Jun Zhao

List of Publications by Year
in descending order

31 papers	1,290 citations	331670 21 h-index	477307 29 g-index
32 all docs	32 docs citations	32 times ranked	795 citing authors

#	Article	IF	Citations
1	An investigation on the tribological properties of multilayer graphene and MoS2 nanosheets as additives used in hydraulic applications. Tribology International, 2016, 97, 14-20.	5.9	193
2	Friction-induced nano-structural evolution of graphene as a lubrication additive. Applied Surface Science, 2018, 434, 21-27.	6.1	175
3	Nanolubricant additives: A review. Friction, 2021, 9, 891-917.	6.4	124
4	Optimization of groove texture profile to improve hydrodynamic lubrication performance: Theory and experiments. Friction, 2020, 8, 83-94.	6.4	65
5	Influence of the micromorphology of reduced graphene oxide sheets on lubrication properties as a lubrication additive. Tribology International, 2018, 119, 614-621.	5.9	60
6	Highly Exfoliated Reduced Graphite Oxide Powders as Efficient Lubricant Oil Additives. Advanced Materials Interfaces, 2016, 3, 1600700.	3.7	59
7	Synthesis of thermally reduced graphite oxide in sulfuric acid and its application as an efficient lubrication additive. Tribology International, 2017, 116, 303-309.	5.9	58
8	Real-Time and Online Lubricating Oil Condition Monitoring Enabled by Triboelectric Nanogenerator. ACS Nano, 2021, 15, 11869-11879.	14.6	56
9	In Situ Green Synthesis of the New Sandwichlike Nanostructure of Mn₃O₄/Graphene as Lubricant Additives. ACS Applied Materials & Interfaces, 2019, 11, 36931-36938.	8.0	55
10	Numerical optimization of the groove texture bottom profile for thrust bearings. Tribology International, 2017, 109, 69-77.	5.9	47
11	Mild thermal reduction of graphene oxide as a lubrication additive for friction and wear reduction. RSC Advances, 2017, 7, 1766-1770.	3.6	41
12	An investigation on the tribological behaviors of steel/copper and steel/steel friction pairs via lubrication with a graphene additive. Friction, 2021, 9, 228-238.	6.4	33
13	A novel route to the synthesis of an Fe₃O₄/h-BN 2D nanocomposite as a lubricant additive. RSC Advances, 2019, 9, 6583-6588.	3.6	31
14	Ultrastable Lubricating Properties of Robust Self-Repairing Tribofilms Enabled by in Situ-Assembled Polydopamine Nanoparticles. Langmuir, 2020, 36, 852-861.	3.5	31
15	Operando Formation of Van der Waals Heterostructures for Achieving Macroscale Superlubricity on Engineering Rough and Worn Surfaces. Advanced Functional Materials, 2022, 32, .	14.9	31
16	Superhigh-exfoliation graphene with a unique two-dimensional (2D) microstructure for lubrication application. Applied Surface Science, 2020, 513, 145608.	6.1	30
17	Two-dimensional (2D) graphene nanosheets as advanced lubricant additives: A critical review and prospect. Materials Today Communications, 2021, 29, 102755.	1.9	28
18	In situ synthesis of Mn3O4/graphene nanocomposite and its application as a lubrication additive at high temperatures. Applied Surface Science, 2021, 546, 149019.	6.1	27

#	Article	IF	Citations
19	Influence of a carbon-based tribofilm induced by the friction temperature on the tribological properties of impregnated graphite sliding against a cemented carbide. Friction, 2021, 9, 686-696.	6.4	26
20	Improvement of the lubrication properties of grease with Mn3O4/graphene (Mn3O4#G) nanocomposite additive. Friction, 2021, 9, 1361-1377.	6.4	23
21	Efficient one-pot synthesis of mussel-inspired Cu-doped polydopamine nanoparticles with enhanced lubrication under heavy loads. Chemical Engineering Journal, 2021, 426, 131287.	12.7	23
22	Influence of annealing on the tribological properties of Zr-based bulk metallic glass. Journal of Non-Crystalline Solids, 2018, 481, 94-97.	3.1	19
23	High-quality ultra-flat reduced graphene oxide nanosheets with super-robust lubrication performances. Chemical Engineering Journal, 2022, 438, 135620.	12.7	19
24	Medium ion energy synthesis of hard elastic fullerene-like hydrogenated carbon film with ultra-low friction and wear in humid air. Materials Letters, 2015, 143, 188-190.	2.6	9
25	Coupling effect of boundary tribofilm and hydrodynamic film. Cell Reports Physical Science, 2022, 3, 100778.	5.6	6
26	The Tribological Performance of Metal-/Resin-Impregnated Graphite under Harsh Condition. Lubricants, 2022, 10, 2.	2.9	6
27	Using Green, Economical, Efficient Two-Dimensional (2D) Talc Nanosheets as Lubricant Additives under Harsh Conditions. Nanomaterials, 2022, 12, 1666.	4.1	6
28	Synthesis of novel CuO@Graphene nanocomposites for lubrication application via a convenient and economical method. Wear, 2022, 498-499, 204323.	3.1	5
29	The tribological behaviors between fullerene-like hydrogenated carbon films produced on Si substrates, steel and Si 3 N 4 balls. Tribology International, 2017, 115, 518-524.	5.9	4
30	Dry gas seal performance analysis using a hydrodynamic and hydrostatic pressure decoupling method: Part 1. Sealing Technology, 2020, 2020, 4-9.	0.0	0
31	Dry gas seal performance analysis using a hydrodynamic and hydrostatic pressure decoupling method: Part 2. Sealing Technology, 2020, 2020, 4-9.	0.0	0