

# Gianpietro Moras

## List of Publications by Citations

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21  
papers

450  
citations

11  
h-index

21  
g-index

22  
ext. papers

542  
ext. citations

5.8  
avg, IF

3.75  
L-index

#	Paper	IF	Citations
21	Mechano-chemical decomposition of organic friction modifiers with multiple reactive centres induces superlubricity of ta-C. <i>Nature Communications</i> , <b>2019</b> , 10, 151	17.4	66
20	Ab initio derived force-field parameters for molecular dynamics simulations of deprotonated amorphous-SiO <sub>2</sub> /water interfaces. <i>Physica Status Solidi (B): Basic Research</i> , <b>2012</b> , 249, 292-305	1.3	58
19	Friction Regimes of Water-Lubricated Diamond (111): Role of Interfacial Ether Groups and Tribo-Induced Aromatic Surface Reconstructions. <i>Physical Review Letters</i> , <b>2017</b> , 119, 096101	7.4	54
18	Activation and mechanochemical breaking of C-C bonds initiate wear of diamond (110) surfaces in contact with silica. <i>Carbon</i> , <b>2016</b> , 98, 474-483	10.4	44
17	Formation and Oxidation of Linear Carbon Chains and Their Role in the Wear of Carbon Materials. <i>Tribology Letters</i> , <b>2011</b> , 44, 355-365	2.8	37
16	Progressive Shortening of sp-Hybridized Carbon Chains through Oxygen-Induced Cleavage. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 24653-24661	3.8	34
15	Multiscale hybrid simulation methods for material systems. <i>Journal of Physics Condensed Matter</i> , <b>2005</b> , 17, R691-R703	1.8	32
14	Fluorine-Terminated Diamond Surfaces as Dense Dipole Lattices: The Electrostatic Origin of Polar Hydrophobicity. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 4018-28	16.4	30
13	Atomically smooth stress-corrosion cleavage of a hydrogen-implanted crystal. <i>Physical Review Letters</i> , <b>2010</b> , 105, 075502	7.4	28
12	Accuracy of buffered-force QM/MM simulations of silica. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 064116	3.9	15
11	Shear melting of silicon and diamond and the disappearance of the polyamorphic transition under shear. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	14
10	Role of oxygen functional groups in the friction of water-lubricated low-index diamond surfaces. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	10
9	Steric Effects Control Dry Friction of H- and F-Terminated Carbon Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 8805-8816	9.5	7
8	Interplay of mechanics and chemistry governs wear of diamond-like carbon coatings interacting with ZDDP-additivated lubricants. <i>Nature Communications</i> , <b>2021</b> , 12, 4550	17.4	7
7	In Situ Synthesis of Graphene Nitride Nanolayers on Glycerol-Lubricated Si <sub>3</sub> N <sub>4</sub> for Superlubricity Applications. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 2721-2732	5.6	5
6	Multiscale Modeling of Defects in Semiconductors: A Novel Molecular-Dynamics Scheme. <i>Topics in Applied Physics</i> , <b>2006</b> , 193-212	0.5	3
5	Superlow Friction of a-C:H Coatings in Vacuum: Passivation Regimes and Structural Characterization of the Sliding Interfaces. <i>Coatings</i> , <b>2021</b> , 11, 1069	2.9	2

4	A Combined Experimental and Atomistic Investigation of PTFE Double Transfer Film Formation and Lubrication in Rolling Point Contacts. <i>Tribology Letters</i> , <b>2021</b> , 69, 1	2.8	2
3	Back Cover: Ab initio derived force-field parameters for molecular dynamics simulations of deprotonated amorphous-SiO <sub>2</sub> /water interfaces (Phys. Status Solidi B 2/2012). <i>Physica Status Solidi (B): Basic Research</i> , <b>2012</b> , 249,	1.3	1
2	Hybrid Quantum/Classical Modeling of Material Systems: The Learn on the Fly Molecular Dynamics Scheme. <i>Challenges and Advances in Computational Chemistry and Physics</i> , <b>2010</b> , 1-23	0.7	1
1	Solid-Phase Silicon Homoepitaxy via Shear-Induced Amorphization and Recrystallization. <i>Physical Review Letters</i> , <b>2021</b> , 127, 126101	7.4	