

Roger Proksch

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69
papers

4,469
citations

33
h-index

66
g-index

73
ext. papers

5,035
ext. citations

7.7
avg, IF

5.48
L-index

#	Paper	IF	Citations
69	Correlating Crystallographic Orientation and Ferroic Properties of Twin Domains in Metal Halide Perovskites. <i>ACS Nano</i> , 2021 , 15, 7139-7148	16.7	7
68	Nanomechanical sampling of material for nanoscale mass spectrometry chemical analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 2747-2754	4.4	
67	Discrimination of adhesion and viscoelasticity from nanoscale maps of polymer surfaces using bimodal atomic force microscopy. <i>Nanoscale</i> , 2021 , 13, 17428-17441	7.7	2
66	High-Speed Nanomechanical Mapping of the Early Stages of Collagen Growth by Bimodal Force Microscopy. <i>ACS Nano</i> , 2021 , 15, 1850-1857	16.7	9
65	Sub-7-nm textured ZrO ₂ with giant ferroelectricity. <i>Acta Materialia</i> , 2021 , 205, 116536	8.4	6
64	Nanoscale Mass Spectrometry Multimodal Imaging Tip-Enhanced Photothermal Desorption. <i>ACS Nano</i> , 2020 ,	16.7	3
63	Enhanced ferroelectricity in ultrathin films grown directly on silicon. <i>Nature</i> , 2020 , 580, 478-482	50.4	232
62	Quantitative Electromechanical Atomic Force Microscopy. <i>ACS Nano</i> , 2019 , 13, 8055-8066	16.7	58
61	Ferroic twin domains in metal halide perovskites. <i>MRS Advances</i> , 2019 , 4, 2817-2830	0.7	5
60	Photoinduced Thermal Desorption on an Atomic Force Microscope Platform Coupled with Mass Spectrometry for Multimodal Imaging. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1064-1065	0.5	
59	Reply to: On the ferroelectricity of CHNHPbI perovskites. <i>Nature Materials</i> , 2019 , 18, 1051-1053	27	21
58	Chemical nature of ferroelastic twin domains in CHNHPbI perovskite. <i>Nature Materials</i> , 2018 , 17, 1013-1019	19	114
57	Static and dynamic calibration of torsional spring constants of cantilevers. <i>Review of Scientific Instruments</i> , 2018 , 89, 093701	1.7	3
56	Fast, High Resolution, and Wide Modulus Range Nanomechanical Mapping with Bimodal Tapping Mode. <i>ACS Nano</i> , 2017 , 11, 10097-10105	16.7	71
55	Generalized Hertz model for bimodal nanomechanical mapping. <i>Beilstein Journal of Nanotechnology</i> , 2016 , 7, 970-82	3	49
54	Practical loss tangent imaging with amplitude-modulated atomic force microscopy. <i>Journal of Applied Physics</i> , 2016 , 119, 134901	2.5	30
53	Calibration of higher eigenmodes of cantilevers. <i>Review of Scientific Instruments</i> , 2016 , 87, 073705	1.7	32

52	G-mode magnetic force microscopy: Separating magnetic and electrostatic interactions using big data analytics. <i>Applied Physics Letters</i> , 2016 , 108, 193103	3.4	21
51	Big, Deep, and Smart Data in Scanning Probe Microscopy. <i>ACS Nano</i> , 2016 , 10, 9068-9086	16.7	79
50	Quantitative measurements of electromechanical response with a combined optical beam and interferometric atomic force microscope. <i>Applied Physics Letters</i> , 2015 , 106, 253103	3.4	83
49	Contact resonance atomic force microscopy imaging in air and water using photothermal excitation. <i>Review of Scientific Instruments</i> , 2015 , 86, 083706	1.7	23
48	Creep compliance mapping by atomic force microscopy. <i>Polymer</i> , 2014 , 55, 219-225	3.9	28
47	Nanomechanical mapping of soft matter by bimodal force microscopy. <i>European Polymer Journal</i> , 2013 , 49, 1897-1906	5.2	164
46	Bias-dependent molecular-level structure of electrical double layer in ionic liquid on graphite. <i>Nano Letters</i> , 2013 , 13, 5954-60	11.5	117
45	High sensitivity piezomagnetic force microscopy for quantitative probing of magnetic materials at the nanoscale. <i>Nanoscale</i> , 2013 , 5, 5747-51	7.7	19
44	Spatial spectrograms of vibrating atomic force microscopy cantilevers coupled to sample surfaces. <i>Applied Physics Letters</i> , 2013 , 103, 263102	3.4	7
43	High resolution quantitative piezoresponse force microscopy of BiFeO ₃ nanofibers with dramatically enhanced sensitivity. <i>Nanoscale</i> , 2012 , 4, 408-13	7.7	71
42	Loss tangent imaging: Theory and simulations of repulsive-mode tapping atomic force microscopy. <i>Applied Physics Letters</i> , 2012 , 100, 073106	3.4	70
41	Near-field microwave scanning probe imaging of conductivity inhomogeneities in CVD graphene. <i>Nanotechnology</i> , 2012 , 23, 385706	3.4	40
40	Quantitative Viscoelastic Mapping of Polyolefin Blends with Contact Resonance Atomic Force Microscopy. <i>Macromolecules</i> , 2012 , 45, 4363-4370	5.5	77
39	MAPPING STORAGE MODULUS AND LOSS MODULUS OF POLYOLEFIN/POLYSTYRENE BLENDS WITH ATOMIC FORCE MICROSCOPY. <i>Rubber Chemistry and Technology</i> , 2012 , 85, 559-564	1.7	7
38	Comparison of scanning ion conductance microscopy with atomic force microscopy for cell imaging. <i>Langmuir</i> , 2011 , 27, 697-704	4	113
37	Li-ion dynamics and reactivity on the nanoscale. <i>Materials Today</i> , 2011 , 14, 548-558	21.8	68
36	Energy dissipation measurements in frequency-modulated scanning probe microscopy. <i>Nanotechnology</i> , 2010 , 21, 455705	3.4	25
35	Mesoscopic metal-insulator transition at ferroelastic domain walls in VO ₂ . <i>ACS Nano</i> , 2010 , 4, 4412-9	16.7	63

34	Interplay between ferroelastic and metal-insulator phase transitions in strained quasi-two-dimensional VO ₂ nanoplatelets. <i>Nano Letters</i> , 2010 , 10, 2003-11	11.5	91
33	Nanocrystalline Structure and Thermoelectric Properties of Electrospun NaCo ₂ O ₄ Nanofibers. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 22038-22043	3.8	36
32	Intermittent contact mode piezoresponse force microscopy in a liquid environment. <i>Nanotechnology</i> , 2009 , 20, 195701	3.4	27
31	Bimodal magnetic force microscopy: Separation of short and long range forces. <i>Applied Physics Letters</i> , 2009 , 94, 163118	3.4	49
30	Piezoresponse Force Microscopy. <i>Microscopy Today</i> , 2009 , 17, 10-15	0.4	5
29	Nanocrystalline multiferroic BiFeO ₃ ultrafine fibers by sol-gel based electrospinning. <i>Applied Physics Letters</i> , 2008 , 93, 222904	3.4	88
28	Dual-frequency resonance-tracking atomic force microscopy. <i>Nanotechnology</i> , 2007 , 18, 475504	3.4	365
27	The band excitation method in scanning probe microscopy for rapid mapping of energy dissipation on the nanoscale. <i>Nanotechnology</i> , 2007 , 18, 435503	3.4	383
26	Towards local electromechanical probing of cellular and biomolecular systems in a liquid environment. <i>Nanotechnology</i> , 2007 , 18, 424020	3.4	33
25	Multifrequency, repulsive-mode amplitude-modulated atomic force microscopy. <i>Applied Physics Letters</i> , 2006 , 89, 113121	3.4	179
24	Spatially and temporally synchronized atomic force and total internal reflection fluorescence microscopy for imaging and manipulating cells and biomolecules. <i>Biophysical Journal</i> , 2006 , 91, 2665-77	2.9	47
23	Normal and torsional spring constants of atomic force microscope cantilevers. <i>Review of Scientific Instruments</i> , 2004 , 75, 1988-1996	1.7	400
22	Forces in Biology and Atomic Force Microscopy (AFM) Imaging: Pull and See This!. <i>Microscopy and Microanalysis</i> , 2004 , 10, 1092-1093	0.5	
21	Magnetic force gradient mapping. <i>Journal of Applied Physics</i> , 2003 , 94, 6525-6532	2.5	7
20	Quantifying Molecular Forces: Sensitivities and Spring Constants Without Touching a Surface. <i>Microscopy and Microanalysis</i> , 2001 , 7, 862-863	0.5	
19	Magnetite defines a vertebrate magnetoreceptor. <i>Nature</i> , 2000 , 406, 299-302	50.4	196
18	Magnetic and acoustic tapping mode microscopy of liquid phase phospholipid bilayers and DNA molecules. <i>Journal of Applied Physics</i> , 2000 , 87, 526-533	2.5	65
17	Magnetic dissipation microscopy in ambient conditions. <i>Applied Physics Letters</i> , 1999 , 74, 419-421	3.4	20

16	Measuring the gigahertz response of recording heads with the magnetic force microscope. <i>Applied Physics Letters</i> , 1999 , 74, 1308-1310	3.4	41
15	Magnetic microscopies: the new additions. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 200, 720-738		26
14	Recent advances in magnetic force microscopy. <i>Current Opinion in Solid State and Materials Science</i> , 1999 , 4, 231-236	12	12
13	Comparing the resolution of magnetic force microscopes using the CAMST reference samples. <i>Journal of Magnetism and Magnetic Materials</i> , 1998 , 190, 135-147	2.8	46
12	Magnetic force microscopy of avalanche dynamics in magnetic media. <i>Journal of Applied Physics</i> , 1998 , 84, 5709-5714	2.5	11
11	Measurement of the effects of the localized field of a magnetic force microscope tip on a 180° domain wall. <i>Journal of Applied Physics</i> , 1997 , 81, 5032-5034	2.5	12
10	Does Abalone Nacre Form by Heteroepitaxial Nucleation or by Growth through Mineral Bridges?. <i>Chemistry of Materials</i> , 1997 , 9, 1731-1740	9.6	348
9	Multimodal atomic force microscopy: Biological imaging using atomic force microscopy combined with light fluorescence and confocal microscopies and electrophysiologic recording. <i>International Journal of Imaging Systems and Technology</i> , 1997 , 8, 293-300	2.5	18
8	Quantitative magnetic field measurements with the magnetic force microscope. <i>Applied Physics Letters</i> , 1996 , 69, 2599-2601	3.4	38
7	Localized micromagnetic perturbation of domain walls in magnetite using a magnetic force microscope. <i>Applied Physics Letters</i> , 1996 , 69, 3426-3428	3.4	41
6	Assembly of submicrometre ferromagnets in gallium arsenide semiconductors. <i>Nature</i> , 1995 , 377, 707-710	10.4	76
5	High field magnetic force microscopy. <i>Journal of Applied Physics</i> , 1995 , 78, 3303-3307	2.5	33
4	Magnetic fine structure of domain walls in iron films observed with a magnetic force microscope. <i>Journal of Applied Physics</i> , 1994 , 75, 5776-5778	2.5	9
3	Interactions between single domain particles. <i>Journal of Applied Physics</i> , 1994 , 75, 5894-5896	2.5	22
2	A detection technique for scanning force microscopy. <i>Review of Scientific Instruments</i> , 1993 , 64, 912-916	1.7	13
1	Optically stabilized, constant-height mode operation of a magnetic force microscope. <i>Journal of Applied Physics</i> , 1993 , 73, 5808-5810	2.5	7