

# Jason I Kilpatrick

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

1,039  
citations

566801

15  
h-index

713013

21  
g-index

24  
all docs

24  
docs citations

24  
times ranked

1760  
citing authors

#	ARTICLE	IF	CITATIONS
1	Foreword to the Special Issue on SPM-Based Nanofabrication: Machining, Electrochemistry, and Lithography. <i>Nanomanufacturing and Metrology</i> , 2022, 5, 1-1.	1.5	2
2	Investigation of AFM-based machining of ferroelectric thin films at the nanoscale. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	15
3	Distribution of shallow NV centers in diamond revealed by photoluminescence spectroscopy and nanomachining. <i>Carbon</i> , 2020, 167, 114-121.	5.4	6
4	Aging and ocular tissue stiffness in glaucoma. <i>Survey of Ophthalmology</i> , 2018, 63, 56-74.	1.7	117
5	Culturing substrates influence the morphological, mechanical and biochemical features of lung adenocarcinoma cells cultured in 2D or 3D. <i>Tissue and Cell</i> , 2018, 50, 15-30.	1.0	25
6	Quantitative comparison of closed-loop and dual harmonic Kelvin probe force microscopy techniques. <i>Review of Scientific Instruments</i> , 2018, 89, 123708.	0.6	13
7	Towards nanoscale electrical measurements in liquid by advanced KPFM techniques: a review. <i>Reports on Progress in Physics</i> , 2018, 81, 086101.	8.1	70
8	Increased Substrate Stiffness Elicits a Myofibroblastic Phenotype in Human Lamina Cribrosa Cells. , 2018, 59, 803.		21
9	Piezoelectric Tensor of Collagen Fibrils Determined at the Nanoscale. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 929-935.	2.6	69
10	A virtual instrument to standardise the calibration of atomic force microscope cantilevers. <i>Review of Scientific Instruments</i> , 2016, 87, 093711.	0.6	114
11	High Resolution Imaging Atomic Force Microscope Study of Interactions at the Membrane-Fluid Interface. <i>Biophysical Journal</i> , 2016, 110, 580a-581a.	0.2	0
12	Double-Tip Artifact Removal From Atomic Force Microscopy Images. <i>IEEE Transactions on Image Processing</i> , 2016, 25, 2774-2788.	6.0	4
13	Nanomechanics of Cells and Biomaterials Studied by Atomic Force Microscopy. <i>Advanced Healthcare Materials</i> , 2015, 4, 2456-2474.	3.9	38
14	Kelvin probe force microscopy in liquid using electrochemical force microscopy. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 201-214.	1.5	38
15	Nanoscale Piezoelectric Properties of Self-Assembled Fmoc-FF Peptide Fibrous Networks. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 12702-12707.	4.0	69
16	Automated registration of low and high resolution atomic force microscopy images using scale invariant features. , 2014, , .		0
17	Probing charge screening dynamics and electrochemical processes at the solid-liquid interface with electrochemical force microscopy. <i>Nature Communications</i> , 2014, 5, 3871.	5.8	97
18	Dual harmonic Kelvin probe force microscopy at the graphene-liquid interface. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	50

#	ARTICLE	IF	CITATIONS
19	High viscosity environments: an unexpected route to obtain true atomic resolution with atomic force microscopy. <i>Nanotechnology</i> , 2014, 25, 175701.	1.3	5
20	Directly Probing the Effects of Ions on Hydration Forces at Interfaces. <i>Journal of the American Chemical Society</i> , 2013, 135, 2628-2634.	6.6	131
21	Impact of Hydrophilic/Hydrophobic Surface Chemistry on Hydration Forces in the Absence of Confinement. <i>Langmuir</i> , 2012, 28, 6589-6594.	1.6	46
22	Direct Submolecular Scale Imaging of Mesoscale Molecular Order in Supported Dipalmitoylphosphatidylcholine Bilayers. <i>Langmuir</i> , 2011, 27, 3749-3753.	1.6	19
23	Bone cell elasticity and morphology changes during the cell cycle. <i>Journal of Biomechanics</i> , 2011, 44, 1484-1490.	0.9	35
24	Phase modulation atomic force microscope with true atomic resolution. <i>Review of Scientific Instruments</i> , 2006, 77, 123703.	0.6	55