Ajay Chouhan

List of Publications by Year
in descending order

11	325	1040056 9	1281871 11
papers	citations	h-index	g-index

11	11	11	256
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Surface chemistry of graphene and graphene oxide: A versatile route for their dispersion and tribological applications. Advances in Colloid and Interface Science, 2020, 283, 102215.	14.7	76
2	Chemically functionalized graphene for lubricant applications: Microscopic and spectroscopic studies of contact interfaces to probe the role of graphene for enhanced tribo-performance. Journal of Colloid and Interface Science, 2018, 513, 666-676.	9.4	59
3	Graphene-Based Aqueous Lubricants: Dispersion Stability to the Enhancement of Tribological Properties. ACS Applied Materials & Interfaces, 2020, 12, 51785-51796.	8.0	41
4	Synergistic lubrication performance by incommensurately stacked ZnO-decorated reduced graphene oxide/MoS2 heterostructure. Journal of Colloid and Interface Science, 2020, 580, 730-739.	9.4	38
5	Structural-Defect-Mediated Grafting of Alkylamine on Few-Layer MoS₂ and Its Potential for Enhancement of Tribological Properties. ACS Applied Materials & Interfaces, 2020, 12, 30720-30730.	8.0	30
6	Chemically functionalized 2D/2D hexagonal boron Nitride/Molybdenum disulfide heterostructure for enhancement of lubrication properties. Applied Surface Science, 2022, 579, 152157.	6.1	20
7	Mechano-adaptive thin film of graphene-based polymeric nanocomposite for enhancement of lubrication properties. Applied Surface Science, 2021, 538, 148041.	6.1	16
8	Effect of Graphene-Based Nanoadditives on the Tribological and Rheological Performance of Paraffin Grease. Journal of Materials Engineering and Performance, 2020, 29, 2235-2247.	2.5	15
9	Alkali-Assisted Hydrothermal Exfoliation and Surfactant-Driven Functionalization of h-BN Nanosheets for Lubrication Enhancement. ACS Applied Nano Materials, 2021, 4, 9143-9154.	5.0	14
10	Surface Functionalization of WS₂ Nanosheets with Alkyl Chains for Enhancement of Dispersion Stability and Tribological Properties. ACS Applied Materials & Interfaces, 2022, 14, 1334-1346.	8.0	10
11	Reinforcing the Near Eutectic Aluminumâ€“Silicon Alloy with Graphene: An Approach toward Selfâ€Lubricating Composite. Advanced Engineering Materials, 2021, 23, 2000910.	3.5	6