Li Ji

List of Publications by Year
in descending order

31	715	516681 16	552766 26
papers	citations	h-index	g-index

31	31	31	565
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ti-DLC films with superior friction performance. Diamond and Related Materials, 2010, 19, 342-349.	3.9	118
2	Toward Robust Macroscale Superlubricity on Engineering Steel Substrate. Advanced Materials, 2020, 32, e2002039.	21.0	67
3	Macro-superlubric triboelectric nanogenerator based on tribovoltaic effect. Matter, 2022, 5, 1532-1546.	10.0	40
4	Humidity-sensitive macroscopic lubrication behavior of an as-sprayed graphene oxide coating. Carbon, 2018, 140, 124-130.	10.3	39
5	Effects of environmental molecular characteristics and gasâ€“surface interaction on friction behaviour of diamond-like carbon films. Journal Physics D: Applied Physics, 2009, 42, 135301.	2.8	33
6	Vacuum tribological properties of a-C:H film in relation to internal stress and applied load. Tribology International, 2014, 71, 82-87.	5.9	30
7	Perspectives of friction mechanism of a-C:H film in vacuum concerning the onion-like carbon transformation at the sliding interface. RSC Advances, 2015, 5, 8904-8911.	3.6	30
8	Microstructure and tribological properties of the a-C:H films deposited by magnetron sputtering with CH4/Ar mixture. Surface and Coatings Technology, 2011, 205, 4577-4581.	4.8	27
9	Low-field formation of room-temperature biskyrmions in centrosymmetric MnPdGa magnet. Applied Physics Letters, 2019, 114, .	3.3	27
10	Self-forming oriented layer slip and macroscale super-low friction of graphene. Applied Physics Letters, 2017, 110, .	3.3	26
11	Effects of pulse bias duty cycle on fullerenelike nanostructure and mechanical properties of hydrogenated carbon films prepared by plasma enhanced chemical vapor deposition method. Journal of Applied Physics, 2009, 105, .	2.5	25
12	External-Field-Induced Growth Effect of an a-C:H Film for Manipulating Its Medium-Range Nanostructures and Properties. ACS Applied Materials & Interfaces, 2016, 8, 6639-6645.	8.0	25
13	Fullerene-like hydrogenated carbon films with super-low friction and wear, and low sensitivity to environment. Journal Physics D: Applied Physics, 2010, 43, 015404.	2.8	24
14	Shearâ€Induced Interfacial Structural Conversion of Graphene Oxide to Graphene at Macroscale. Advanced Functional Materials, 2020, 30, 2004498.	14.9	24
15	Tribochemistry of superlubricating amorphous carbon films. Chemical Communications, 2021, 57, 11776-11786.	4.1	20
16	Improving the tribological performance of a-C:H film in a high vacuum by surface texture. Journal Physics D: Applied Physics, 2014, 47, 235301.	2.8	19
17	Structure optimization of epoxy-functionalized polysiloxanes and tribological properties of the polysiloxane/molybdenum disulfide lubricating coating for low-earth orbit environment. Tribology International, 2021, 162, 107135.	5.9	17
18	Role of nanoparticles in achieving macroscale superlubricity of graphene/nano-SiO2 particle composites. Friction, 2022, 10, 1305-1316.	6.4	16

#	Article	IF	Citations
19	A strategy to construct long-range fullerene-like nanostructure in amorphous carbon film with improved toughness and carrying capacity. Journal Physics D: Applied Physics, 2020, 53, 335205.	2.8	14
20	Regulating Vacuum Tribological Behavior of a-C:H Film by Interfacial Activity. Journal of Physical Chemistry Letters, 2021, 12, 10333-10338.	4.6	14
21	Effect of microstructural evolution on mechanical and tribological properties of Ti-doped DLC films: How was an ultralow friction obtained?. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	2.1	13
22	Adhesion Studies of Diamond-Like Carbon Films on 202 Stainless Steel Substrate with a Silicon Interlayer. Key Engineering Materials, 0, 373-374, 151-154.	0.4	12
23	Interface design for a-C:H film with super long wear life in high vacuum environment. Tribology International, 2016, 95, 298-305.	5.9	11
24	Macro-Tribological Behaviors of Four Common Graphenes. Industrial & Engineering Chemistry Research, 2019, 58, 5464-5471.	3.7	10
25	Effect of vacuum annealing on the microstructure and tribological behavior of hydrogenated amorphous carbon films prepared by magnetron sputtering. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2013, 227, 729-737.	1.8	8
26	Normal or inverse magnetocaloric effects at the transition between antiferromagnetism and ferromagnetism. Applied Physics Letters, 2012, 100, .	3.3	7
27	Influence of rotational speed on structure, mechanical and electrical properties of TiC/GLC composite films. Diamond and Related Materials, 2019, 92, 65-73.	3.9	5
28	Enhancing field electron emission behavior and mechanical properties of hydrogenated amorphous carbon films by incorporating vertically aligned carbon nanowires via facile reactive magnetron sputtering. Journal of Alloys and Compounds, 2019, 784, 463-470.	5.5	5
29	Fullerene-like nanostructure induced excellent friction behavior in high vacuum environment for hydrogenated carbon film. Vacuum, 2017, 143, 36-39.	3.5	3
30	The role of methane in the formation of fullerene-like nanostructure in amorphous carbon film deposited by reactive magnetron sputtering. Diamond and Related Materials, 2020, 109, 108018.	3.9	3
31	Environmental Molecular Effect on the Macroscale Friction Behaviors of Graphene. Frontiers in Chemistry, 2021, 9, 679417.	3.6	3