

# Maria Isabel De Barros Bouchet

List of Publications by Year  
in descending order

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Version: 2024-02-01

13  
papers

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933447  
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1125743  
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all docs

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docs citations

13  
times ranked

336  
citing authors

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