

Peter Grutter

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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.

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	Mechanical parametric amplification and thermomechanical noise squeezing. <i>Physical Review Letters</i> , 1991 , 67, 699-702	7.4	443
169	Observation of magnetic forces by the atomic force microscope. <i>Journal of Applied Physics</i> , 1987 , 62, 4293-4295	2.5	302
168	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, 3225-36	3.5	283
167	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	2.9	174
166	Effect of mechanical properties of hydrogel nanoparticles on macrophage cell uptake. <i>Soft Matter</i> , 2009 , 5, 3984	3.6	169
165	Surface stress, kinetics, and structure of alkanethiol self-assembled monolayers. <i>Langmuir</i> , 2004 , 20, 7090-6	4	150
164	Imaging and modification of polymers by scanning tunneling and atomic force microscopy. <i>Journal of Applied Physics</i> , 1988 , 64, 1178-1184	2.5	145
163	Adhesion Interaction between Atomically Defined Tip and Sample. <i>Physical Review Letters</i> , 1998 , 80, 4685-4688	7.4	103
162	Creation of liquid crystal waveguides with scanning force microscopy. <i>Science</i> , 1994 , 265, 512-4	33.3	103
161	Surface relaxations, current enhancements, and absolute distances in high resolution scanning tunneling microscopy. <i>Physical Review Letters</i> , 2001 , 87, 236104	7.4	101
160	Detection of single-electron charging in an individual InAs quantum dot by noncontact atomic-force microscopy. <i>Physical Review Letters</i> , 2005 , 94, 056802	7.4	100
159	Cantilever-based sensing: the origin of surface stress and optimization strategies. <i>Nanotechnology</i> , 2010 , 21, 75501	3.4	97
158	Growth of vapor-deposited cobalt films on Pt(111) studied by scanning tunneling microscopy. <i>Physical Review B</i> , 1994 , 49, 2021-2029	3.3	93
157	Strain induced dewetting of a molecular system: bimodal growth of PTCDA on NaCl. <i>Physical Review Letters</i> , 2008 , 100, 186104	7.4	89
156	Broadband spin dynamics of the magnetic vortex state: Effect of the pulsed field direction. <i>Physical Review B</i> , 2005 , 71,	3.3	85
155	IV characteristics and differential conductance fluctuations of Au nanowires. <i>Physical Review B</i> , 2002 , 65,	3.3	84
154	Batch fabricated sensors for magnetic force microscopy. <i>Applied Physics Letters</i> , 1990 , 57, 1820-1822	3.4	80

153	Tip artifacts of microfabricated force sensors for atomic force microscopy. <i>Applied Physics Letters</i> , 1992 , 60, 2741-2743	3.4	79
152	Theoretical approach to magnetic force microscopy. <i>Physical Review B</i> , 1989 , 39, 12013-12017	3.3	77
151	Comparative study of lithium fluoride and graphite by atomic force microscopy (AFM). <i>Journal of Microscopy</i> , 1988 , 152, 269-280	1.9	77
150	Netrin-1 promotes excitatory synaptogenesis between cortical neurons by initiating synapse assembly. <i>Journal of Neuroscience</i> , 2013 , 33, 17278-89	6.6	75
149	Rapid assembly of functional presynaptic boutons triggered by adhesive contacts. <i>Journal of Neuroscience</i> , 2009 , 29, 12449-66	6.6	73
148	Quantitative surface stress measurements using a microcantilever. <i>Applied Physics Letters</i> , 2001 , 79, 551-553	3.4	73
147	Magnetic dissipation force microscopy. <i>Applied Physics Letters</i> , 1997 , 71, 279-281	3.4	72
146	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, 9496-501	11.5	67
145	Strong electromechanical coupling of an atomic force microscope cantilever to a quantum dot. <i>Physical Review Letters</i> , 2010 , 104, 017203	7.4	63
144	Microcantilever-based sensors: effect of morphology, adhesion, and cleanliness of the sensing surface on surface stress. <i>Analytical Chemistry</i> , 2007 , 79, 8136-43	7.8	60
143	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, L958-66	5.8	58
142	Atomic force microscopy reveals important differences in axonal resistance to injury. <i>Biophysical Journal</i> , 2012 , 103, 405-414	2.9	57
141	Atomic force microscopy for the study of tribology and adhesion. <i>Thin Solid Films</i> , 1989 , 181, 527-544	2.2	56
140	Plasticity, healing and shakedown in sharp-asperity nanoindentation. <i>Nature Materials</i> , 2006 , 5, 370-6	2.7	55
139	Molecular dewetting on insulators. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 423101	1.8	54
138	Probing the "dark" fraction of core-shell quantum dots by ensemble and single particle pH-dependent spectroscopy. <i>ACS Nano</i> , 2011 , 5, 9062-73	16.7	52
137	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	8.5	48
136	Determination of the atomic structure of scanning probe microscopy tungsten tips by field ion microscopy. <i>Physical Review B</i> , 2005 , 72,	3.3	47

135	10-nm resolution by magnetic force microscopy on FeNdB. <i>Journal of Applied Physics</i> , 1990 , 67, 1437-1444	15	45
134	Metallic adhesion and tunnelling at the atomic scale. <i>New Journal of Physics</i> , 2000 , 2, 29-29	2.9	44
133	Atomic force microscopy in viscous ionic liquids. <i>Langmuir</i> , 2012 , 28, 5319-22	4	43
132	A complete analysis of the laser beam deflection systems used in cantilever-based systems. <i>Ultramicroscopy</i> , 2007 , 107, 422-30	3.1	42
131	Redox-induced surface stress of polypyrrole-based actuators. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 17531-7	3.4	42
130	Magnetization reversal and configurational anisotropy of dense permalloy dot arrays. <i>Applied Physics Letters</i> , 2002 , 80, 4789-4791	3.4	42
129	Determination of the local contact potential difference of PTCDA on NaCl: a comparison of techniques. <i>Nanotechnology</i> , 2009 , 20, 264012	3.4	41
128	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	2.5	41
127	Magnetic force microscopy of magnetic materials. <i>Ultramicroscopy</i> , 1992 , 47, 393-399	3.1	40
126	Switching atomic friction by electrochemical oxidation. <i>Langmuir</i> , 2011 , 27, 2561-6	4	39
125	A common mechanism underlies the dark fraction formation and fluorescence blinking of quantum dots. <i>ACS Nano</i> , 2009 , 3, 1167-75	16.7	39
124	Nanoscale pits as templates for building a molecular device. <i>Small</i> , 2007 , 3, 818-21	11	39
123	Magnetic force microscopy with batch-fabricated force sensors. <i>Journal of Applied Physics</i> , 1991 , 69, 5883-5885	3.8	38
122	Minimum threshold for incipient plasticity in the atomic-scale nanoindentation of Au(111). <i>Physical Review Letters</i> , 2013 , 110, 135506	7.4	37
121	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	1.7	37
120	Templated growth of 3,4,9,10-perylenetetracarboxylic dianhydride molecules on a nanostructured insulator. <i>Nanotechnology</i> , 2007 , 18, 105303	3.4	36
119	Combined in situ micromechanical cantilever-based sensing and ellipsometry. <i>Review of Scientific Instruments</i> , 2003 , 74, 4902-4907	1.7	34
118	Monotonic damping in nanoscopic hydration experiments. <i>Physical Review Letters</i> , 2013 , 110, 066102	7.4	33

117	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	7.4	33
116	Detection and correction of blinking bias in image correlation transport measurements of quantum dot tagged macromolecules. <i>Biophysical Journal</i> , 2007 , 93, 1338-46	2.9	32
115	From tunneling to point contact: Correlation between forces and current. <i>Physical Review B</i> , 2005 , 71,	3.3	32
114	Cryogenic magnetic force microscope. <i>Review of Scientific Instruments</i> , 2000 , 71, 3782	1.7	31
113	Tuning the Electromechanical Properties of PEDOT:PSS Films for Stretchable Transistors And Pressure Sensors. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900191	6.4	29
112	The limit of time resolution in frequency modulation atomic force microscopy by a pump-probe approach. <i>Applied Physics Letters</i> , 2017 , 110, 053111	3.4	27
111	Systematic study of magnetic tip induced magnetization reversal of e-beam patterned permalloy particles. <i>Journal of Applied Physics</i> , 2002 , 91, 7340	2.5	27
110	Characterization of a gold coated cantilever surface for biosensing applications. <i>EPJ Techniques and Instrumentation</i> , 2015 , 2, 1	1.8	26
109	Observation and manipulation of polymers by scanning tunnelling and atomic force microscopy. <i>Journal of Microscopy</i> , 1988 , 152, 229-236	1.9	26
108	Universal Aging Mechanism for Static and Sliding Friction of Metallic Nanoparticles. <i>Physical Review Letters</i> , 2016 , 117, 025502	7.4	25
107	Magnetic dissipation force microscopy studies of magnetic materials (invited). <i>Journal of Applied Physics</i> , 1998 , 83, 7333-7338	2.5	25
106	Quasidendritic growth of Co induced by localized reconstruction of Pt(111). <i>Surface Science</i> , 1995 , 337, 147-152	1.8	25
105	Nanopore Formation via Tip-Controlled Local Breakdown Using an Atomic Force Microscope. <i>Small Methods</i> , 2019 , 3, 1900147	12.8	24
104	Conductivity of an atomically defined metallic interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 19097-102	11.5	24
103	Calibrating laser beam deflection systems for use in atomic force microscopes and cantilever sensors. <i>Applied Physics Letters</i> , 2006 , 88, 083108	3.4	24
102	Control of domain patterns in square shaped nickel rings. <i>Journal of Applied Physics</i> , 2003 , 93, 7059-7061	2.5	24
101	Measurement of Surface Photovoltage by Atomic Force Microscopy under Pulsed Illumination. <i>Physical Review Applied</i> , 2016 , 5,	4.3	23
100	Molecular resolution imaging of C ₆₀ on Au(111) by non-contact atomic force microscopy. <i>Nanotechnology</i> , 2004 , 15, S40-S43	3.4	23

99	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	11.5	23
98	Measuring Spatially Resolved Collective Ionic Transport on Lithium Battery Cathodes Using Atomic Force Microscopy. <i>Nano Letters</i> , 2017 , 17, 4489-4496	11.5	22
97	Dendritic spine viscoelasticity and soft-glassy nature: balancing dynamic remodeling with structural stability. <i>Biophysical Journal</i> , 2007 , 92, 1419-30	2.9	22
96	Momentum filtering effect in molecular wires. <i>Physical Review B</i> , 2004 , 70,	3.3	22
95	Magnetization switching in 70-nm-wide pseudo-spin-valve nanoelements. <i>Journal of Applied Physics</i> , 2003 , 93, 1132-1136	2.5	22
94	Rapid Mechanically Controlled Rewiring of Neuronal Circuits. <i>Journal of Neuroscience</i> , 2016 , 36, 979-87	6.6	21
93	Characterization of blinking dynamics in quantum dot ensembles using image correlation spectroscopy. <i>Journal of Applied Physics</i> , 2006 , 99, 064503	2.5	21
92	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, 2324-8	11.5	20
91	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	1.7	20
90	Spatially resolved observation of domain-wall propagation in a submicron ferromagnetic NOT-gate. <i>Applied Physics Letters</i> , 2005 , 87, 062503	3.4	20
89	Analysis of in-plane bit structure by magnetic force microscopy. <i>Journal of Applied Physics</i> , 1990 , 67, 3462-3467	2.0	20
88	Quantum state readout of individual quantum dots by electrostatic force detection. <i>Nanotechnology</i> , 2017 , 28, 064001	3.4	19
87	Dendritic Polyglycerol Sulfates in the Prevention of Synaptic Loss and Mechanism of Action on Glia. <i>ACS Chemical Neuroscience</i> , 2018 , 9, 260-271	5.7	19
86	Excited-state spectroscopy on an individual quantum dot using atomic force microscopy. <i>Nano Letters</i> , 2012 , 12, 709-13	11.5	19
85	DNA-protein noncovalent cross-linking: ruthenium dipyrrophenazine biotin complex for the assembly of proteins and gold nanoparticles on DNA templates. <i>ChemBioChem</i> , 2007 , 8, 804-12	3.8	19
84	Kelvin Probe Force Microscopy by Dissipative Electrostatic Force Modulation. <i>Physical Review Applied</i> , 2015 , 4,	4.3	18
83	Room-temperature single-electron charging detected by electrostatic force microscopy. <i>ACS Nano</i> , 2013 , 7, 4683-90	16.7	18
82	Relating the Functional Properties of an Organic Semiconductor to Molecular Structure by nc-AFM. <i>Advanced Materials</i> , 2009 , 21, 2029-2033	24	18

81	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	16.4	18
80	Stochastic noise in atomic force microscopy. <i>Physical Review E</i> , 2012 , 86, 031104	2.4	17
79	Imaging, Manipulation, and Spectroscopic Measurements of Nanomagnets by Magnetic Force Microscopy. <i>MRS Bulletin</i> , 2004 , 29, 457-462	3.2	17
78	Estimating the magnetic penetration depth using constant-height magnetic force microscopy images of vortices. <i>New Journal of Physics</i> , 2001 , 3, 24-24	2.9	17
77	Piezoresistive torque magnetometry below 1 K. <i>Applied Physics Letters</i> , 1999 , 74, 451-453	3.4	17
76	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	4.6	17
75	Implementation of atomically defined field ion microscopy tips in scanning probe microscopy. <i>Nanotechnology</i> , 2012 , 23, 335702	3.4	16
74	An electrochemically controlled microcantilever biosensor. <i>Langmuir</i> , 2013 , 29, 9951-7	4	16
73	Low temperature electrostatic force microscopy of a deep two-dimensional electron gas using a quartz tuning fork. <i>Applied Physics Letters</i> , 2010 , 97, 143107	3.4	16
72	Use of an electron-beam evaporator for the creation of nanostructured pits in an insulating surface. <i>Applied Physics Letters</i> , 2006 , 88, 233121	3.4	16
71	Controlled deposition of gold nanodots using non-contact atomic force microscopy. <i>Nanotechnology</i> , 2005 , 16, 1083-1088	3.4	16
70	Local modification of magnetic properties by an electron beam. <i>Applied Physics Letters</i> , 1998 , 73, 3598-3600	3.4	16
69	Magnetic force microscopy studies of patterned magnetic structures. <i>IEEE Transactions on Magnetism</i> , 2003 , 39, 3420-3425	2	15
68	Flux lattice imaging of a patterned niobium thin film. <i>Journal of Applied Physics</i> , 2001 , 89, 6787-6789	2.5	15
67	Theory of magnetoelastic dissipation due to domain wall width oscillation. <i>Journal of Applied Physics</i> , 1998 , 83, 5922-5926	2.5	15
66	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	3	14
65	Tailoring the Morphology and Dewetting of an Organic Thin Film. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 217-224	3.8	14
64	Force-gradient sensitive Kelvin probe force microscopy by dissipative electrostatic force modulation. <i>Applied Physics Letters</i> , 2017 , 110, 163103	3.4	13

63	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	11	13
62	Theory of magnetic dissipation imaging. <i>Applied Physics Letters</i> , 1997 , 71, 1418-1420	3.4	13
61	Metallic adhesion forces and tunneling between atomically defined tip and sample. <i>Applied Surface Science</i> , 2000 , 157, 274-279	6.7	13
60	Indentation-formed nanocontacts: an atomic-scale perspective. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 8201-22	3.6	12
59	Large dynamic range digital nanodot gradients of biomolecules made by low-cost nanocontact printing for cell haptotaxis. <i>Small</i> , 2013 , 9, 3308-13	11	12
58	Magnetic imaging and dissipation force microscopy of vortices on superconducting Nb films. <i>Applied Surface Science</i> , 2002 , 188, 416-420	6.7	11
57	Direct observation of magnetostatic coupling of chain arrays of magnetic disks. <i>IEEE Transactions on Magnetics</i> , 2003 , 39, 2744-2746	2	11
56	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	2.5	11
55	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	6.7	10
54	Dynamics of presynaptic protein recruitment induced by local presentation of artificial adhesive contacts. <i>Developmental Neurobiology</i> , 2013 , 73, 98-106	3.2	10
53	High-resolution investigation of metal nanoparticle growth on an insulating surface. <i>Physical Review B</i> , 2009 , 80,	3.3	10
52	Silicon nanostencils with integrated support structures. <i>Microelectronic Engineering</i> , 2010 , 87, 652-657	2.5	10
51	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	1.7	10
50	The Effect of Photoinduced Surface Oxygen Vacancies on the Charge Carrier Dynamics in TiO Films. <i>Nano Letters</i> , 2021 , 21, 8348-8354	11.5	10
49	Fully Quantized Electron Transfer Observed in a Single Redox Molecule at a Metal Interface. <i>Nano Letters</i> , 2019 , 19, 6104-6108	11.5	9
48	Large tunnel magnetoresistance ratio in Fe/O/NaCl/O/Fe. <i>Journal of Applied Physics</i> , 2015 , 118, 093902	2.5	9
47	Improved atomic force microscopy cantilever performance by partial reflective coating. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 1450-6	3	9
46	Calibration of the oscillation amplitude of electrically excited scanning probe microscopy sensors. <i>Review of Scientific Instruments</i> , 2019 , 90, 013703	1.7	8

45	FIM tips in SPM: Apex orientation and temperature considerations on atom transfer and diffusion. <i>Applied Surface Science</i> , 2014 , 305, 124-132	6.7	8
44	Spatially resolved low-frequency noise measured by atomic force microscopy. <i>Physical Review B</i> , 2009 , 79,	3.3	8
43	Layer-by-layer growth of sodium chloride overlayers on an Fe(001)-p(1 × 1)O surface. <i>Nanotechnology</i> , 2012 , 23, 505602	3.4	8
42	Investigation of hydrogenated amorphous carbon coatings for magnetic data storage media by atomic force microscopy. <i>Applied Physics Letters</i> , 1989 , 55, 1624-1626	3.4	8
41	Topography and correlation to wear of hydrogenated amorphous carbon coatings: An atomic force microscopy study. <i>Wear</i> , 1989 , 135, 109-117	3.5	8
40	Stochastic simulation of tip-sample interactions in atomic force microscopy. <i>Applied Physics Letters</i> , 2012 , 101, 113105	3.4	7
39	The role of charge-induced defects in the growth of gold on an alkali halide surface. <i>Surface Science</i> , 2008 , 602, L21-L24	1.8	7
38	Local membrane deformation and micro-injury lead to qualitatively different responses in osteoblasts. <i>F1000Research</i> , 2014 , 3, 162	3.6	7
37	High Osmotic Power Generation via Nanopore Arrays in Hybrid Hexagonal Boron Nitride/Silicon Nitride Membranes. <i>Nano Letters</i> , 2021 , 21, 4152-4159	11.5	7
36	Transient adhesion and conductance phenomena in initial nanoscale mechanical contacts between dissimilar metals. <i>Nanotechnology</i> , 2013 , 24, 475704	3.4	6
35	Scanning gate imaging of two coupled quantum dots in single-walled carbon nanotubes. <i>Nanotechnology</i> , 2014 , 25, 495703	3.4	6
34	Note: electrochemical etching of sharp iridium tips. <i>Review of Scientific Instruments</i> , 2011 , 82, 116105	1.7	6
33	High Q optical fiber tips for NC-AFM in liquid. <i>Nanotechnology</i> , 2009 , 20, 264018	3.4	6
32	Comment on Temperature dependence of the energy dissipation in dynamic force microscopy <i>Nanotechnology</i> , 2008 , 19, 398001	3.4	6
31	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	2.5	6
30	Physical properties of icosahedral and glassy Pd ₂ U ₃ Si alloys. <i>Materials Science and Engineering</i> , 1988 , 99, 357-360		6
29	Rewiring Neuronal Circuits: A New Method for Fast Neurite Extension and Functional Neuronal Connection. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	5
28	Magnetic force microscopy and x-ray scattering study of 70 × 50 nm ² pseudo-spin-valve nanomagnets. <i>Journal of Applied Physics</i> , 2003 , 93, 7927-7929	2.5	5

27	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	3.1	5
26	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,	8.8	5
25	Adsorption of PTCDA and C ₆₀ on KBr(001): electrostatic interaction versus electronic hybridization. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 11008-16	3.6	5
24	Relating Franck-Condon blockade to redox chemistry in the single-particle picture. <i>Journal of Chemical Physics</i> , 2018 , 149, 104109	3.9	5
23	Effect of using stencil masks made by focused ion beam milling on permalloy (Ni ₈₁ Fe ₁₉) nanostructures. <i>Nanotechnology</i> , 2013 , 24, 115301	3.4	4
22	Field deposition from metallic tips onto insulating substrates. <i>Nanotechnology</i> , 2011 , 22, 465301	3.4	4
21	Can magnetic-force microscopy determine micromagnetic structures?. <i>Geophysical Journal International</i> , 1994 , 116, 502-505	2.6	4
20	Response of mechanically-created neurites to extension. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 98, 121-130	4.1	3
19	Amplitude Dependence of Resonance Frequency and its Consequences for Scanning Probe Microscopy. <i>Sensors</i> , 2019 , 19,	3.8	3
18	Surface and domain structures of ferroelectric GASH crystals studied by scanning force microscopy. <i>Surface Science Letters</i> , 1993 , 285, L498-L502		3
17	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	11.5	3
16	Reversing adhesion with light: a general method for functionalized bead release from cells. <i>Biomaterials Science</i> , 2016 , 4, 1193-6	7.4	3
15	Selective in situ potential-assisted SAM formation on multi electrode arrays. <i>Nanotechnology</i> , 2016 , 27, 455501	3.4	3
14	An apparatus based on an atomic force microscope for implementing tip-controlled local breakdown. <i>Review of Scientific Instruments</i> , 2019 , 90, 123703	1.7	3
13	Eliminating the effect of acoustic noise on cantilever spring constant calibration. <i>Applied Physics Letters</i> , 2018 , 113, 233105	3.4	3
12	Reorganization takes energy. <i>Nature Nanotechnology</i> , 2018 , 13, 360-361	28.7	2
11	Data analysis of nonlinear systems: Application to Au nanowires. <i>Review of Scientific Instruments</i> , 2002 , 73, 3324-3328	1.7	2
10	Properties of amorphous Al ₇₅ B alloy coating for scanning near-field optical microscopy tips. <i>Journal of Applied Physics</i> , 2002 , 92, 6895-6899	2.5	2

9	Optical excitation of atomic force microscopy cantilever for accurate spectroscopic measurements. <i>EPJ Techniques and Instrumentation</i> , 2020 , 7,	1.8	2
8	Field Ion Microscopy for the Characterization of Scanning Probes 2015 , 159-198		2
7	Ergodic and Nonergodic Dynamics of Oxygen Vacancy Migration at the Nanoscale in Inorganic Perovskites. <i>Nano Letters</i> , 2020 , 20, 7530-7535	11.5	2
6	Dissipation Modulated Kelvin Probe Force Microscopy Method. <i>Springer Series in Surface Sciences</i> , 2018 , 23-47	0.4	1
5	Electrostatic Force Microscopy Characterization of Low Dimensional Systems. <i>Springer Series in Surface Sciences</i> , 2012 , 175-199	0.4	1
4	Quantifying bio-filament morphology below the diffraction limit of an optical microscope using out-of-focus images. <i>Applied Optics</i> , 2020 , 59, 2914-2923	1.7	1
3	Charge Carrier Inversion in a Doped Thin Film Organic Semiconductor Island. <i>ACS Nano</i> , 2021 , 15, 10377-10383	10.383	0
2	Sensitivity measurement of a cantilever-based surface stress sensor. <i>Journal of Chemical Physics</i> , 2016 , 145, 154704	3.9	0
1	Electrostatic Force Microscopy: Measuring Ion Mobility, Non-linear Optical Signals and Achieving Ultimate Time Resolution. <i>Microscopy and Microanalysis</i> , 2020 , 26, 2984-2987	0.5	