

# Peter Grutter

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/8004200/peter-grutter-publications-by-year.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

170  
papers

5,982  
citations

41  
h-index

70  
g-index

178  
ext. papers

6,617  
ext. citations

5.2  
avg, IF

5.45  
L-index

#	Paper	IF	Citations
170	High Osmotic Power Generation via Nanopore Arrays in Hybrid Hexagonal Boron Nitride/Silicon Nitride Membranes. <i>Nano Letters</i> , <b>2021</b> , 21, 4152-4159	11.5	7
169	Charge Carrier Inversion in a Doped Thin Film Organic Semiconductor Island. <i>ACS Nano</i> , <b>2021</b> , 15, 10377-10383	10.3	0
168	The Effect of Photoinduced Surface Oxygen Vacancies on the Charge Carrier Dynamics in TiO Films. <i>Nano Letters</i> , <b>2021</b> , 21, 8348-8354	11.5	10
167	Electrostatic Force Microscopy: Measuring Ion Mobility, Non-linear Optical Signals and Achieving Ultimate Time Resolution. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 2984-2987	0.5	
166	Optical excitation of atomic force microscopy cantilever for accurate spectroscopic measurements. <i>EPJ Techniques and Instrumentation</i> , <b>2020</b> , 7,	1.8	2
165	Quantifying bio-filament morphology below the diffraction limit of an optical microscope using out-of-focus images. <i>Applied Optics</i> , <b>2020</b> , 59, 2914-2923	1.7	1
164	Ergodic and Nonergodic Dynamics of Oxygen Vacancy Migration at the Nanoscale in Inorganic Perovskites. <i>Nano Letters</i> , <b>2020</b> , 20, 7530-7535	11.5	2
163	Nanoscale force sensing of an ultrafast nonlinear optical response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 19773-19779	11.5	3
162	Direct imaging, three-dimensional interaction spectroscopy, and friction anisotropy of atomic-scale ripples on MoS <sub>2</sub> . <i>Npj 2D Materials and Applications</i> , <b>2020</b> , 4,	8.8	5
161	Fully Quantized Electron Transfer Observed in a Single Redox Molecule at a Metal Interface. <i>Nano Letters</i> , <b>2019</b> , 19, 6104-6108	11.5	9
160	Calibration of the oscillation amplitude of electrically excited scanning probe microscopy sensors. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 013703	1.7	8
159	Response of mechanically-created neurites to extension. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2019</b> , 98, 121-130	4.1	3
158	Nanopore Formation via Tip-Controlled Local Breakdown Using an Atomic Force Microscope. <i>Small Methods</i> , <b>2019</b> , 3, 1900147	12.8	24
157	Tuning the Electromechanical Properties of PEDOT:PSS Films for Stretchable Transistors And Pressure Sensors. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1900191	6.4	29
156	Review of time-resolved non-contact electrostatic force microscopy techniques with applications to ionic transport measurements. <i>Beilstein Journal of Nanotechnology</i> , <b>2019</b> , 10, 617-633	3	14
155	Amplitude Dependence of Resonance Frequency and its Consequences for Scanning Probe Microscopy. <i>Sensors</i> , <b>2019</b> , 19,	3.8	3
154	An apparatus based on an atomic force microscope for implementing tip-controlled local breakdown. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 123703	1.7	3

153	Reorganization takes energy. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 360-361	28.7	2
152	Dissipation Modulated Kelvin Probe Force Microscopy Method. <i>Springer Series in Surface Sciences</i> , <b>2018</b> , 23-47	0.4	1
151	Dendritic Polyglycerol Sulfates in the Prevention of Synaptic Loss and Mechanism of Action on Glia. <i>ACS Chemical Neuroscience</i> , <b>2018</b> , 9, 260-271	5.7	19
150	Eliminating the effect of acoustic noise on cantilever spring constant calibration. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 233105	3.4	3
149	Relating Franck-Condon blockade to redox chemistry in the single-particle picture. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 104109	3.9	5
148	Quantum state readout of individual quantum dots by electrostatic force detection. <i>Nanotechnology</i> , <b>2017</b> , 28, 064001	3.4	19
147	The limit of time resolution in frequency modulation atomic force microscopy by a pump-probe approach. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 053111	3.4	27
146	Force-gradient sensitive Kelvin probe force microscopy by dissipative electrostatic force modulation. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 163103	3.4	13
145	Measuring Spatially Resolved Collective Ionic Transport on Lithium Battery Cathodes Using Atomic Force Microscopy. <i>Nano Letters</i> , <b>2017</b> , 17, 4489-4496	11.5	22
144	Rewiring Neuronal Circuits: A New Method for Fast Neurite Extension and Functional Neuronal Connection. <i>Journal of Visualized Experiments</i> , <b>2017</b> ,	1.6	5
143	Universal Aging Mechanism for Static and Sliding Friction of Metallic Nanoparticles. <i>Physical Review Letters</i> , <b>2016</b> , 117, 025502	7.4	25
142	Measurement of Surface Photovoltage by Atomic Force Microscopy under Pulsed Illumination. <i>Physical Review Applied</i> , <b>2016</b> , 5,	4.3	23
141	Rapid Mechanically Controlled Rewiring of Neuronal Circuits. <i>Journal of Neuroscience</i> , <b>2016</b> , 36, 979-87	6.6	21
140	Modeling Interactions among Individual P2 Receptors to Explain Complex Response Patterns over a Wide Range of ATP Concentrations. <i>Frontiers in Physiology</i> , <b>2016</b> , 7, 294	4.6	17
139	Reversing adhesion with light: a general method for functionalized bead release from cells. <i>Biomaterials Science</i> , <b>2016</b> , 4, 1193-6	7.4	3
138	Adsorption of PTCDA and C <sub>60</sub> KBr(001): electrostatic interaction versus electronic hybridization. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 11008-16	3.6	5
137	Sensitivity measurement of a cantilever-based surface stress sensor. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 154704	3.9	0
136	Selective in situ potential-assisted SAM formation on multi electrode arrays. <i>Nanotechnology</i> , <b>2016</b> , 27, 455501	3.4	3

135	Characterization of a gold coated cantilever surface for biosensing applications. <i>EPJ Techniques and Instrumentation</i> , <b>2015</b> , 2, 1	1.8	26
134	Revealing energy level structure of individual quantum dots by tunneling rate measured by single-electron sensitive electrostatic force spectroscopy. <i>Nano Letters</i> , <b>2015</b> , 15, 2324-8	11.5	20
133	Large tunnel magnetoresistance ratio in Fe/O/NaCl/O/Fe. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 093902	2.5	9
132	Kelvin Probe Force Microscopy by Dissipative Electrostatic Force Modulation. <i>Physical Review Applied</i> , <b>2015</b> , 4,	4.3	18
131	Improved atomic force microscopy cantilever performance by partial reflective coating. <i>Beilstein Journal of Nanotechnology</i> , <b>2015</b> , 6, 1450-6	3	9
130	Field Ion Microscopy for the Characterization of Scanning Probes <b>2015</b> , 159-198		2
129	FIM tips in SPM: Apex orientation and temperature considerations on atom transfer and diffusion. <i>Applied Surface Science</i> , <b>2014</b> , 305, 124-132	6.7	8
128	Indentation-formed nanocontacts: an atomic-scale perspective. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 8201-22	3.6	12
127	Scanning gate imaging of two coupled quantum dots in single-walled carbon nanotubes. <i>Nanotechnology</i> , <b>2014</b> , 25, 495703	3.4	6
126	Local membrane deformation and micro-injury lead to qualitatively different responses in osteoblasts. <i>F1000Research</i> , <b>2014</b> , 3, 162	3.6	7
125	Transient adhesion and conductance phenomena in initial nanoscale mechanical contacts between dissimilar metals. <i>Nanotechnology</i> , <b>2013</b> , 24, 475704	3.4	6
124	Netrin-1 promotes excitatory synaptogenesis between cortical neurons by initiating synapse assembly. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 17278-89	6.6	75
123	Minimum threshold for incipient plasticity in the atomic-scale nanoindentation of Au(111). <i>Physical Review Letters</i> , <b>2013</b> , 110, 135506	7.4	37
122	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> , <b>2013</b> , 9, 3186-3186	11	13
121	Reactive growth of MgO overlayers on Fe(001) surfaces studied by low-energy electron diffraction and atomic force microscopy. <i>Applied Surface Science</i> , <b>2013</b> , 273, 247-252	6.7	10
120	Large dynamic range digital nanodot gradients of biomolecules made by low-cost nanocontact printing for cell haptotaxis. <i>Small</i> , <b>2013</b> , 9, 3308-13	11	12
119	Effect of using stencil masks made by focused ion beam milling on permalloy (Ni81Fe19) nanostructures. <i>Nanotechnology</i> , <b>2013</b> , 24, 115301	3.4	4
118	Room-temperature single-electron charging detected by electrostatic force microscopy. <i>ACS Nano</i> , <b>2013</b> , 7, 4683-90	16.7	18

117	An electrochemically controlled microcantilever biosensor. <i>Langmuir</i> , <b>2013</b> , 29, 9951-7	4	16
116	Dynamics of presynaptic protein recruitment induced by local presentation of artificial adhesive contacts. <i>Developmental Neurobiology</i> , <b>2013</b> , 73, 98-106	3.2	10
115	Monotonic damping in nanoscopic hydration experiments. <i>Physical Review Letters</i> , <b>2013</b> , 110, 066102	7.4	33
114	Conductivity of an atomically defined metallic interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 19097-102	11.5	24
113	Excited-state spectroscopy on an individual quantum dot using atomic force microscopy. <i>Nano Letters</i> , <b>2012</b> , 12, 709-13	11.5	19
112	Electrostatic Force Microscopy Characterization of Low Dimensional Systems. <i>Springer Series in Surface Sciences</i> , <b>2012</b> , 175-199	0.4	1
111	Implementation of atomically defined field ion microscopy tips in scanning probe microscopy. <i>Nanotechnology</i> , <b>2012</b> , 23, 335702	3.4	16
110	Retrofitting an atomic force microscope with photothermal excitation for a clean cantilever response in low Q environments. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 053703	1.7	37
109	Atomic force microscopy in viscous ionic liquids. <i>Langmuir</i> , <b>2012</b> , 28, 5319-22	4	43
108	Atomic force microscopy reveals important differences in axonal resistance to injury. <i>Biophysical Journal</i> , <b>2012</b> , 103, 405-414	2.9	57
107	Stochastic noise in atomic force microscopy. <i>Physical Review E</i> , <b>2012</b> , 86, 031104	2.4	17
106	Layer-by-layer growth of sodium chloride overlayers on an Fe(001)-p(1 × 1)O surface. <i>Nanotechnology</i> , <b>2012</b> , 23, 505602	3.4	8
105	Stochastic simulation of tip-sample interactions in atomic force microscopy. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 113105	3.4	7
104	Field deposition from metallic tips onto insulating substrates. <i>Nanotechnology</i> , <b>2011</b> , 22, 465301	3.4	4
103	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> , <b>2011</b> , 82, 113903	1.7	20
102	Probing the "dark" fraction of core-shell quantum dots by ensemble and single particle pH-dependent spectroscopy. <i>ACS Nano</i> , <b>2011</b> , 5, 9062-73	16.7	52
101	Switching atomic friction by electrochemical oxidation. <i>Langmuir</i> , <b>2011</b> , 27, 2561-6	4	39
100	Tailoring the Morphology and Dewetting of an Organic Thin Film. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 217-224	3.8	14

99	Note: electrochemical etching of sharp iridium tips. <i>Review of Scientific Instruments</i> , <b>2011</b> , 82, 116105	1.7	6
98	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> , <b>2011</b> , 300, L958-66	5.8	58
97	Low temperature electrostatic force microscopy of a deep two-dimensional electron gas using a quartz tuning fork. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 143107	3.4	16
96	Strong electromechanical coupling of an atomic force microscope cantilever to a quantum dot. <i>Physical Review Letters</i> , <b>2010</b> , 104, 017203	7.4	63
95	Cantilever-based sensing: the origin of surface stress and optimization strategies. <i>Nanotechnology</i> , <b>2010</b> , 21, 75501	3.4	97
94	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> , <b>2010</b> , 107, 9496-501	11.5	67
93	Silicon nanostencils with integrated support structures. <i>Microelectronic Engineering</i> , <b>2010</b> , 87, 652-657	2.5	10
92	High-resolution investigation of metal nanoparticle growth on an insulating surface. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	10
91	Spatially resolved low-frequency noise measured by atomic force microscopy. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	8
90	Determination of the local contact potential difference of PTCDA on NaCl: a comparison of techniques. <i>Nanotechnology</i> , <b>2009</b> , 20, 264012	3.4	41
89	Molecular dewetting on insulators. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 423101	1.8	54
88	Relating the Functional Properties of an Organic Semiconductor to Molecular Structure by nc-AFM. <i>Advanced Materials</i> , <b>2009</b> , 21, 2029-2033	24	18
87	A common mechanism underlies the dark fraction formation and fluorescence blinking of quantum dots. <i>ACS Nano</i> , <b>2009</b> , 3, 1167-75	16.7	39
86	Rapid assembly of functional presynaptic boutons triggered by adhesive contacts. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 12449-66	6.6	73
85	High Q optical fiber tips for NC-AFM in liquid. <i>Nanotechnology</i> , <b>2009</b> , 20, 264018	3.4	6
84	Effect of mechanical properties of hydrogel nanoparticles on macrophage cell uptake. <i>Soft Matter</i> , <b>2009</b> , 5, 3984	3.6	169
83	Comment on Temperature dependence of the energy dissipation in dynamic force microscopy. <i>Nanotechnology</i> , <b>2008</b> , 19, 398001	3.4	6
82	Strain induced dewetting of a molecular system: bimodal growth of PTCDA on NaCl. <i>Physical Review Letters</i> , <b>2008</b> , 100, 186104	7.4	89

81	The role of charge-induced defects in the growth of gold on an alkali halide surface. <i>Surface Science</i> , <b>2008</b> , 602, L21-L24	1.8	7
80	The mitochondrial transcription factor TFAM coordinates the assembly of multiple DNA molecules into nucleoid-like structures. <i>Molecular Biology of the Cell</i> , <b>2007</b> , 18, 3225-36	3.5	283
79	Microcantilever-based sensors: effect of morphology, adhesion, and cleanliness of the sensing surface on surface stress. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 8136-43	7.8	60
78	Dendritic spine viscoelasticity and soft-glassy nature: balancing dynamic remodeling with structural stability. <i>Biophysical Journal</i> , <b>2007</b> , 92, 1419-30	2.9	22
77	Detection and correction of blinking bias in image correlation transport measurements of quantum dot tagged macromolecules. <i>Biophysical Journal</i> , <b>2007</b> , 93, 1338-46	2.9	32
76	DNA-protein noncovalent cross-linking: ruthenium dipyridophenazine biotin complex for the assembly of proteins and gold nanoparticles on DNA templates. <i>ChemBioChem</i> , <b>2007</b> , 8, 804-12	3.8	19
75	A complete analysis of the laser beam deflection systems used in cantilever-based systems. <i>Ultramicroscopy</i> , <b>2007</b> , 107, 422-30	3.1	42
74	Nanoscale pits as templates for building a molecular device. <i>Small</i> , <b>2007</b> , 3, 818-21	11	39
73	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> , <b>2007</b> , 78, 113706	1.7	10
72	Templated growth of 3,4,9,10-perylenetetracarboxylic dianhydride molecules on a nanostructured insulator. <i>Nanotechnology</i> , <b>2007</b> , 18, 105303	3.4	36
71	Use of an electron-beam evaporator for the creation of nanostructured pits in an insulating surface. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 233121	3.4	16
70	Calibrating laser beam deflection systems for use in atomic force microscopes and cantilever sensors. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 083108	3.4	24
69	Characterization of blinking dynamics in quantum dot ensembles using image correlation spectroscopy. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 064503	2.5	21
68	Plasticity, healing and shakedown in sharp-asperity nanoindentation. <i>Nature Materials</i> , <b>2006</b> , 5, 370-6	27	55
67	Broadband spin dynamics of the magnetic vortex state: Effect of the pulsed field direction. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	85
66	Probing the viscoelastic behavior of cultured airway smooth muscle cells with atomic force microscopy: stiffening induced by contractile agonist. <i>Biophysical Journal</i> , <b>2005</b> , 88, 2994-3007	2.9	174
65	Redox-induced surface stress of polypyrrole-based actuators. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 17531-7	3.4	42
64	Determination of the atomic structure of scanning probe microscopy tungsten tips by field ion microscopy. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	47

63	A differential microcantilever-based system for measuring surface stress changes induced by electrochemical reactions. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 107, 233-241	8.5	48
62	From tunneling to point contact: Correlation between forces and current. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	32
61	Detection of single-electron charging in an individual InAs quantum dot by noncontact atomic-force microscopy. <i>Physical Review Letters</i> , <b>2005</b> , 94, 056802	7.4	100
60	Spatially resolved observation of domain-wall propagation in a submicron ferromagnetic NOT-gate. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 062503	3.4	20
59	Controlled deposition of gold nanodots using non-contact atomic force microscopy. <i>Nanotechnology</i> , <b>2005</b> , 16, 1083-1088	3.4	16
58	Momentum filtering effect in molecular wires. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	22
57	Imaging, Manipulation, and Spectroscopic Measurements of Nanomagnets by Magnetic Force Microscopy. <i>MRS Bulletin</i> , <b>2004</b> , 29, 457-462	3.2	17
56	Molecular resolution imaging of C60 on Au(111) by non-contact atomic force microscopy. <i>Nanotechnology</i> , <b>2004</b> , 15, S40-S43	3.4	23
55	Surface stress, kinetics, and structure of alkanethiol self-assembled monolayers. <i>Langmuir</i> , <b>2004</b> , 20, 7090-6	4	150
54	Construction of hysteresis loops of single domain elements and coupled permalloy ring arrays by magnetic force microscopy. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 8540-8542	2.5	41
53	Magnetization switching in 70-nm-wide pseudo-spin-valve nanoelements. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 1132-1136	2.5	22
52	Magnetic force microscopy and x-ray scattering study of 70x50 nm <sup>2</sup> pseudo-spin-valve nanomagnets. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 7927-7929	2.5	5
51	Magnetic force microscopy studies of patterned magnetic structures. <i>IEEE Transactions on Magnetism</i> , <b>2003</b> , 39, 3420-3425	2	15
50	Combined in situ micromechanical cantilever-based sensing and ellipsometry. <i>Review of Scientific Instruments</i> , <b>2003</b> , 74, 4902-4907	1.7	34
49	Direct observation of magnetostatic coupling of chain arrays of magnetic disks. <i>IEEE Transactions on Magnetism</i> , <b>2003</b> , 39, 2744-2746	2	11
48	Control of domain patterns in square shaped nickel rings. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 7059-7061	2.5	24
47	Magnetic imaging and dissipation force microscopy of vortices on superconducting Nb films. <i>Applied Surface Science</i> , <b>2002</b> , 188, 416-420	6.7	11
46	Systematic study of magnetic tip induced magnetization reversal of e-beam patterned permalloy particles. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 7340	2.5	27

45	IV characteristics and differential conductance fluctuations of Au nanowires. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	84
44	Data analysis of nonlinear systems: Application to Au nanowires. <i>Review of Scientific Instruments</i> , <b>2002</b> , 73, 3324-3328	1.7	2
43	Properties of amorphous Al <sub>75</sub> Bi alloy coating for scanning near-field optical microscopy tips. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 6895-6899	2.5	2
42	Determination of T <sub>c</sub> , vortex creation and vortex imaging of a superconducting Nb film using low-temperature magnetic force microscopy. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 8840	2.5	6
41	Self-Assembled Masks for the Transfer of Nanometer-Scale Patterns into Surfaces: Characterization by AFM and LFM. <i>Nano Letters</i> , <b>2002</b> , 2, 131-135	11.5	23
40	Magnetization reversal and configurational anisotropy of dense permalloy dot arrays. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 4789-4791	3.4	42
39	Flux lattice imaging of a patterned niobium thin film. <i>Journal of Applied Physics</i> , <b>2001</b> , 89, 6787-6789	2.5	15
38	Surface relaxations, current enhancements, and absolute distances in high resolution scanning tunneling microscopy. <i>Physical Review Letters</i> , <b>2001</b> , 87, 236104	7.4	101
37	Quantitative surface stress measurements using a microcantilever. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 551-553	3.4	73
36	Estimating the magnetic penetration depth using constant-height magnetic force microscopy images of vortices. <i>New Journal of Physics</i> , <b>2001</b> , 3, 24-24	2.9	17
35	Metallic adhesion forces and tunneling between atomically defined tip and sample. <i>Applied Surface Science</i> , <b>2000</b> , 157, 274-279	6.7	13
34	Cryogenic magnetic force microscope. <i>Review of Scientific Instruments</i> , <b>2000</b> , 71, 3782	1.7	31
33	Metallic adhesion and tunnelling at the atomic scale. <i>New Journal of Physics</i> , <b>2000</b> , 2, 29-29	2.9	44
32	Piezoresistive torque magnetometry below 1 K. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 451-453	3.4	17
31	Theory of magnetoelastic dissipation due to domain wall width oscillation. <i>Journal of Applied Physics</i> , <b>1998</b> , 83, 5922-5926	2.5	15
30	Local modification of magnetic properties by an electron beam. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 3598-3600	3.4	16
29	Adhesion Interaction between Atomically Defined Tip and Sample. <i>Physical Review Letters</i> , <b>1998</b> , 80, 4685-4688	7.4	103
28	Magnetic dissipation force microscopy studies of magnetic materials (invited). <i>Journal of Applied Physics</i> , <b>1998</b> , 83, 7333-7338	2.5	25

27	Theory of magnetic dissipation imaging. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 1418-1420	3.4	13
26	Magnetic dissipation force microscopy. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 279-281	3.4	72
25	Quasidendritic growth of Co induced by localized reconstruction of Pt(111). <i>Surface Science</i> , <b>1995</b> , 337, 147-152	1.8	25
24	Growth of vapor-deposited cobalt films on Pt(111) studied by scanning tunneling microscopy. <i>Physical Review B</i> , <b>1994</b> , 49, 2021-2029	3.3	93
23	Can magnetic-force microscopy determine micromagnetic structures?. <i>Geophysical Journal International</i> , <b>1994</b> , 116, 502-505	2.6	4
22	Creation of liquid crystal waveguides with scanning force microscopy. <i>Science</i> , <b>1994</b> , 265, 512-4	3.3	103
21	Surface and domain structures of ferroelectric GASH crystals studied by scanning force microscopy. <i>Surface Science Letters</i> , <b>1993</b> , 285, L498-L502		3
20	Tip artifacts of microfabricated force sensors for atomic force microscopy. <i>Applied Physics Letters</i> , <b>1992</b> , 60, 2741-2743	3.4	79
19	Magnetic force microscopy of magnetic materials. <i>Ultramicroscopy</i> , <b>1992</b> , 47, 393-399	3.1	40
18	Magnetic force microscopy with batch-fabricated force sensors. <i>Journal of Applied Physics</i> , <b>1991</b> , 69, 5883-5885	3.5	38
17	Mechanical parametric amplification and thermomechanical noise squeezing. <i>Physical Review Letters</i> , <b>1991</b> , 67, 699-702	7.4	443
16	10-nm resolution by magnetic force microscopy on FeNdB. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 1437-1441	3.5	45
15	Analysis of in-plane bit structure by magnetic force microscopy. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 3462-3467	3.2	20
14	Batch fabricated sensors for magnetic force microscopy. <i>Applied Physics Letters</i> , <b>1990</b> , 57, 1820-1822	3.4	80
13	Theoretical approach to magnetic force microscopy. <i>Physical Review B</i> , <b>1989</b> , 39, 12013-12017	3.3	77
12	Investigation of hydrogenated amorphous carbon coatings for magnetic data storage media by atomic force microscopy. <i>Applied Physics Letters</i> , <b>1989</b> , 55, 1624-1626	3.4	8
11	A study of the AgBr(111) and AgBr(100) surface by means of atomic force microscopy. <i>Journal of Applied Physics</i> , <b>1989</b> , 66, 4243-4247	2.5	11
10	Atomic force microscopy for the study of tribology and adhesion. <i>Thin Solid Films</i> , <b>1989</b> , 181, 527-544	2.2	56

9	Topography and correlation to wear of hydrogenated amorphous carbon coatings: An atomic force microscopy study. <i>Wear</i> , <b>1989</b> , 135, 109-117	3.5	8
8	Physical properties of icosahedral and glassy Pd <sub>2</sub> U <sub>2</sub> Si alloys. <i>Materials Science and Engineering</i> , <b>1988</b> , 99, 357-360		6
7	Imaging and modification of polymers by scanning tunneling and atomic force microscopy. <i>Journal of Applied Physics</i> , <b>1988</b> , 64, 1178-1184	2.5	145
6	Observation and manipulation of polymers by scanning tunnelling and atomic force microscopy. <i>Journal of Microscopy</i> , <b>1988</b> , 152, 229-236	1.9	26
5	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> , <b>1988</b> , 157, 817-822	3.1	5
4	Comparative study of lithium fluoride and graphite by atomic force microscopy (AFM). <i>Journal of Microscopy</i> , <b>1988</b> , 152, 269-280	1.9	77
3	Low-energy modes in quasicrystalline and glassy Pd <sub>58.8</sub> Si <sub>20.6</sub> U <sub>20.6</sub> : A comparative study by neutron inelastic scattering. <i>Physical Review Letters</i> , <b>1987</b> , 59, 102-105	7.4	33
2	Observation of magnetic forces by the atomic force microscope. <i>Journal of Applied Physics</i> , <b>1987</b> , 62, 4293-4295	2.5	302
1	Quinones of azulene. 3. Generation and trapping of the reactive 1,4- and 1,6-quinones. <i>Journal of the American Chemical Society</i> , <b>1984</b> , 106, 4852-4856	16.4	18