

Kislon VoÃtchovsky

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

3,427
citations

230014

27
h-index

156644

58
g-index

64
all docs

64
docs citations

64
times ranked

6329
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a setup to characterize capillary liquid bridges between liquid infused surfaces. AIP Advances, 2022, 12, .	0.6	1
2	Gold surface cleaning by etching polishing: Optimization of polycrystalline film topography and surface functionality for biosensing. Surfaces and Interfaces, 2021, 22, 100818.	1.5	5
3	Development of a flexure-based nano-actuator for high-frequency high-resolution directional sensing with atomic force microscopy. Review of Scientific Instruments, 2021, 92, 093703.	0.6	1
4	Real-time tracking of ionic nano-domains under shear flow. Scientific Reports, 2021, 11, 19540.	1.6	6
5	Lubricated friction around nanodefects. Science Advances, 2020, 6, eaaz3673.	4.7	20
6	Cotranscriptional Folding of a Bio-orthogonal Fluorescent Scaffolded RNA Origami. ACS Synthetic Biology, 2020, 9, 1682-1692.	1.9	13
7	Nanoscale Mapping of the Directional Flow Patterns at Liquid-Solid Interfaces. Physical Review Applied, 2020, 13, .	1.5	10
8	Effect of Ageing on the Structure and Properties of Model Liquid-Infused Surfaces. Langmuir, 2020, 36, 3461-3470.	1.6	20
9	Self-assembly of small molecules at hydrophobic interfaces using group effect. Nanoscale, 2020, 12, 5452-5463.	2.8	27
10	Impact of water on the lubricating properties of hexadecane at the nanoscale. Nanoscale, 2020, 12, 14504-14513.	2.8	12
11	Coating and Stabilization of Liposomes by Clathrin-Inspired DNA Self-Assembly. ACS Nano, 2020, 14, 2316-2323.	7.3	38
12	Long-lived ionic nano-domains can modulate the stiffness of soft interfaces. Nanoscale, 2019, 11, 4376-4384.	2.8	21
13	Determining the spring constant of arbitrarily shaped cantilevers in viscous environments. Applied Physics Letters, 2018, 112, .	1.5	10
14	A non-destructive method to calibrate the torsional spring constant of atomic force microscope cantilevers in viscous environments. Journal of Applied Physics, 2018, 124, .	1.1	7
15	In Situ Molecular-Level Observation of Methanol Catalysis at the Water-Graphite Interface. ACS Applied Materials & Interfaces, 2018, 10, 34265-34271.	4.0	11
16	Impact of Electric Fields on the Nanoscale Behavior of Lipid Monolayers at the Surface of Graphite in Solution. Langmuir, 2018, 34, 9561-9571.	1.6	7
17	Isothermal folding of a light-up bio-orthogonal RNA origami nanoribbon. Scientific Reports, 2018, 8, 6989.	1.6	22
18	Substrate-led cholesterol extraction from supported lipid membranes. Nanoscale, 2018, 10, 16332-16342.	2.8	13

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19	Lubricating properties of single metal ions at interfaces. <i>Nanoscale</i> , 2018, 10, 11831-11840.	2.8	21
20	Direct observation of the dynamics of single metal ions at the interface with solids in aqueous solutions. <i>Scientific Reports</i> , 2017, 7, 43234.	1.6	44
21	Simultaneous viscosity and density measurement of small volumes of liquids using a vibrating microcantilever. <i>Analyst, The</i> , 2017, 142, 1492-1498.	1.7	24
22	Ions Modulate Stress-Induced Nanotexture in Supported Fluid Lipid Bilayers. <i>Biophysical Journal</i> , 2017, 113, 426-439.	0.2	13
23	Sub-nanometre mapping of the aquaporinâ€“water interface using multifrequency atomic force microscopy. <i>Soft Matter</i> , 2017, 13, 187-195.	1.2	18
24	Effect of temperature on the viscoelastic properties of nano-confined liquid mixtures. <i>Nanoscale</i> , 2016, 8, 17472-17482.	2.8	8
25	Molecular Resolution in situ Imaging of Spontaneous Graphene Exfoliation. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3118-3122.	2.1	34
26	Visualising the molecular alteration of the calcite (104)â€“water interface by sodium nitrate. <i>Scientific Reports</i> , 2016, 6, 21576.	1.6	37
27	Thermally-nucleated self-assembly of water and alcohol into stable structures at hydrophobic interfaces. <i>Nature Communications</i> , 2016, 7, 13064.	5.8	33
28	Sub-nanometer Resolution Imaging with Amplitude-modulation Atomic Force Microscopy in Liquid. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	21
29	Swelling Behavior and Nanomechanical Properties of (Peptide-Modified) Poly(2-hydroxyethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 4609-4618.	2.2	19
30	Buffering agents modify the hydration landscape at charged interfaces. <i>Soft Matter</i> , 2016, 12, 2642-2651.	1.2	26
31	Ion structure controls ionic liquid near-surface and interfacial nanostructure. <i>Chemical Science</i> , 2015, 6, 527-536.	3.7	93
32	High-resolution AFM in liquid: what about the tip?. <i>Nanotechnology</i> , 2015, 26, 100501.	1.3	9
33	Growth and Dissolution of Calcite in the Presence of Adsorbed Stearic Acid. <i>Langmuir</i> , 2015, 31, 7563-7571.	1.6	34
34	In Situ Mapping of the Molecular Arrangement of Amphiphilic Dye Molecules at the TiO ₂ Surface of Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10834-10842.	4.0	30
35	Near surface properties of mixtures of propylammonium nitrate with n-alkanols 1. <i>Nanostructure. Physical Chemistry Chemical Physics</i> , 2015, 17, 26621-26628.	1.3	14
36	Water-induced correlation between single ions imaged at the solidâ€“liquid interface. <i>Nature Communications</i> , 2014, 5, 4400.	5.8	150

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37	Trace concentration of Huge impact: Nitrate in the calcite/Eu(III) system. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 125, 528-538.	1.6	10
38	An aqueous red emitting fluorescent fluoride sensing probe exhibiting a large Stokes shift and its application in cell imaging. <i>Chemical Communications</i> , 2014, 50, 320-322.	2.2	119
39	3-Dimensional atomic scale structure of the ionic liquid-graphite interface elucidated by AM-AFM and quantum chemical simulations. <i>Nanoscale</i> , 2014, 6, 8100-8106.	2.8	78
40	Lipid tail protrusions mediate the insertion of nanoparticles into model cell membranes. <i>Nature Communications</i> , 2014, 5, 4482.	5.8	183
41	A colorimetric and ratiometric fluorescent probe for sulfite based on an intramolecular cleavage mechanism. <i>Luminescence</i> , 2014, 29, 749-753.	1.5	29
42	In-situ investigation of adsorption of dye and coadsorbates on TiO ₂ films using QCM-D, fluorescence and AFM techniques. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
43	The interplay between apparent viscosity and wettability in nanoconfined water. <i>Nature Communications</i> , 2013, 4, 2482.	5.8	227
44	Direct Visualization of Single Ions in the Stern Layer of Calcite. <i>Langmuir</i> , 2013, 29, 2207-2216.	1.6	150
45	Adsorbed and near surface structure of ionic liquids at a solid interface. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3320.	1.3	114
46	Electrical Method to Quantify Nanoparticle Interaction with Lipid Bilayers. <i>ACS Nano</i> , 2013, 7, 932-942.	7.3	89
47	Low-Voltage Self-Assembled Monolayer Field-Effect Transistors on Flexible Substrates. <i>Advanced Materials</i> , 2013, 25, 4511-4514.	11.1	78
48	Identifying champion nanostructures for solar water-splitting. <i>Nature Materials</i> , 2013, 12, 842-849.	13.3	527
49	Anharmonicity, solvation forces, and resolution in atomic force microscopy at the solid-liquid interface. <i>Physical Review E</i> , 2013, 88, 022407.	0.8	41
50	High-resolution imaging of solvation structures with amplitude-modulation atomic force microscopy. <i>Proceedings of SPIE</i> , 2012, , .	0.8	11
51	Temperature-dependent phase transitions in zeptoliter volumes of a complex biological membrane. <i>Nanotechnology</i> , 2011, 22, 055709.	1.3	13
52	Low-Voltage p- and n-Type Organic Self-Assembled Monolayer Field Effect Transistors. <i>Nano Letters</i> , 2011, 11, 156-159.	4.5	108
53	Concept of a Molecular Charge Storage Dielectric Layer for Organic Thin-Film Memory Transistors. <i>Advanced Materials</i> , 2010, 22, 2525-2528.	11.1	113
54	Direct mapping of the solid-liquid adhesion energy with subnanometre resolution. <i>Nature Nanotechnology</i> , 2010, 5, 401-405.	15.6	163

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55	Controlled ionic condensation at the surface of a native extremophile membrane. <i>Nanoscale</i> , 2010, 2, 222-229.	2.8	18
56	The effect of nanometre-scale structure on interfacial energy. <i>Nature Materials</i> , 2009, 8, 837-842.	13.3	215
57	Dynamics of bacteriorhodopsin 2D crystal observed by high-speed atomic force microscopy. <i>Journal of Structural Biology</i> , 2009, 167, 153-158.	1.3	93
58	Lateral coupling and cooperative dynamics in the function of the native membrane protein bacteriorhodopsin. <i>Soft Matter</i> , 2009, 5, 4899.	1.2	8
59	Inter-Oligomer Interactions of the Human Prion Protein Are Modulated by the Polymorphism at Codon 129. <i>Journal of Molecular Biology</i> , 2008, 381, 212-220.	2.0	18
60	Electrostatic and Steric Interactions Determine Bacteriorhodopsin Single-Molecule Biomechanics. <i>Biophysical Journal</i> , 2007, 93, 2024-2037.	0.2	8
61	Differential Stiffness and Lipid Mobility in the Leaflets of Purple Membranes. <i>Biophysical Journal</i> , 2006, 90, 2075-2085.	0.2	56
62	2P532 High-resolution dynamic imaging of membrane proteins by high-speed AFM (52. Bio-imaging, Poster) Tj ETQq0.0 0 rgBT ₀ /Overlock		
63	Ultrafast Excited State Dynamics of the Protonated Schiff Base of All-trans Retinal in Solvents. <i>Biophysical Journal</i> , 2005, 88, 2779-2788.	0.2	84
64	Ultrafast photophysics of the protonated Schiff base of retinal in alcohols studied by femtosecond fluorescence up-conversion. , 2004, , 457-460.		2