Peter Spijker

List of Publications by Year
in descending order

36 papers	1,853 citations	304368 22 h-index	395343 33 g-index
38 all docs	38 docs citations	38 times ranked	2625 citing authors

#	Article	IF	Citations
1	High-Speed Atomic Force Microscopy of the Structure and Dynamics of Calcite Nanoscale Etch Pits. Journal of Physical Chemistry Letters, 2021, 12, 8039-8045.	2.1	5
2	Tip dependence of three-dimensional scanning force microscopy images of calciteâ€“water interfaces investigated by simulation and experiments. Nanoscale, 2020, 12, 12856-12868.	2.8	15
3	Three-dimensional solvation structure of ethanol on carbonate minerals. Beilstein Journal of Nanotechnology, 2020, 11, 891-898.	1.5	8
4	Hydration layers at the graphite-water interface: Attraction or confinement. Physical Review B, 2019, 100, .	1.1	15
5	Intrinsic Superhydrophilicity of Titania-Terminated Surfaces. Journal of Physical Chemistry C, 2017, 121, 2268-2275.	1.5	19
6	Direct quantitative measurement of the Câ•Oâ‹…â‹…â‹…Hâ€“C bond by atomic force microscopy. Science Advances, 2017, 3, e1603258.	4.7	80
7	Chemical Identification at the Solidâ€“Liquid Interface. Langmuir, 2017, 33, 125-129.	1.6	50
8	Competing Annulene and Radialene Structures in a Single Anti-Aromatic Molecule Studied by High-Resolution Atomic Force Microscopy. ACS Nano, 2017, 11, 8122-8130.	7.3	64
9	Atomic-resolution three-dimensional hydration structures on a heterogeneously charged surface. Nature Communications, 2017, 8, 2111.	5.8	57
10	Dissolution Processes at Step Edges of Calcite in Water Investigated by High-Speed Frequency Modulation Atomic Force Microscopy and Simulation. Nano Letters, 2017, 17, 4083-4089.	4.5	67
11	Molecular Resolution of the Water Interface at an Alkali Halide with Terraces and Steps. Journal of Physical Chemistry C, 2016, 120, 19714-19722.	1.5	21
12	Visualising the molecular alteration of the calcite (104)â€‰â€“â€‰water interface by sodium nitrate. Scientific Reports, 2016, 6, 21576.	1.6	37
13	Understanding 2D atomic resolution imaging of the calcite surface in water by frequency modulation atomic force microscopy. Nanotechnology, 2016, 27, 415709.	1.3	20
14	Thermal control of sequential on-surface transformation of a hydrocarbon molecule on a copper surface. Nature Communications, 2016, 7, 12711.	5.8	71
15	Flexible and modular virtual scanning probe microscope. Computer Physics Communications, 2015, 196, 429-438.	3.0	10
16	Atomically controlled substitutional boron-doping of graphene nanoribbons. Nature Communications, 2015, 6, 8098.	5.8	400
17	Mechanism of atomic force microscopy imaging of three-dimensional hydration structures at a solid-liquid interface. Physical Review B, 2015, 92, .	1.1	96
18	Gas-surface interactions using accommodation coefficients for a dilute and a dense gas in a micro- or nanochannel: Heat flux predictions using combined molecular dynamics and Monte Carlo techniques. Physical Review E, 2014, 89, 053012.	0.8	8

#	Article	IF	Citations
19	Water-induced correlation between single ions imaged at the solidâ€“liquid interface. Nature Communications, 2014, 5, 4400.	5.8	150
20	Understanding the Interface of Liquids with an Organic Crystal Surface from Atomistic Simulations and AFM Experiments. Journal of Physical Chemistry C, 2014, 118, 2058-2066.	1.5	23
21	Ab initio Kinetic Monte Carlo simulations of dissolution at the NaClâ€“water interface. Physical Chemistry Chemical Physics, 2014, 16, 22545-22554.	1.3	30
22	Direct Visualization of Single Ions in the Stern Layer of Calcite. Langmuir, 2013, 29, 2207-2216.	1.6	150
23	Relations between roughness, temperature and dry sliding friction at the atomic scale. Tribology International, 2013, 59, 222-229.	3.0	48
24	On the Propagation of Slip Fronts at Frictional Interfaces. Tribology Letters, 2012, 48, 27-32.	1.2	50
25	The effect of loading on surface roughness at the atomistic level. Computational Mechanics, 2012, 50, 273-283.	2.2	32
26	Dry Sliding Contact Between Rough Surfaces at the Atomistic Scale. Tribology Letters, 2011, 44, 279-285.	1.2	49
27	Thermal Effects on the Friction of Sliding Rough Surfaces. , 2011, , .		0
28	Coarse Grained Molecular Dynamics Simulations of Transmembrane Protein-Lipid Systems. International Journal of Molecular Sciences, 2010, 11, 2393-2420.	1.8	25
29	Computation of accommodation coefficients and the use of velocity correlation profiles in molecular dynamics simulations. Physical Review E, 2010, 81, 011203.	0.8	72
30	Vesicle Deformation by Draining: Geometrical and Topological Shape Changes. Journal of Physical Chemistry B, 2009, 113, 8731-8737.	1.2	41
31	Velocity Correlations Between Impinging and Reflecting Particles Using MD Simulations and Different Wall Models. , 2008, , .		1
32	Velocity Correlations and Accommodation Coefficients for Gas-Wall Interactions in Nanochannels. , 2008, , .		5
33	Implicit particle wall boundary condition in molecular dynamics. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2008, 222, 855-864.	1.1	10
34	New Derivation of a Particle Wall Boundary Condition in Molecular Dynamics. , 2007, , 767.		0
35	Dynamic behavior of fully solvated beta2-adrenergic receptor, embedded in the membrane with bound agonist or antagonist. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4882-4887.	3.3	43
36	The Bilayerâ^'Vesicle Transition Is Entropy Driven. Journal of Physical Chemistry B, 2005, 109, 22649-22654.	1.2	80