

# Jan Brndiar

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

351  
citations

1040056

9  
h-index

794594

19  
g-index

23  
all docs

23  
docs citations

23  
times ranked

428  
citing authors

#	ARTICLE	IF	CITATIONS
1	Limitations of Structural Superlubricity: Chemical Bonds versus Contact Size. ACS Nano, 2017, 11, 7642-7647.	14.6	83
2	Measurement and Manipulation of the Charge State of an Adsorbed Oxygen Adatom on the Rutile TiO <sub>2</sub> (110)-1Å-1 Surface by nc-AFM and KPFM. Journal of the American Chemical Society, 2018, 140, 15668-15674.	13.7	51
3	Tip-Induced Control of Charge and Molecular Bonding of Oxygen Atoms on the Rutile TiO <sub>2</sub> (110) Surface with Atomic Force Microscopy. ACS Nano, 2019, 13, 6917-6924.	14.6	35
4	Understanding frictional duality and bi-duality: Sb-nanoparticles on HOPG. Nanotechnology, 2011, 22, 085704.	2.6	24
5	Interplay of the tip-sample junction stability and image contrast reversal on a Cu(111) surface revealed by the 3D force field. Nanotechnology, 2012, 23, 045705.	2.6	24
6	Universality of the metal-insulator transition in three-dimensional disordered systems. Physical Review B, 2006, 74, .	3.2	22
7	Subatomic-scale force vector mapping above a Ge(001) dimer using bimodal atomic force microscopy. Nature Physics, 2017, 13, 663-667.	16.7	19
8	Critical Importance of van der Waals Stabilization in Strongly Chemically Bonded Surfaces: Cu(110):O. Journal of Chemical Theory and Computation, 2013, 9, 5578-5584.	5.3	10
9	Imaging the surface potential at the steps on the rutile TiO <sub>2</sub> (110) surface by Kelvin probe force microscopy. Beilstein Journal of Nanotechnology, 2019, 10, 1228-1236.	2.8	10
10	Electron dynamics of tip-tunable oxygen species on TiO <sub>2</sub> surface. Communications Materials, 2021, 2, .	6.9	10
11	Strain control of vibrational properties of few layer phosphorene. Journal of Applied Physics, 2016, 120, .	2.5	9
12	Generalized Dorokhov-Mello-Pereyra-Kumar equation for strongly localized regime: Numerical solution. Physical Review B, 2007, 76, .	3.2	8
13	Atomic force microscopy identification of Al-sites on ultrathin aluminum oxide film on NiAl(110). Nanotechnology, 2015, 26, 505704.	2.6	8
14	Raman Activity of Multilayer Phosphorene under Strain. ACS Omega, 2019, 4, 22418-22425.	3.5	8
15	van der Waals Interaction Energies of Small Fragments of P, As, Sb, S, Se, and Te: Comparison of Complete Basis Set Limit CCSD(T) and DFT with Approximate Dispersion. Journal of Chemical Theory and Computation, 2012, 8, 2301-2309.	5.3	6
16	Character of eigenstates of the three-dimensional disordered Hamiltonian. Physical Review B, 2008, 77, .	3.2	5
17	Simulation of frictional behavior of Sb nanoparticles on HOPG: Frictional duality and biduality. Physical Review B, 2011, 84, .	3.2	4
18	Charge State Tristability of Oxygen Adatom on a Rutile TiO <sub>2</sub> (110)-(1 Å-1) Surface Controlled by Atomic Force Microscopy. Journal of Physical Chemistry C, 2022, 126, 5064-5069.	3.1	4

#	ARTICLE	IF	CITATIONS
19	Unraveling the Charge States of Au Nanoclusters on an Oxygen-Rich Rutile TiO <sub>2</sub> (110) Surface and Their Triboelectrification Overturn by nc-AFM and KPFM. Journal of Physical Chemistry C, 2021, 125, 27607-27614.	3.1	4
20	Promoting Atoms into Delocalized Long-Living Magnetically Modified State Using Atomic Force Microscopy. Nano Letters, 2016, 16, 7490-7494.	9.1	2
21	Subatomic-scale resolution with SPM: Co adatom on p(2 × 1)Cu(110):O. Nanotechnology, 2019, 30, 095703.	2.6	2
22	Voltage- and Redox State-Triggered Oxygen Adatom Conductance Switch. Journal of Physical Chemistry C, 2021, 125, 26801-26807.	3.1	2
23	Structure and Properties of Heavily B and P Codoped Amorphous Silicon Quantum Dots. Journal of Physical Chemistry C, 2021, 125, 23267-23274.	3.1	1