

Maria Isabel De Barros Bouchet

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

409
citations

933447

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citing authors

#	ARTICLE	IF	CITATIONS
1	Achieving superlubricity using selected tribo-pairs lubricated by castor oil and unsaturated fatty acids. <i>Tribology International</i> , 2022, 169, 107462.	5.9	13
2	Mechanism of superlubricity of a DLC/Si ₃ N ₄ contact in the presence of castor oil and other green lubricants. <i>Friction</i> , 2022, 10, 1693-1706.	6.4	12
3	<i>In Situ</i> Synthesis of Graphene Nitride Nanolayers on Glycerol-Lubricated Si ₃ N ₄ for Superlubricity Applications. <i>ACS Applied Nano Materials</i> , 2021, 4, 2721-2732.	5.0	16
4	Interplay of mechanics and chemistry governs wear of diamond-like carbon coatings interacting with ZDDP-additivated lubricants. <i>Nature Communications</i> , 2021, 12, 4550.	12.8	42
5	Superlow Friction of a-C:H Coatings in Vacuum: Passivation Regimes and Structural Characterization of the Sliding Interfaces. <i>Coatings</i> , 2021, 11, 1069.	2.6	14
6	Triboemission of hydrocarbon molecules from diamond-like carbon friction interface induces atomic-scale wear. <i>Science Advances</i> , 2019, 5, eaax9301.	10.3	70
7	MoS ₂ formation induced by amorphous MoS ₃ species under lubricated friction. <i>RSC Advances</i> , 2018, 8, 25867-25872.	3.6	16
8	Diamond-like carbon coating under oleic acid lubrication: Evidence for graphene oxide formation in superlow friction. <i>Scientific Reports</i> , 2017, 7, 46394.	3.3	90
9	Tribochemistry of unsaturated fatty acids as friction modifiers in (bio)diesel fuel. <i>RSC Advances</i> , 2017, 7, 33120-33131.	3.6	26
10	Super-low friction of ta-C coating in presence of oleic acid. <i>Friction</i> , 2014, 2, 156-163.	6.4	53
11	Anti-wear Chemistry of ZDDP and Calcium Borate Nano-additive. Coupling Experiments, Chemical Hardness Predictions, and MD Calculations. <i>Tribology Letters</i> , 2013, 50, 95-104.	2.6	19
12	Mechanism of friction reduction of unsaturated fatty acids as additives in diesel fuels. <i>Friction</i> , 2013, 1, 252-258.	6.4	30
13	Lubrication of carbon coatings with MoS ₂ single sheet formed by MoDTC and ZDDP lubricants. <i>Lubrication Science</i> , 2006, 18, 141-149.	2.1	8