

Peter Grutter

List of Publications by Year in descending order

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174
papers

7,102
citations

57631

44
h-index

71532

76
g-index

178
all docs

178
docs citations

178
times ranked

7343
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical parametric amplification and thermomechanical noise squeezing. <i>Physical Review Letters</i> , 1991, 67, 699-702.	2.9	529
2	The Mitochondrial Transcription Factor TFAM Coordinates the Assembly of Multiple DNA Molecules into Nucleoid-like Structures. <i>Molecular Biology of the Cell</i> , 2007, 18, 3225-3236.	0.9	340
3	Observation of magnetic forces by the atomic force microscope. <i>Journal of Applied Physics</i> , 1987, 62, 4293-4295.	1.1	334
4	Effect of mechanical properties of hydrogel nanoparticles on macrophage cell uptake. <i>Soft Matter</i> , 2009, 5, 3984.	1.2	211
5	Probing the Viscoelastic Behavior of Cultured Airway Smooth Muscle Cells with Atomic Force Microscopy: Stiffening Induced by Contractile Agonist. <i>Biophysical Journal</i> , 2005, 88, 2994-3007.	0.2	194
6	Surface Stress, Kinetics, and Structure of Alkanethiol Self-Assembled Monolayers. <i>Langmuir</i> , 2004, 20, 7090-7096.	1.6	167
7	Imaging and modification of polymers by scanning tunneling and atomic force microscopy. <i>Journal of Applied Physics</i> , 1988, 64, 1178-1184.	1.1	164
8	Adhesion Interaction between Atomically Defined Tip and Sample. <i>Physical Review Letters</i> , 1998, 80, 4685-4688.	2.9	145
9	Surface Relaxations, Current Enhancements, and Absolute Distances in High Resolution Scanning Tunneling Microscopy. <i>Physical Review Letters</i> , 2001, 87, 236104.	2.9	134
10	Cantilever-based sensing: the origin of surface stress and optimization strategies. <i>Nanotechnology</i> , 2010, 21, 075501.	1.3	117
11	Creation of Liquid Crystal Waveguides with Scanning Force Microscopy. <i>Science</i> , 1994, 265, 512-514.	6.0	115
12	Detection of Single-Electron Charging in an Individual InAs Quantum Dot by Noncontact Atomic-Force Microscopy. <i>Physical Review Letters</i> , 2005, 94, 056802.	2.9	109
13	Netrin-1 Promotes Excitatory Synaptogenesis between Cortical Neurons by Initiating Synapse Assembly. <i>Journal of Neuroscience</i> , 2013, 33, 17278-17289.	1.7	107
14	Growth of vapor-deposited cobalt films on Pt(111) studied by scanning tunneling microscopy. <i>Physical Review B</i> , 1994, 49, 2021-2029.	1.1	98
15	Strain Induced Dewetting of a Molecular System: Bimodal Growth of PTCDA on NaCl. <i>Physical Review Letters</i> , 2008, 100, 186104.	2.9	97
16	Batch fabricated sensors for magnetic force microscopy. <i>Applied Physics Letters</i> , 1990, 57, 1820-1822.	1.5	95
17	Tip artifacts of microfabricated force sensors for atomic force microscopy. <i>Applied Physics Letters</i> , 1992, 60, 2741-2743.	1.5	91
18	Broadband spin dynamics of the magnetic vortex state: Effect of the pulsed field direction. <i>Physical Review B</i> , 2005, 71, .	1.1	89

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19	Nonlinear characteristics and differential conductance fluctuations of Au nanowires. <i>Physical Review B</i> , 2002, 65, .	1.1	88
20	Comparative study of lithium fluoride and graphite by atomic force microscopy (AFM). <i>Journal of Microscopy</i> , 1988, 152, 269-280.	0.8	87
21	Quantitative surface stress measurements using a microcantilever. <i>Applied Physics Letters</i> , 2001, 79, 551-553.	1.5	86
22	Theoretical approach to magnetic force microscopy. <i>Physical Review B</i> , 1989, 39, 12013-12017.	1.1	85
23	Rapid Assembly of Functional Presynaptic Boutons Triggered by Adhesive Contacts. <i>Journal of Neuroscience</i> , 2009, 29, 12449-12466.	1.7	80
24	Magnetic dissipation force microscopy. <i>Applied Physics Letters</i> , 1997, 71, 279-281.	1.5	79
25	Metallic adhesion and tunnelling at the atomic scale. <i>New Journal of Physics</i> , 2000, 2, 29-29.	1.2	75
26	Energy levels of few-electron quantum dots imaged and characterized by atomic force microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 9496-9501.	3.3	75
27	Strong Electromechanical Coupling of an Atomic Force Microscope Cantilever to a Quantum Dot. <i>Physical Review Letters</i> , 2010, 104, 017203.	2.9	72
28	Atomic Force Microscopy Reveals Important Differences in Axonal Resistance to Injury. <i>Biophysical Journal</i> , 2012, 103, 405-414.	0.2	72
29	Molecular dewetting on insulators. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 423101.	0.7	65
30	Atomic force microscopy for the study of tribology and adhesion. <i>Thin Solid Films</i> , 1989, 181, 527-544.	0.8	64
31	Microcantilever-Based Sensors: Effect of Morphology, Adhesion, and Cleanliness of the Sensing Surface on Surface Stress. <i>Analytical Chemistry</i> , 2007, 79, 8136-8143.	3.2	64
32	Interleukin-13 inhibits proliferation and enhances contractility of human airway smooth muscle cells without change in contractile phenotype. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2011, 300, L958-L966.	1.3	63
33	Probing the "Dark" Fraction of Core-Shell Quantum Dots by Ensemble and Single Particle pH-Dependent Spectroscopy. <i>ACS Nano</i> , 2011, 5, 9062-9073.	7.3	62
34	Plasticity, healing and shakedown in sharp-asperity nanoindentation. <i>Nature Materials</i> , 2006, 5, 370-376.	13.3	59
35	Tuning the Electromechanical Properties of PEDOT:PSS Films for Stretchable Transistors And Pressure Sensors. <i>Advanced Electronic Materials</i> , 2019, 5, 1900191.	2.6	57
36	10 nm resolution by magnetic force microscopy on FeNdB. <i>Journal of Applied Physics</i> , 1990, 67, 1437-1441.	1.1	53

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37	A differential microcantilever-based system for measuring surface stress changes induced by electrochemical reactions. <i>Sensors and Actuators B: Chemical</i> , 2005, 107, 233-241.	4.0	53
38	A complete analysis of the laser beam deflection systems used in cantilever-based systems. <i>Ultramicroscopy</i> , 2007, 107, 422-430.	0.8	53
39	Determination of the atomic structure of scanning probe microscopy tungsten tips by field ion microscopy. <i>Physical Review B</i> , 2005, 72, .	1.1	52
40	Magnetization reversal and configurational anisotropy of dense permalloy dot arrays. <i>Applied Physics Letters</i> , 2002, 80, 4789-4791.	1.5	49
41	Construction of hysteresis loops of single domain elements and coupled permalloy ring arrays by magnetic force microscopy. <i>Journal of Applied Physics</i> , 2003, 93, 8540-8542.	1.1	48
42	Determination of the local contact potential difference of PTCDA on NaCl: a comparison of techniques. <i>Nanotechnology</i> , 2009, 20, 264012.	1.3	48
43	Magnetic force microscopy of magnetic materials. <i>Ultramicroscopy</i> , 1992, 47, 393-399.	0.8	46
44	A Common Mechanism Underlies the Dark Fraction Formation and Fluorescence Blinking of Quantum Dots. <i>ACS Nano</i> , 2009, 3, 1167-1175.	7.3	45
45	Switching Atomic Friction by Electrochemical Oxidation. <i>Langmuir</i> , 2011, 27, 2561-2566.	1.6	45
46	Atomic Force Microscopy in Viscous Ionic Liquids. <i>Langmuir</i> , 2012, 28, 5319-5322.	1.6	45
47	Redox-Induced Surface Stress of Polypyrrole-Based Actuators. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17531-17537.	1.2	44
48	Magnetic force microscopy with batch-fabricated force sensors. <i>Journal of Applied Physics</i> , 1991, 69, 5883-5885.	1.1	43
49	Metallic adhesion forces and tunneling between atomically defined tip and sample. <i>Applied Surface Science</i> , 2000, 157, 274-279.	3.1	42
50	Nanoscale Pits as Templates for Building a Molecular Device. <i>Small</i> , 2007, 3, 818-821.	5.2	42
51	Minimum Threshold for Incipient Plasticity in the Atomic-Scale Nanoindentation of Au(111). <i>Physical Review Letters</i> , 2013, 110, 135506.	2.9	42
52	High Osmotic Power Generation via Nanopore Arrays in Hybrid Hexagonal Boron Nitride/Silicon Nitride Membranes. <i>Nano Letters</i> , 2021, 21, 4152-4159.	4.5	42
53	Retrofitting an atomic force microscope with photothermal excitation for a clean cantilever response in low Q environments. <i>Review of Scientific Instruments</i> , 2012, 83, 053703.	0.6	39
54	Characterization of a gold coated cantilever surface for biosensing applications. <i>EPJ Techniques and Instrumentation</i> , 2015, 2, 1.	0.5	38

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55	Templated growth of 3,4,9,10-perylenetetracarboxylic dianhydride molecules on a nanostructured insulator. <i>Nanotechnology</i> , 2007, 18, 105303.	1.3	37
56	Monotonic Damping in Nanoscopic Hydration Experiments. <i>Physical Review Letters</i> , 2013, 110, 066102.	2.9	37
57	The limit of time resolution in frequency modulation atomic force microscopy by a pump-probe approach. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	37
58	Nanopore Formation via Tip-Controlled Local Breakdown Using an Atomic Force Microscope. <i>Small Methods</i> , 2019, 3, 1900147.	4.6	36
59	Combined in situ micromechanical cantilever-based sensing and ellipsometry. <i>Review of Scientific Instruments</i> , 2003, 74, 4902-4907.	0.6	35
60	Low-energy modes in quasicrystalline and glassy Pd _{58.8} Si _{20.6} U _{20.6} : A comparative study by neutron inelastic scattering. <i>Physical Review Letters</i> , 1987, 59, 102-105.	2.9	33
61	Cryogenic magnetic force microscope. <i>Review of Scientific Instruments</i> , 2000, 71, 3782.	0.6	33
62	From tunneling to point contact: Correlation between forces and current. <i>Physical Review B</i> , 2005, 71, .	1.1	32
63	Detection and Correction of Blinking Bias in Image Correlation Transport Measurements of Quantum Dot Tagged Macromolecules. <i>Biophysical Journal</i> , 2007, 93, 1338-1346.	0.2	32
64	Observation and manipulation of polymers by scanning tunnelling and atomic force microscopy. <i>Journal of Microscopy</i> , 1988, 152, 229-236.	0.8	31
65	Self-Assembled Masks for the Transfer of Nanometer-Scale Patterns into Surfaces: Characterization by AFM and LFM. <i>Nano Letters</i> , 2002, 2, 131-135.	4.5	31
66	Measuring Spatially Resolved Collective Ionic Transport on Lithium Battery Cathodes Using Atomic Force Microscopy. <i>Nano Letters</i> , 2017, 17, 4489-4496.	4.5	31
67	Measurement of Surface Photovoltage by Atomic Force Microscopy under Pulsed Illumination. <i>Physical Review Applied</i> , 2016, 5, .	1.5	30
68	Rapid Mechanically Controlled Rewiring of Neuronal Circuits. <i>Journal of Neuroscience</i> , 2016, 36, 979-987.	1.7	30
69	Magnetic dissipation force microscopy studies of magnetic materials (invited). <i>Journal of Applied Physics</i> , 1998, 83, 7333-7338.	1.1	29
70	Systematic study of magnetic tip induced magnetization reversal of e-beam patterned permalloy particles. <i>Journal of Applied Physics</i> , 2002, 91, 7340.	1.1	29
71	The Effect of Photoinduced Surface Oxygen Vacancies on the Charge Carrier Dynamics in TiO ₂ Films. <i>Nano Letters</i> , 2021, 21, 8348-8354.	4.5	29
72	Quasidendritic growth of Co induced by localized reconstruction of Pt(111). <i>Surface Science</i> , 1995, 337, 147-152.	0.8	28

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73	Calibrating laser beam deflection systems for use in atomic force microscopes and cantilever sensors. <i>Applied Physics Letters</i> , 2006, 88, 083108.	1.5	28
74	Dendritic Polyglycerol Sulfates in the Prevention of Synaptic Loss and Mechanism of Action on Glia. <i>ACS Chemical Neuroscience</i> , 2018, 9, 260-271.	1.7	28
75	Modeling Interactions among Individual P2 Receptors to Explain Complex Response Patterns over a Wide Range of ATP Concentrations. <i>Frontiers in Physiology</i> , 2016, 7, 294.	1.3	27
76	Universal Aging Mechanism for Static and Sliding Friction of Metallic Nanoparticles. <i>Physical Review Letters</i> , 2016, 117, 025502.	2.9	27
77	Control of domain patterns in square shaped nickel rings. <i>Journal of Applied Physics</i> , 2003, 93, 7059-7061.	1.1	26
78	Dendritic Spine Viscoelasticity and Soft-Glassy Nature: Balancing Dynamic Remodeling with Structural Stability. <i>Biophysical Journal</i> , 2007, 92, 1419-1430.	0.2	26
79	Quantum state readout of individual quantum dots by electrostatic force detection. <i>Nanotechnology</i> , 2017, 28, 064001.	1.3	26
80	Analysis of in-plane bit structure by magnetic force microscopy. <i>Journal of Applied Physics</i> , 1990, 67, 3462-3467.	1.1	25
81	Spatially resolved observation of domain-wall propagation in a submicron ferromagnetic NOT-gate. <i>Applied Physics Letters</i> , 2005, 87, 062503.	1.5	25
82	Conductivity of an atomically defined metallic interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19097-19102.	3.3	25
83	Magnetization switching in 70-nm-wide pseudo-spin-valve nanoelements. <i>Journal of Applied Physics</i> , 2003, 93, 1132-1136.	1.1	24
84	Molecular resolution imaging of C60 on Au(111) by non-contact atomic force microscopy. <i>Nanotechnology</i> , 2004, 15, S40-S43.	1.3	24
85	Relating the Functional Properties of an Organic Semiconductor to Molecular Structure by nc-AFM. <i>Advanced Materials</i> , 2009, 21, 2029-2033.	11.1	24
86	Refined tip preparation by electrochemical etching and ultrahigh vacuum treatment to obtain atomically sharp tips for scanning tunneling microscope and atomic force microscope. <i>Review of Scientific Instruments</i> , 2011, 82, 113903.	0.6	24
87	Characterization of blinking dynamics in quantum dot ensembles using image correlation spectroscopy. <i>Journal of Applied Physics</i> , 2006, 99, 064503.	1.1	23
88	Revealing Energy Level Structure of Individual Quantum Dots by Tunneling Rate Measured by Single-Electron Sensitive Electrostatic Force Spectroscopy. <i>Nano Letters</i> , 2015, 15, 2324-2328.	4.5	23
89	Review of time-resolved non-contact electrostatic force microscopy techniques with applications to ionic transport measurements. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 617-633.	1.5	23
90	Quinones of azulene. 3. Generation and trapping of the reactive 1,4- and 1,6-quinones. <i>Journal of the American Chemical Society</i> , 1984, 106, 4852-4856.	6.6	22

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91	Momentum filtering effect in molecular wires. <i>Physical Review B</i> , 2004, 70, .	1.1	22
92	Controlled deposition of gold nanodots using non-contact atomic force microscopy. <i>Nanotechnology</i> , 2005, 16, 1083-1088.	1.3	22
93	Room-Temperature Single-Electron Charging Detected by Electrostatic Force Microscopy. <i>ACS Nano</i> , 2013, 7, 4683-4690.	7.3	22
94	Imaging, Manipulation, and Spectroscopic Measurements of Nanomagnets by Magnetic Force Microscopy. <i>MRS Bulletin</i> , 2004, 29, 457-462.	1.7	21
95	Excited-State Spectroscopy on an Individual Quantum Dot Using Atomic Force Microscopy. <i>Nano Letters</i> , 2012, 12, 709-713.	4.5	21
96	Kelvin Probe Force Microscopy by Dissipative Electrostatic Force Modulation. <i>Physical Review Applied</i> , 2015, 4, .	1.5	21
97	Estimating the magnetic penetration depth using constant-height magnetic force microscopy images of vortices. <i>New Journal of Physics</i> , 2001, 3, 24-24.	1.2	20
98	DNA- α -Protein Noncovalent Cross-Linking: Ruthenium Dipyridophenazine Biotin Complex for the Assembly of Proteins and Gold Nanoparticles on DNA Templates. <i>ChemBioChem</i> , 2007, 8, 804-812.	1.3	20
99	Local modification of magnetic properties by an electron beam. <i>Applied Physics Letters</i> , 1998, 73, 3598-3600.	1.5	18
100	Stochastic noise in atomic force microscopy. <i>Physical Review E</i> , 2012, 86, 031104.	0.8	18
101	Piezoresistive torque magnetometry below 1 K. <i>Applied Physics Letters</i> , 1999, 74, 451-453.	1.5	17
102	Use of an electron-beam evaporator for the creation of nanostructured pits in an insulating surface. <i>Applied Physics Letters</i> , 2006, 88, 233121.	1.5	17
103	Theory of magnetoelastic dissipation due to domain wall width oscillation. <i>Journal of Applied Physics</i> , 1998, 83, 5922-5926.	1.1	16
104	Magnetic force microscopy studies of patterned magnetic structures. <i>IEEE Transactions on Magnetics</i> , 2003, 39, 3420-3425.	1.2	16
105	Low temperature electrostatic force microscopy of a deep two-dimensional electron gas using a quartz tuning fork. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	16
106	Tailoring the Morphology and Dewetting of an Organic Thin Film. <i>Journal of Physical Chemistry C</i> , 2011, 115, 217-224.	1.5	16
107	Implementation of atomically defined field ion microscopy tips in scanning probe microscopy. <i>Nanotechnology</i> , 2012, 23, 335702.	1.3	16
108	An Electrochemically Controlled Microcantilever Biosensor. <i>Langmuir</i> , 2013, 29, 9951-9957.	1.6	16

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109	Flux lattice imaging of a patterned niobium thin film. <i>Journal of Applied Physics</i> , 2001, 89, 6787-6789.	1.1	15
110	Large Dynamic Range Digital Nanodot Gradients of Biomolecules Made by Low-Cost Nanocontact Printing for Cell Haptotaxis. <i>Small</i> , 2013, 9, 3308-3313.	5.2	15
111	Indentation-formed nanocontacts: an atomic-scale perspective. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8201-8222.	1.3	15
112	Force-gradient sensitive Kelvin probe force microscopy by dissipative electrostatic force modulation. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	15
113	Theory of magnetic dissipation imaging. <i>Applied Physics Letters</i> , 1997, 71, 1418-1420.	1.5	14
114	Nanodot Gradients: Large Dynamic Range Digital Nanodot Gradients of Biomolecules Made by Low-Cost Nanocontact Printing for Cell Haptotaxis (Small 19/2013). <i>Small</i> , 2013, 9, 3186-3186.	5.2	14
115	Fully Quantized Electron Transfer Observed in a Single Redox Molecule at a Metal Interface. <i>Nano Letters</i> , 2019, 19, 6104-6108.	4.5	14
116	Layer-by-layer growth of sodium chloride overlayers on an Fe(001)-p(1 × 1)O surface. <i>Nanotechnology</i> , 2012, 23, 505602.	1.3	13
117	Dynamics of presynaptic protein recruitment induced by local presentation of artificial adhesive contacts. <i>Developmental Neurobiology</i> , 2013, 73, 98-106.	1.5	13
118	Magnetic imaging and dissipation force microscopy of vortices on superconducting Nb films. <i>Applied Surface Science</i> , 2002, 188, 416-420.	3.1	12
119	A study of the AgBr(111) and AgBr(100) surface by means of atomic force microscopy. <i>Journal of Applied Physics</i> , 1989, 66, 4243-4247.	1.1	11
120	Direct observation of magnetostatic coupling of chain arrays of magnetic disks. <i>IEEE Transactions on Magnetics</i> , 2003, 39, 2744-2746.	1.2	11
121	High-resolution investigation of metal nanoparticle growth on an insulating surface. <i>Physical Review B</i> , 2009, 80, .	1.1	11
122	Improved atomic force microscopy cantilever performance by partial reflective coating. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 1450-1456.	1.5	11
123	Ergodic and Nonergodic Dynamics of Oxygen Vacancy Migration at the Nanoscale in Inorganic Perovskites. <i>Nano Letters</i> , 2020, 20, 7530-7535.	4.5	11
124	High-aspect ratio metal tips attached to atomic force microscopy cantilevers with controlled angle, length, and radius for electrostatic force microscopy. <i>Review of Scientific Instruments</i> , 2007, 78, 113706.	0.6	10
125	Silicon nanostencils with integrated support structures. <i>Microelectronic Engineering</i> , 2010, 87, 652-657.	1.1	10
126	Reactive growth of MgO overlayers on Fe(001) surfaces studied by low-energy electron diffraction and atomic force microscopy. <i>Applied Surface Science</i> , 2013, 273, 247-252.	3.1	10

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127	Large tunnel magnetoresistance ratio in Fe/O/NaCl/O/Fe. <i>Journal of Applied Physics</i> , 2015, 118, 093902.	1.1	10
128	Direct imaging, three-dimensional interaction spectroscopy, and friction anisotropy of atomic-scale ripples on MoS ₂ . <i>Npj 2D Materials and Applications</i> , 2020, 4, .	3.9	10
129	How high is a MoSe ₂ monolayer?. <i>Nanotechnology</i> , 2022, 33, 125706.	1.3	10
130	Investigation of hydrogenated amorphous carbon coatings for magnetic data storage media by atomic force microscopy. <i>Applied Physics Letters</i> , 1989, 55, 1624-1626.	1.5	9
131	Topography and correlation to wear of hydrogenated amorphous carbon coatings: An atomic force microscopy study. <i>Wear</i> , 1989, 135, 109-117.	1.5	9
132	High-Q optical fiber tips for NC-AFM in liquid. <i>Nanotechnology</i> , 2009, 20, 264018.	1.3	9
133	FIM tips in SPM: Apex orientation and temperature considerations on atom transfer and diffusion. <i>Applied Surface Science</i> , 2014, 305, 124-132.	3.1	9
134	Calibration of the oscillation amplitude of electrically excited scanning probe microscopy sensors. <i>Review of Scientific Instruments</i> , 2019, 90, 013703.	0.6	9
135	Spatially resolved low-frequency noise measured by atomic force microscopy. <i>Physical Review B</i> , 2009, 79, .	1.1	8
136	Local membrane deformation and micro-injury lead to qualitatively different responses in osteoblasts. <i>F1000Research</i> , 2014, 3, 162.	0.8	8
137	Surface and domain structures of ferroelectric GASH crystals studied by scanning force microscopy. <i>Surface Science Letters</i> , 1993, 285, L498-L502.	0.1	7
138	The role of charge-induced defects in the growth of gold on an alkali halide surface. <i>Surface Science</i> , 2008, 602, L21-L24.	0.8	7
139	Note: Electrochemical etching of sharp iridium tips. <i>Review of Scientific Instruments</i> , 2011, 82, 116105.	0.6	7
140	Stochastic simulation of tip-sample interactions in atomic force microscopy. <i>Applied Physics Letters</i> , 2012, 101, 113105.	1.5	7
141	Eliminating the effect of acoustic noise on cantilever spring constant calibration. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	7
142	Nanoscale force sensing of an ultrafast nonlinear optical response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19773-19779.	3.3	7
143	Physical properties of icosahedral and glassy Pd ₄₁ Ni ₄₀ Si alloys. <i>Materials Science and Engineering</i> , 1988, 99, 357-360.	0.1	6
144	Can magnetic-force microscopy determine micromagnetic structures?. <i>Geophysical Journal International</i> , 1994, 116, 502-505.	1.0	6

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145	Determination of T_c , vortex creation and vortex imaging of a superconducting Nb film using low-temperature magnetic force microscopy. <i>Journal of Applied Physics</i> , 2002, 91, 8840.	1.1	6
146	Comment on "Temperature dependence of the energy dissipation in dynamic force microscopy". <i>Nanotechnology</i> , 2008, 19, 398001.	1.3	6
147	Field deposition from metallic tips onto insulating substrates. <i>Nanotechnology</i> , 2011, 22, 465301.	1.3	6
148	Transient adhesion and conductance phenomena in initial nanoscale mechanical contacts between dissimilar metals. <i>Nanotechnology</i> , 2013, 24, 475704.	1.3	6
149	Scanning gate imaging of two coupled quantum dots in single-walled carbon nanotubes. <i>Nanotechnology</i> , 2014, 25, 495703.	1.3	6
150	Selective <i>in situ</i> potential-assisted SAM formation on multi electrode arrays. <i>Nanotechnology</i> , 2016, 27, 455501.	1.3	6
151	Relating Franck-Condon blockade to redox chemistry in the single-particle picture. <i>Journal of Chemical Physics</i> , 2018, 149, 104109.	1.2	6
152	An apparatus based on an atomic force microscope for implementing tip-controlled local breakdown. <i>Review of Scientific Instruments</i> , 2019, 90, 123703.	0.6	6
153	Charge Carrier Inversion in a Doped Thin Film Organic Semiconductor Island. <i>ACS Nano</i> , 2021, 15, 10377-10383.	7.3	6
154	Vibrational Density of States of Quasicrystalline, Glassy and Polycrystalline Pd Si U Measured at 296 K and at 220 K*. <i>Zeitschrift Fur Physikalische Chemie</i> , 1988, 157, 817-822.	1.4	5
155	Magnetic force microscopy and x-ray scattering study of 70Å—550Å ² pseudo-spin-valve nanomagnets. <i>Journal of Applied Physics</i> , 2003, 93, 7927-7929.	1.1	5
156	Seeing the charge within. <i>Nature Nanotechnology</i> , 2012, 7, 210-211.	15.6	5
157	Effect of using stencil masks made by focused ion beam milling on permalloy (Ni ₈₁ Fe ₁₉) nanostructures. <i>Nanotechnology</i> , 2013, 24, 115301.	1.3	5
158	Adsorption of PTCDA and C ₆₀ on KBr(001): electrostatic interaction versus electronic hybridization. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 11008-11016.	1.3	5
159	Rewiring Neuronal Circuits: A New Method for Fast Neurite Extension and Functional Neuronal Connection. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	5
160	Amplitude Dependence of Resonance Frequency and its Consequences for Scanning Probe Microscopy. <i>Sensors</i> , 2019, 19, 4510.	2.1	5
161	Reorganization takes energy. <i>Nature Nanotechnology</i> , 2018, 13, 360-361.	15.6	4
162	Response of mechanically-created neurites to extension. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 98, 121-130.	1.5	4

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163	Reversing adhesion with light: a general method for functionalized bead release from cells. <i>Biomaterials Science</i> , 2016, 4, 1193-1196.	2.6	3
164	Optical excitation of atomic force microscopy cantilever for accurate spectroscopic measurements. <i>EPJ Techniques and Instrumentation</i> , 2020, 7, .	0.5	3
165	Data analysis of nonlinear systems: Application to Au nanowires. <i>Review of Scientific Instruments</i> , 2002, 73, 3324-3328.	0.6	2
166	Properties of amorphous Al ¹⁰⁰ Yb alloy coating for scanning near-field optical microscopy tips. <i>Journal of Applied Physics</i> , 2002, 92, 6895-6899.	1.1	2
167	Field Ion Microscopy for the Characterization of Scanning Probes. , 2015, , 159-198.		2
168	Quantifying bio-filament morphology below the diffraction limit of an optical microscope using out-of-focus images. <i>Applied Optics</i> , 2020, 59, 2914.	0.9	2
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