Yitian Peng

List of Publications by Year
in descending order

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44 papers	1,030 citations	430874 18 h-index	434195 31 g-index
44 all docs	44 docs citations	44 times ranked	1081 citing authors

#	Article	IF	Citations
1	Investigating the effect of nanoscale triboelectrification on nanofriction in insulators. Nano Energy, 2022, 91, 106620.	16.0	7
2	Material transfer mechanism for fabrication of superlubricity interface by reciprocating rubbing on graphite under high contact stress. Carbon, 2022, 188, 420-430.	10.3	8
3	The controllable tuning of nanofriction on atomically thin hexagonal boron nitride with external electric field. Applied Surface Science, 2022, 581, 152361.	6.1	3
4	Electronic friction and tuning on atomically thin MoS2. Npj 2D Materials and Applications, 2022, 6, .	7.9	7
5	Nanofriction characteristics of h-BN with electric field induced electrostatic interaction. Friction, 2021, 9, 1492-1503.	6.4	10
6	The Current-Carrying Tribological Properties of Cu/Graphene Composites. Journal of Tribology, 2021, 143, .	1.9	16
7	Impact of the Surface and Microstructure on the Lubricative Properties of MoS₂ Aging under Different Environments. Langmuir, 2021, 37, 2928-2941.	3.5	9
8	Dynamic Nanofriction of Graphene Oxide Induced by a Positively Biased Conductive AFM Tip. Journal of Physical Chemistry C, 2021, 125, 18334-18340.	3.1	1
9	Superior lubrication and electrical stability of graphene as highly effective solid lubricant at sliding electrical contact interface. Carbon, 2021, 183, 53-61.	10.3	30
10	Ultra-low friction and patterning on atomically thin MoS₂via electronic tight-binding. Nanoscale, 2021, 13, 16860-16871.	5.6	15
11	Robust Superlubric Interface across Nano- and Micro-Scales Enabled by Fluoroalkylsilane Self-Assembled Monolayers and Atomically Thin Graphene. ACS Applied Materials & Interfaces, 2021, 13, 56704-56717.	8.0	2
12	Dynamic electron transfer for reducing nanofriction of graphene at electrified interfaces. Applied Surface Science, 2020, 520, 146327.	6.1	2
13	Electric-Carrying Nanofriction Properties of Atomic-Scale Steps on Graphene. Tribology Letters, 2020, 68, 1.	2.6	2
14	Atomic-Scale Friction Characteristics of Graphene under Conductive AFM with Applied Voltages. ACS Applied Materials & Interfaces, 2020, 12, 25503-25511.	8.0	31
15	A Sub-Micron Spherical Atomic Force Microscopic Tip for Surface Measurements. Langmuir, 2020, 36, 7861-7867.	3.5	9
16	Deformation induced atomic-scale frictional characteristics of atomically thin two-dimensional materials. Carbon, 2020, 163, 186-196.	10.3	24
17	Tribological Properties of Multi-Walled Carbon Nanotube-Cr and Graphene Oxide-Cr Composite Coating. Journal of Tribology, 2019, 141, .	1.9	4
18	Dual control of the nanofriction of graphene. Journal of Materials Chemistry C, 2019, 7, 6041-6051.	5.5	19

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19	Anisotropic nanofriction on MoS2 with different thicknesses. Tribology International, 2019, 134, 308-316.	5.9	42
20	Coreâ€“shell tecto dendrimers formed via hostâ€“guest supramolecular assembly as pH-responsive intelligent carriers for enhanced anticancer drug delivery. Nanoscale, 2019, 11, 22343-22350.	5.6	46
21	Probing the difference in friction performance between graphene and MoS2 by manipulating the silver nanowires. Journal of Materials Science, 2019, 54, 540-551.	3.7	10
22	Tuning the nanotribological behaviors of single silver nanowire through various manipulations. Applied Surface Science, 2018, 440, 830-840.	6.1	3
23	Enhanced tribological properties of composite films based on ionic liquids with MoS2 nanosheets as additives. New Journal of Chemistry, 2018, 42, 4887-4892.	2.8	10
24	Dynamic Sliding Enhancement on the Friction and Adhesion of Graphene, Graphene Oxide, and Fluorinated Graphene. ACS Applied Materials & Interfaces, 2018, 10, 8214-8224.	8.0	84
25	Dependence of the friction strengthening of graphene on velocity. Nanoscale, 2018, 10, 1855-1864.	5.6	31
26	Nanotribological behavior of a single silver nanowire on graphite. Nanotechnology, 2018, 29, 085706.	2.6	3
27	A Green Design for Lubrication: Multifunctional System Containing Fe₃O₄@MoS₂ Nanohybrid. ACS Sustainable Chemistry and Engineering, 2018, 6, 7372-7379.	6.7	27
28	Enhanced Lubrication and Photocatalytic Degradation of Liquid Paraffin by Hollow MoS₂ Microspheres. ACS Omega, 2018, 3, 3120-3128.	3.5	14
29	An ultra-low frictional interface combining FDTS SAMs with molybdenum disulfide. Nanoscale, 2018, 10, 378-385.	5.6	23
30	Effect of relative humidity on the frictional properties of graphene at atomic-scale steps. Carbon, 2018, 137, 519-526.	10.3	27
31	Controllable Nanotribological Properties of Graphene Nanosheets. Scientific Reports, 2017, 7, 41891.	3.3	27
32	Enhancing performances of a resistivity-type hydrogen sensor based on Pd/SnO₂/RGO nanocomposites. Nanotechnology, 2017, 28, 215501.	2.6	24
33	Effect of interlayer bonding strength and bending stiffness on 2-dimensional materialsâ€™ frictional properties at atomic-scale steps. Applied Surface Science, 2017, 411, 261-270.	6.1	14
34	A novel approach to decrease friction of graphene. Carbon, 2017, 118, 233-240.	10.3	113
35	Nanotribological characterization of graphene on soft elastic substrate. Carbon, 2017, 124, 541-546.	10.3	38
36	Enhanced lubrication and photocatalytic degradation of liquid paraffin by coral-like MoS₂. New Journal of Chemistry, 2017, 41, 7674-7680.	2.8	12

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37	The hydrogen sensing properties of Ptâ€“Pd/reduced graphene oxide based sensor under different operating conditions. RSC Advances, 2016, 6, 24880-24888.	3.6	56
38	Friction and Wear Properties of Different Types of Graphene Nanosheets as Effective Solid Lubricants. Langmuir, 2015, 31, 7782-7791.	3.5	144
39	Fabrication of reduced graphene oxide nanosheets reinforced Snâ€“Bi nanocomposites by electro-chemical deposition. Composites Part A: Applied Science and Manufacturing, 2015, 73, 55-62.	7.6	11
40	Study of nanotribological properties of multilayer graphene by calibrated atomic force microscopy. Nanotechnology, 2014, 25, 305701.	2.6	28
41	Fabrication, electrical characterization, and detection application of graphene-sheet-based electrical circuits. Nanoscale Research Letters, 2014, 9, 617.	5.7	6
42	Tribological properties of sodium dodecyl sulfate aqueous dispersion of graphite-derived carbon materials. RSC Advances, 2014, 4, 9980.	3.6	19
43	Fabrication and characterization of crystalline copper nanowires by electrochemical deposition inside anodic alumina template. Science Bulletin, 2013, 58, 3409-3414.	1.7	6
44	Tribological Properties of Stearic Acid Modified Multi-Walled Carbon Nanotubes in Water. Journal of Tribology, 2013, 135, .	1.9	13