Bernhard Reischl

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1116935/publications.pdf

Version: 2024-02-01

22	585	687363	677142
papers	citations	13 h-index	22 g-index

31	31	31	671
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanism of atomic force microscopy imaging of three-dimensional hydration structures at a solid-liquid interface. Physical Review B, 2015, 92, .	3.2	96
2	A simple approximation for forces exerted on an AFM tip in liquid. Journal of Chemical Physics, 2013, 138, 154703.	3.0	76
3	Free Energy Approaches for Modeling Atomic Force Microscopy in Liquids. Journal of Chemical Theory and Computation, 2013, 9, 600-608.	5.3	68
4	Resolving Point Defects in the Hydration Structure of Calcite (10.4) with Three-Dimensional Atomic Force Microscopy. Physical Review Letters, 2018, 120, 116101.	7.8	58
5	The statistics of electric field fluctuations in liquid water. Molecular Physics, 2009, 107, 495-502.	1.7	39
6	Rate enhancement in collisions of sulfuric acid molecules due to long-range intermolecular forces. Atmospheric Chemistry and Physics, 2019, 19, 13355-13366.	4.9	31
7	Ab initio Kinetic Monte Carlo simulations of dissolution at the NaClâ€“water interface. Physical Chemistry Chemical Physics, 2014, 16, 22545-22554.	2.8	30
8	Atomistic Simulation of Atomic Force Microscopy Imaging of Hydration Layers on Calcite, Dolomite, and Magnesite Surfaces. Journal of Physical Chemistry C, 2019, 123, 14985-14992.	3.1	30
9	Understanding 2D atomic resolution imaging of the calcite surface in water by frequency modulation atomic force microscopy. Nanotechnology, 2016, 27, 415709.	2.6	20
10	Atomistic Simulation of Ice Nucleation on Silver Iodide (0001) Surfaces with Defects. Journal of Physical Chemistry C, 2020, 124, 436-445.	3.1	20
11	Can Point Defects in Surfaces in Solution be Atomically Resolved by Atomic Force Microscopy?. Physical Review Letters, 2016, 117, 226101.	7.8	18
12	Atomistic simulations of friction at an ice-ice interface. Friction, 2013, 1, 242-251.	6.4	16
13	Tip dependence of three-dimensional scanning force microscopy images of calciteâ€“water interfaces investigated by simulation and experiments. Nanoscale, 2020, 12, 12856-12868.	5.6	15
14	Homogeneous nucleation of carbon dioxide in supersonic nozzles II: molecular dynamics simulations and properties of nucleating clusters. Physical Chemistry Chemical Physics, 2021, 23, 4517-4529.	2.8	12
15	Homogeneous nucleation of carbon dioxide in supersonic nozzles I: experiments and classical theories. Physical Chemistry Chemical Physics, 2020, 22, 19282-19298.	2.8	11
16	Flexible and modular virtual scanning probe microscope. Computer Physics Communications, 2015, 196, 429-438.	7.5	10
17	New Particle Formation from the Vapor Phase: From Barrier-Controlled Nucleation to the Collisional Limit. Journal of Physical Chemistry Letters, 2021, 12, 4593-4599.	4.6	8
18	Atomic force microscope adhesion measurements and atomistic molecular dynamics simulations at different humidities. Measurement Science and Technology, 2017, 28, 034004.	2.6	6

#	Article	IF	Citations
19	Atomistic simulation of the measurement of mechanical properties of gold nanorods by AFM. Scientific Reports, 2017, 7, 16257.	3.3	6
20	Nanoindentation of gold nanorods with an atomic force microscope. Materials Research Express, 2014, 1, 045042.	1.6	5
21	Liquid Water and Interfacial, Cubic, and Hexagonal Ice Classification through Eclipsed and Staggered Conformation Template Matching. Journal of Physical Chemistry B, 2021, 125, 3909-3917.	2.6	5
22	Nonisothermal nucleation in the gas phase is driven by cool subcritical clusters. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	4