

# Jason P Killgore

## List of Publications by Year in descending order

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33  
papers

672  
citations

623734

14  
h-index

580821

25  
g-index

35  
all docs

35  
docs citations

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times ranked

767  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative Viscoelastic Mapping of Polyolefin Blends with Contact Resonance Atomic Force Microscopy. <i>Macromolecules</i> , 2012, 45, 4363-4370.	4.8	90
2	Quantitative subsurface contact resonance force microscopy of model polymer nanocomposites. <i>Nanotechnology</i> , 2011, 22, 175706.	2.6	88
3	Continuous Measurement of Atomic Force Microscope Tip Wear by Contact Resonance Force Microscopy. <i>Small</i> , 2011, 7, 1018-1022.	10.0	47
4	Measurement of Viscoelastic Loss Tangent with Contact Resonance Modes of Atomic Force Microscopy. <i>Macromolecules</i> , 2013, 46, 9396-9402.	4.8	45
5	Low-force AFM nanomechanics with higher-eigenmode contact resonance spectroscopy. <i>Nanotechnology</i> , 2012, 23, 055702.	2.6	43
6	Nanomechanics of cellulose deformation reveal molecular defects that facilitate natural deconstruction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9825-9830.	7.1	40
7	Contact Resonance Force Microscopy for Viscoelastic Property Measurements: From Fundamentals to State-of-the-Art Applications. <i>Macromolecules</i> , 2018, 51, 6977-6996.	4.8	37
8	Quantitative Contact Resonance Force Microscopy for Viscoelastic Measurement of Soft Materials at the Solid-Liquid Interface. <i>Langmuir</i> , 2015, 31, 11143-11149.	3.5	25
9	Liquid contact resonance atomic force microscopy via experimental reconstruction of the hydrodynamic function. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	23
10	Vibrational shape tracking of atomic force microscopy cantilevers for improved sensitivity and accuracy of nanomechanical measurements. <i>Nanotechnology</i> , 2015, 26, 045701.	2.6	20
11	Nanoscale hygromechanical behavior of lignin. <i>Cellulose</i> , 2018, 25, 6345-6360.	4.9	18
12	Determination of the True Lateral Grain Size in Organic-Inorganic Halide Perovskite Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 33565-33570.	8.0	17
13	Hydrodynamic corrections to contact resonance atomic force microscopy measurements of viscoelastic loss tangent. <i>Review of Scientific Instruments</i> , 2013, 84, 073703.	1.3	16
14	Higher-eigenmode piezoresponse force microscopy: a path towards increased sensitivity and the elimination of electrostatic artifacts. <i>Nano Futures</i> , 2018, 2, 015005.	2.2	16
15	Tunable Mechanical Anisotropy, Crack Guiding, and Toughness Enhancement in Two-Stage Reactive Polymer Networks. <i>Advanced Engineering Materials</i> , 2019, 21, 1900578.	3.5	16
16	Monitoring Fast, Voxel-Scale Cure Kinetics via Sample-Coupled-Resonance Photorheology. <i>Small Methods</i> , 2019, 3, 1800275.	8.6	15
17	Microscale Photopatterning of Through-Thickness Modulus in a Monolithic and Functionally Graded 3D-Printed Part. <i>Small Science</i> , 2021, 1, 2000017.	9.9	14
18	Photothermally excited force modulation microscopy for broadband nanomechanical property measurements. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	12

#	ARTICLE	IF	CITATIONS
19	Characterizing the free and surface-coupled vibrations of heated-tip atomic force microscope cantilevers. <i>Nanotechnology</i> , 2014, 25, 345701.	2.6	11
20	Experimental reconstruction of the contact resonance shape factor for quantification and amplification of bias-induced strain in atomic force microscopy. <i>Applied Physics Letters</i> , 2019, 114, 133108.	3.3	11
21	Pulsed contact resonance for atomic force microscopy nanomechanical measurements. <i>Applied Physics Letters</i> , 2012, 100, 053104.	3.3	10
22	Electrostatically-blind quantitative piezoresponse force microscopy free of distributed-force artifacts. <i>Nanoscale Advances</i> , 2022, 4, 2036-2045.	4.6	7
23	Voxel-Scale Conversion Mapping Informs Intrinsic Resolution in Stereolithographic Additive Manufacturing. <i>ACS Applied Polymer Materials</i> , 2021, 3, 290-298.	4.4	6
24	Scanning speed phenomenon in contact-resonance atomic force microscopy. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 945-952.	2.8	5
25	Digital light processing in a hybrid atomic force microscope: In Situ, nanoscale characterization of the printing process. <i>Additive Manufacturing</i> , 2021, 38, 101744.	3.0	5
26	Deciphering osteoconductive surface charge effects in sintered hydroxyapatite via piezoresponse force microscopy. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	5
27	Reconstructing the distributed force on an atomic force microscope cantilever. <i>Nanotechnology</i> , 2017, 28, 104002.	2.6	4
28	Error estimation and enhanced stiffness sensitivity in contact resonance force microscopy with a multiple arbitrary frequency lock-in amplifier (MAFLIA). <i>Measurement Science and Technology</i> , 2020, 31, 115009.	2.6	4
29	Spatially Controlled Permeability and Stiffness in Photopatterned Two-Stage Reactive Polymer Films for Enhanced CO <sub>2</sub> Barrier and Mechanical Toughness. <i>Macromolecules</i> , 2021, 54, 44-52.	4.8	4
30	Viscoelastic-mapping of cellulose nanofibrils using low-total-force contact resonance force microscopy (LTF-CRFM). <i>Cellulose</i> , 2022, 29, 5493-5509.	4.9	4
31	Isomorphic contact resonance force microscopy and piezoresponse force microscopy of an AlN thin film: demonstration of a new contact resonance technique. <i>Nano Futures</i> , 2020, 4, 025003.	2.2	3
32	Photopatterning of two stage reactive polymer networks with CO <sub>2</sub> -philic thiol- <i>acrylate</i> chemistry: enhanced mechanical toughness and CO <sub>2</sub> /N <sub>2</sub> selectivity. <i>Polymer Chemistry</i> , 2022, 13, 2495-2505.	3.9	2
33	Nanomechanical Insights into Voxel-scale Photopolymer Cure. <i>Microscopy and Microanalysis</i> , 2020, 26, 1964-1966.	0.4	0