class of carbon nanocomposites: graphene nanoribbons encapsulated in a carbon nanotube. *Nanoscale*, **2013**, 5, 3306-14	7.7	10
9	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
8	Enhancing interwall load transfer by vacancy defects in carbon nanotubes. *Applied Physics Letters*, **2012**, 100, 033118	3.4	11
7	Tuning Magnetism and Electronic Phase Transitions by Strain and Electric Field in Zigzag MoS2 Nanoribbons. *Journal of Physical Chemistry Letters*, **2012**, 3, 2934-41	6.4	203
6	Aspect ratio dependent buckling mode transition in single-walled carbon nanotubes under compression. *Journal of Applied Physics*, **2011**, 109, 084323	2.5	31
5	Hybrid W-shaped graphene nanoribbons: Distinct electronic and transport properties. *Journal of Applied Physics*, **2011**, 110, 124312	2.5	12
4	Structural and mechanical properties of partially unzipped carbon nanotubes. *Physical Review B*, **2011**, 83,	3.3	23
3	Molecular dynamics simulation of tensile elongation of carbon nanotubes: Temperature and size effects. *Physical Review B*, **2009**, 79,	3.3	45
2	Mechanism for superelongation of carbon nanotubes at high temperatures. *Physical Review Letters*, **2008**, 100, 175501	7.4	40
1	Two distinct buckling modes in carbon nanotube bending. *Nano Letters*, **2007**, 7, 143-8	11.5	57