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	Atomically controlled substitutional boron-doping of graphene nanoribbons. Nature Communications, 2015, 6, 8098.	5.8	400
2	Direct Visualization of Single Ions in the Stern Layer of Calcite. Langmuir, 2013, 29, 2207-2216.	1.6	150
3	Water-induced correlation between single ions imaged at the solidâ€“liquid interface. Nature Communications, 2014, 5, 4400.	5.8	150
4	Mechanism of atomic force microscopy imaging of three-dimensional hydration structures at a solid-liquid interface. Physical Review B, 2015, 92, .	1.1	96
5	The Bilayerâˆ’Vesicle Transition Is Entropy Driven. Journal of Physical Chemistry B, 2005, 109, 22649-22654.	1.2	80
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	Computation of accommodation coefficients and the use of velocity correlation profiles in molecular dynamics simulations. Physical Review E, 2010, 81, 011203.	0.8	72
8	Thermal control of sequential on-surface transformation of a hydrocarbon molecule on a copper surface. Nature Communications, 2016, 7, 12711.	5.8	71
9	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
10	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
11	Atomic-resolution three-dimensional hydration structures on a heterogeneously charged surface. Nature Communications, 2017, 8, 2111.	5.8	57
12	On the Propagation of Slip Fronts at Frictional Interfaces. Tribology Letters, 2012, 48, 27-32.	1.2	50
13	Chemical Identification at the Solidâ€“Liquid Interface. Langmuir, 2017, 33, 125-129.	1.6	50
14	Dry Sliding Contact Between Rough Surfaces at the Atomistic Scale. Tribology Letters, 2011, 44, 279-285.	1.2	49
15	Relations between roughness, temperature and dry sliding friction at the atomic scale. Tribology International, 2013, 59, 222-229.	3.0	48
16	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
17	Vesicle Deformation by Draining: Geometrical and Topological Shape Changes. Journal of Physical Chemistry B, 2009, 113, 8731-8737.	1.2	41
18	Visualising the molecular alteration of the calcite (104)â€‰â€“â€‰water interface by sodium nitrate. Scientific Reports, 2016, 6, 21576.	1.6	37

#	Article	IF	Citations
19	The effect of loading on surface roughness at the atomistic level. Computational Mechanics, 2012, 50, 273-283.	2.2	32
20	Ab initio Kinetic Monte Carlo simulations of dissolution at the NaClâ€“water interface. Physical Chemistry Chemical Physics, 2014, 16, 22545-22554.	1.3	30
21	Coarse Grained Molecular Dynamics Simulations of Transmembrane Protein-Lipid Systems. International Journal of Molecular Sciences, 2010, 11, 2393-2420.	1.8	25
22	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
23	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
24	Understanding 2D atomic resolution imaging of the calcite surface in water by frequency modulation atomic force microscopy. Nanotechnology, 2016, 27, 415709.	1.3	20
25	Intrinsic Superhydrophilicity of Titania-Terminated Surfaces. Journal of Physical Chemistry C, 2017, 121, 2268-2275.	1.5	19
26	Hydration layers at the graphite-water interface: Attraction or confinement. Physical Review B, 2019, 100, .	1.1	15
27	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
28	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
29	Flexible and modular virtual scanning probe microscope. Computer Physics Communications, 2015, 196, 429-438.	3.0	10
30	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
31	Three-dimensional solvation structure of ethanol on carbonate minerals. Beilstein Journal of Nanotechnology, 2020, 11, 891-898.	1.5	8
32	Velocity Correlations and Accommodation Coefficients for Gas-Wall Interactions in Nanochannels. , 2008, , .		5
33	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
34	Velocity Correlations Between Impinging and Reflecting Particles Using MD Simulations and Different Wall Models. , 2008, , .		1
35	New Derivation of a Particle Wall Boundary Condition in Molecular Dynamics. , 2007, , 767.		0
36	Thermal Effects on the Friction of Sliding Rough Surfaces. , 2011, , .		0