

Weiwei Tang

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

521
citations

687363

13
h-index

996975

15
g-index

15
all docs

15
docs citations

15
times ranked

336
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionic liquid capped carbon dots as a high-performance friction-reducing and antiwear additive for poly(ethylene glycol). <i>Journal of Materials Chemistry A</i> , 2016, 4, 7257-7265.	10.3	131
2	Facile pyrolysis synthesis of ionic liquid capped carbon dots and subsequent application as the water-based lubricant additives. <i>Journal of Materials Science</i> , 2019, 54, 1171-1183.	3.7	74
3	Hydrothermal synthesis of ionic liquid-capped carbon quantum dots with high thermal stability and anion responsiveness. <i>Journal of Materials Science</i> , 2015, 50, 5411-5418.	3.7	64
4	Applications of carbon quantum dots in lubricant additives: a review. <i>Journal of Materials Science</i> , 2021, 56, 12061-12092.	3.7	36
5	A molecular dynamics study on the synergistic lubrication mechanisms of graphene/water-based lubricant systems. <i>Tribology International</i> , 2022, 167, 107356.	5.9	34
6	Synthesis of ionic liquid decorated multi-walled carbon nanotubes as the favorable water-based lubricant additives. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	27
7	Tribological performance of various metal-doped carbon dots as water-based lubricant additives and their potential application as additives of poly(ethylene glycol). <i>Friction</i> , 2022, 10, 688-705.	6.4	26
8	Black phosphorus quantum dots: A new-type of water-based high-efficiency lubricant additive. <i>Friction</i> , 2021, 9, 1528-1542.	6.4	24
9	Oleylamine-modified carbon nanoparticles as a kind of efficient lubricating additive of polyalphaolefin. <i>Journal of Materials Science</i> , 2017, 52, 4483-4492.	3.7	22
10	Tribological properties of a series of carbon dots modified by ionic liquids with various anion species: experimental findings and density functional theory calculations. <i>Dalton Transactions</i> , 2021, 50, 9185-9197.	3.3	22
11	Synthesis of ionic liquid functionalized graphene oxides and their tribological property under water lubrication. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2018, 26, 175-183.	2.1	19
12	Tertiary Amine-Terminated Carbon Dots with Reversible CO ₂ Switchable Amphiphilicity as the Versatile Lubricant Additives. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16829-16839.	6.7	19
13	Remarkable Lubricating Effect of Ionic Liquid Modified Carbon Dots as a Kind of Water-Based Lubricant Additives. <i>Nano</i> , 2017, 12, 1750108.	1.0	14
14	Deformation mechanisms of Si-doped diamond-like carbon films under uniaxial tension conditions. <i>Diamond and Related Materials</i> , 2020, 110, 108099.	3.9	6
15	The distinguished long-term friction reduction and anti-wear functions of amphiphilic carbon dots originated from lauryl gallate. <i>Materials Today Communications</i> , 2021, 29, 102881.	1.9	3