

Jason I Kilpatrick

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,039
citations

567144

15
h-index

713332

21
g-index

24
all docs

24
docs citations

24
times ranked

1760
citing authors

#	ARTICLE	IF	CITATIONS
1	Directly Probing the Effects of Ions on Hydration Forces at Interfaces. Journal of the American Chemical Society, 2013, 135, 2628-2634.	6.6	131
2	Aging and ocular tissue stiffness in glaucoma. Survey of Ophthalmology, 2018, 63, 56-74.	1.7	117
3	A virtual instrument to standardise the calibration of atomic force microscope cantilevers. Review of Scientific Instruments, 2016, 87, 093711.	0.6	114
4	Probing charge screening dynamics and electrochemical processes at the solid-liquid interface with electrochemical force microscopy. Nature Communications, 2014, 5, 3871.	5.8	97
5	Towards nanoscale electrical measurements in liquid by advanced KPFM techniques: a review. Reports on Progress in Physics, 2018, 81, 086101.	8.1	70
6	Nanoscale Piezoelectric Properties of Self-Assembled Fmoc-FF Peptide Fibrous Networks. ACS Applied Materials & Interfaces, 2015, 7, 12702-12707.	4.0	69
7	Piezoelectric Tensor of Collagen Fibrils Determined at the Nanoscale. ACS Biomaterials Science and Engineering, 2017, 3, 929-935.	2.6	69
8	Phase modulation atomic force microscope with true atomic resolution. Review of Scientific Instruments, 2006, 77, 123703.	0.6	55
9	Dual harmonic Kelvin probe force microscopy at the graphene-liquid interface. Applied Physics Letters, 2014, 104, .	1.5	50
10	Impact of Hydrophilic/Hydrophobic Surface Chemistry on Hydration Forces in the Absence of Confinement. Langmuir, 2012, 28, 6589-6594.	1.6	46
11	Nanomechanics of Cells and Biomaterials Studied by Atomic Force Microscopy. Advanced Healthcare Materials, 2015, 4, 2456-2474.	3.9	38
12	Kelvin probe force microscopy in liquid using electrochemical force microscopy. Beilstein Journal of Nanotechnology, 2015, 6, 201-214.	1.5	38
13	Bone cell elasticity and morphology changes during the cell cycle. Journal of Biomechanics, 2011, 44, 1484-1490.	0.9	35
14	Culturing substrates influence the morphological, mechanical and biochemical features of lung adenocarcinoma cells cultured in 2D or 3D. Tissue and Cell, 2018, 50, 15-30.	1.0	25
15	Increased Substrate Stiffness Elicits a Myofibroblastic Phenotype in Human Lamina Cribrosa Cells. , 2018, 59, 803.		21
16	Direct Submolecular Scale Imaging of Mesoscale Molecular Order in Supported Dipalmitoylphosphatidylcholine Bilayers. Langmuir, 2011, 27, 3749-3753.	1.6	19
17	Investigation of AFM-based machining of ferroelectric thin films at the nanoscale. Journal of Applied Physics, 2020, 127, .	1.1	15
18	Quantitative comparison of closed-loop and dual harmonic Kelvin probe force microscopy techniques. Review of Scientific Instruments, 2018, 89, 123708.	0.6	13

#	ARTICLE	IF	CITATIONS
19	Distribution of shallow NV centers in diamond revealed by photoluminescence spectroscopy and nanomachining. Carbon, 2020, 167, 114-121.	5.4	6
20	High viscosity environments: an unexpected route to obtain true atomic resolution with atomic force microscopy. Nanotechnology, 2014, 25, 175701.	1.3	5
21	Double-Tip Artifact Removal From Atomic Force Microscopy Images. IEEE Transactions on Image Processing, 2016, 25, 2774-2788.	6.0	4
22	Foreword to the Special Issue on SPM-Based Nanofabrication: Machining, Electrochemistry, and Lithography. Nanomanufacturing and Metrology, 2022, 5, 1-1.	1.5	2
23	Automated registration of low and high resolution atomic force microscopy images using scale invariant features. , 2014, , .		0
24	High Resolution Imaging Atomic Force Microscope Study of Interactions at the Membrane-Fluid Interface. Biophysical Journal, 2016, 110, 580a-581a.	0.2	0