Peter Grutter

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8004200/publications.pdf

Version: 2024-02-01

174 papers	7,102 citations	57758 44 h-index	71685 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. Physical Review Letters, 1991, 67, 699-702.	7.8	529
2	The Mitochondrial Transcription Factor TFAM Coordinates the Assembly of Multiple DNA Molecules into Nucleoid-like Structures. Molecular Biology of the Cell, 2007, 18, 3225-3236.	2.1	340
3	Observation of magnetic forces by the atomic force microscope. Journal of Applied Physics, 1987, 62, 4293-4295.	2.5	334
4	Effect of mechanical properties of hydrogel nanoparticles on macrophage cell uptake. Soft Matter, 2009, 5, 3984.	2.7	211
5	Probing the Viscoelastic Behavior of Cultured Airway Smooth Muscle Cells with Atomic Force Microscopy: Stiffening Induced by Contractile Agonist. Biophysical Journal, 2005, 88, 2994-3007.	0.5	194
6	Surface Stress, Kinetics, and Structure of Alkanethiol Self-Assembled Monolayers. Langmuir, 2004, 20, 7090-7096.	3.5	167
7	Imaging and modification of polymers by scanning tunneling and atomic force microscopy. Journal of Applied Physics, 1988, 64, 1178-1184.	2.5	164
8	Adhesion Interaction between Atomically Defined Tip and Sample. Physical Review Letters, 1998, 80, 4685-4688.	7.8	145
9	Surface Relaxations, Current Enhancements, and Absolute Distances in High Resolution Scanning Tunneling Microscopy. Physical Review Letters, 2001, 87, 236104.	7.8	134
10	Cantilever-based sensing: the origin of surface stress and optimization strategies. Nanotechnology, 2010, 21, 075501.	2.6	117
11	Creation of Liquid Crystal Waveguides with Scanning Force Microscopy. Science, 1994, 265, 512-514.	12.6	115
12	Detection of Single-Electron Charging in an Individual InAs Quantum Dot by Noncontact Atomic-Force Microscopy. Physical Review Letters, 2005, 94, 056802.	7.8	109
13	Netrin-1 Promotes Excitatory Synaptogenesis between Cortical Neurons by Initiating Synapse Assembly. Journal of Neuroscience, 2013, 33, 17278-17289.	3.6	107
14	Growth of vapor-deposited cobalt films on Pt(111) studied by scanning tunneling microscopy. Physical Review B, 1994, 49, 2021-2029.	3.2	98
15	Strain Induced Dewetting of a Molecular System: Bimodal Growth of PTCDA on NaCl. Physical Review Letters, 2008, 100, 186104.	7.8	97
16	Batch fabricated sensors for magnetic force microscopy. Applied Physics Letters, 1990, 57, 1820-1822.	3.3	95
17	Tip artifacts of microfabricated force sensors for atomic force microscopy. Applied Physics Letters, 1992, 60, 2741-2743.	3.3	91
18	Broadband spin dynamics of the magnetic vortex state: Effect of the pulsed field direction. Physical Review B, 2005, 71, .	3.2	89

#	Article	IF	Citations
19	Iâˆ’Vcharacteristics and differential conductance fluctuations of Au nanowires. Physical Review B, 2002, 65, .	3.2	88
20	Comparative study of lithium fluoride and graphite by atomic force microscopy (AFM). Journal of Microscopy, 1988, 152, 269-280.	1.8	87
21	Quantitative surface stress measurements using a microcantilever. Applied Physics Letters, 2001, 79, 551-553.	3.3	86
22	Theoretical approach to magnetic force microscopy. Physical Review B, 1989, 39, 12013-12017.	3.2	85
23	Rapid Assembly of Functional Presynaptic Boutons Triggered by Adhesive Contacts. Journal of Neuroscience, 2009, 29, 12449-12466.	3.6	80
24	Magnetic dissipation force microscopy. Applied Physics Letters, 1997, 71, 279-281.	3.3	79
25	Metallic adhesion and tunnelling at the atomic scale. New Journal of Physics, 2000, 2, 29-29.	2.9	75
26	Energy levels of few-electron quantum dots imaged and characterized by atomic force microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9496-9501.	7.1	75
27	Strong Electromechanical Coupling of an Atomic Force Microscope Cantilever to a Quantum Dot. Physical Review Letters, 2010, 104, 017203.	7.8	72
28	Atomic Force Microscopy Reveals Important Differences in Axonal Resistance to Injury. Biophysical Journal, 2012, 103, 405-414.	0.5	72
29	Molecular dewetting on insulators. Journal of Physics Condensed Matter, 2009, 21, 423101.	1.8	65
30	Atomic force microscopy for the study of tribology and adhesion. Thin Solid Films, 1989, 181, 527-544.	1.8	64
31	Microcantilever-Based Sensors:â€‰Effect of Morphology, Adhesion, and Cleanliness of the Sensing Surface on Surface Stress. Analytical Chemistry, 2007, 79, 8136-8143.	6.5	64
32	Interleukin-13 inhibits proliferation and enhances contractility of human airway smooth muscle cells without change in contractile phenotype. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2011, 300, L958-L966.	2.9	63
33	Probing the â€œDarkâ€•Fraction of Coreâ€“Shell Quantum Dots by Ensemble and Single Particle pH-Dependent Spectroscopy. ACS Nano, 2011, 5, 9062-9073.	14.6	62
34	Plasticity, healing and shakedown in sharp-asperity nanoindentation. Nature Materials, 2006, 5, 370-376.	27.5	59
35	Tuning the Electromechanical Properties of PEDOT:PSS Films for Stretchable Transistors And Pressure Sensors. Advanced Electronic Materials, 2019, 5, 1900191.	5.1	57
36	10â€nm resolution by magnetic force microscopy on FeNdB. Journal of Applied Physics, 1990, 67, 1437-1441.	2.5	53

#	Article	IF	Citations
37	A differential microcantilever-based system for measuring surface stress changes induced by electrochemical reactions. Sensors and Actuators B: Chemical, 2005, 107, 233-241.	7.8	53
38	A complete analysis of the laser beam deflection systems used in cantilever-based systems. Ultramicroscopy, 2007, 107, 422-430.	1.9	53
39	Determination of the atomic structure of scanning probe microscopy tungsten tips by field ion microscopy. Physical Review B, 2005, 72, .	3.2	52
40	Magnetization reversal and configurational anisotropy of dense permalloy dot arrays. Applied Physics Letters, 2002, 80, 4789-4791.	3.3	49
41	Construction of hysteresis loops of single domain elements and coupled permalloy ring arrays by magnetic force microscopy. Journal of Applied Physics, 2003, 93, 8540-8542.	2.5	48
42	Determination of the local contact potential difference of PTCDA on NaCl: a comparison of techniques. Nanotechnology, 2009, 20, 264012.	2.6	48
43	Magnetic force microscopy of magnetic materials. Ultramicroscopy, 1992, 47, 393-399.	1.9	46
44	A Common Mechanism Underlies the Dark Fraction Formation and Fluorescence Blinking of Quantum Dots. ACS Nano, 2009, 3, 1167-1175.	14.6	45
45	Switching Atomic Friction by Electrochemical Oxidation. Langmuir, 2011, 27, 2561-2566.	3.5	45
46	Atomic Force Microscopy in Viscous Ionic Liquids. Langmuir, 2012, 28, 5319-5322.	3.5	45
47	Redox-Induced Surface Stress of Polypyrrole-Based Actuators. Journal of Physical Chemistry B, 2005, 109, 17531-17537.	2.6	44
48	Magnetic force microscopy with batchâ€fabricated force sensors. Journal of Applied Physics, 1991, 69, 5883-5885.	2.5	43
49	Metallic adhesion forces and tunneling between atomically defined tip and sample. Applied Surface Science, 2000, 157, 274-279.	6.1	42
50	Nanoscale Pits as Templates for Building a Molecular Device. Small, 2007, 3, 818-821.	10.0	42
51	Minimum Threshold for Incipient Plasticity in the Atomic-Scale Nanoindentation of Au(111). Physical Review Letters, 2013, 110, 135506.	7.8	42
52	High Osmotic Power Generation via Nanopore Arrays in Hybrid Hexagonal Boron Nitride/Silicon Nitride Membranes. Nano Letters, 2021, 21, 4152-4159.	9.1	42
53	Retrofitting an atomic force microscope with photothermal excitation for a clean cantilever response in low Q environments. Review of Scientific Instruments, 2012, 83, 053703.	1.3	39
54	Characterization of a gold coated cantilever surface for biosensing applications. EPJ Techniques and Instrumentation, 2015, 2, 1.	1.3	38

#	Article	IF	Citations
55	Templated growth of 3,4,9,10-perylenetetracarboxylic dianhydride molecules on a nanostructured insulator. Nanotechnology, 2007, 18, 105303.	2.6	37
56	Monotonic Damping in Nanoscopic Hydration Experiments. Physical Review Letters, 2013, 110, 066102.	7.8	37
57	The limit of time resolution in frequency modulation atomic force microscopy by a pump-probe approach. Applied Physics Letters, 2017, 110, .	3.3	37
58	Nanopore Formation via Tipâ€Controlled Local Breakdown Using an Atomic Force Microscope. Small Methods, 2019, 3, 1900147.	8.6	36
59	Combined in situ micromechanical cantilever-based sensing and ellipsometry. Review of Scientific Instruments, 2003, 74, 4902-4907.	1.3	35
60	Low-energy modes in quasicrystalline and glassyPd58.8Si20.6U20.6: A comparative study by neutron inelastic scattering. Physical Review Letters, 1987, 59, 102-105.	7.8	33
61	Cryogenic magnetic force microscope. Review of Scientific Instruments, 2000, 71, 3782.	1.3	33
62	From tunneling to point contact: Correlation between forces and current. Physical Review B, 2005, 71, .	3.2	32
63	Detection and Correction of Blinking Bias in Image Correlation Transport Measurements of Quantum Dot Tagged Macromolecules. Biophysical Journal, 2007, 93, 1338-1346.	0.5	32
64	Observation and manipulation of polymers by scanning tunnelling and atomic force microscopy. Journal of Microscopy, 1988, 152, 229-236.	1.8	31
65	Self-Assembled Masks for the Transfer of Nanometer-Scale Patterns into Surfaces:â€‰ Characterization by AFM and LFM. Nano Letters, 2002, 2, 131-135.	9.1	31
66	Measuring Spatially Resolved Collective Ionic Transport on Lithium Battery Cathodes Using Atomic Force Microscopy. Nano Letters, 2017, 17, 4489-4496.	9.1	31
67	Measurement of Surface Photovoltage by Atomic Force Microscopy under Pulsed Illumination. Physical Review Applied, 2016, 5, .	3.8	30
68	Rapid Mechanically Controlled Rewiring of Neuronal Circuits. Journal of Neuroscience, 2016, 36, 979-987.	3.6	30
69	Magnetic dissipation force microscopy studies of magnetic materials (invited). Journal of Applied Physics, 1998, 83, 7333-7338.	2.5	29
70	Systematic study of magnetic tip induced magnetization reversal of e-beam patterned permalloy particles. Journal of Applied Physics, 2002, 91, 7340.	2.5	29
71	The Effect of Photoinduced Surface Oxygen Vacancies on the Charge Carrier Dynamics in TiO₂ Films. Nano Letters, 2021, 21, 8348-8354.	9.1	29
72	Quasidendritic growth of Co induced by localized reconstruction of Pt(111). Surface Science, 1995, 337, 147-152.	1.9	28

#	Article	IF	Citations
73	Calibrating laser beam deflection systems for use in atomic force microscopes and cantilever sensors. Applied Physics Letters, 2006, 88, 083108.	3.3	28
74	Dendritic Polyglycerol Sulfates in the Prevention of Synaptic Loss and Mechanism of Action on Glia. ACS Chemical Neuroscience, 2018, 9, 260-271.	3.5	28
75	Modeling Interactions among Individual P2 Receptors to Explain Complex Response Patterns over a Wide Range of ATP Concentrations. Frontiers in Physiology, 2016, 7, 294.	2.8	27
76	Universal Aging Mechanism for Static and Sliding Friction of Metallic Nanoparticles. Physical Review Letters, 2016, 117, 025502.	7.8	27
77	Control of domain patterns in square shaped nickel rings. Journal of Applied Physics, 2003, 93, 7059-7061.	2.5	26
78	Dendritic Spine Viscoelasticity and Soft-Glassy Nature: Balancing Dynamic Remodeling with Structural Stability. Biophysical Journal, 2007, 92, 1419-1430.	0.5	26
79	Quantum state readout of individual quantum dots by electrostatic force detection. Nanotechnology, 2017, 28, 064001.	2.6	26
80	Analysis of inâ€plane bit structure by magnetic force microscopy. Journal of Applied Physics, 1990, 67, 3462-3467.	2.5	25
81	Spatially resolved observation of domain-wall propagation in a submicron ferromagnetic NOT-gate. Applied Physics Letters, 2005, 87, 062503.	3.3	25
82	Conductivity of an atomically defined metallic interface. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19097-19102.	7.1	25
83	Magnetization switching in 70-nm-wide pseudo-spin-valve nanoelements. Journal of Applied Physics, 2003, 93, 1132-1136.	2.5	24
84	Molecular resolution imaging of C60on Au(111) by non-contact atomic force microscopy. Nanotechnology, 2004, 15, S40-S43.	2.6	24
85	Relating the Functional Properties of an Organic Semiconductor to Molecular Structure by ncâ€AFM. Advanced Materials, 2009, 21, 2029-2033.	21.0	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. Review of Scientific Instruments, 2011, 82, 113903.	1.3	24
87	Characterization of blinking dynamics in quantum dot ensembles using image correlation spectroscopy. Journal of Applied Physics, 2006, 99, 064503.	2.5	23
88	Revealing Energy Level Structure of Individual Quantum Dots by Tunneling Rate Measured by Single-Electron Sensitive Electrostatic Force Spectroscopy. Nano Letters, 2015, 15, 2324-2328.	9.1	23
89	Review of time-resolved non-contact electrostatic force microscopy techniques with applications to ionic transport measurements. Beilstein Journal of Nanotechnology, 2019, 10, 617-633.	2.8	23
90	Quinones of azulene. 3. Generation and trapping of the reactive 1,4- and 1,6-quinones. Journal of the American Chemical Society, 1984, 106, 4852-4856.	13.7	22

#	Article	IF	Citations
91	Momentum filtering effect in molecular wires. Physical Review B, 2004, 70, .	3.2	22
92	Controlled deposition of gold nanodots using non-contact atomic force microscopy. Nanotechnology, 2005, 16, 1083-1088.	2.6	22
93	Room-Temperature Single-Electron Charging Detected by Electrostatic Force Microscopy. ACS Nano, 2013, 7, 4683-4690.	14.6	22
94	Imaging, Manipulation, and Spectroscopic Measurements of Nanomagnets by Magnetic Force Microscopy. MRS Bulletin, 2004, 29, 457-462.	3.5	21
95	Excited-State Spectroscopy on an Individual Quantum Dot Using Atomic Force Microscopy. Nano Letters, 2012, 12, 709-713.	9.1	21
96	Kelvin Probe Force Microscopy by Dissipative Electrostatic Force Modulation. Physical Review Applied, 2015, 4, .	3.8	21
97	Estimating the magnetic penetration depth using constant-height magnetic force microscopy images of vortices. New Journal of Physics, 2001, 3, 24-24.	2.9	20
98	DNAâ€“Protein Noncovalent Cross-Linking: Ruthenium Dipyridophenazine Biotin Complex for the Assembly of Proteins and Gold Nanoparticles on DNA Templates. ChemBioChem, 2007, 8, 804-812.	2.6	20
99	Local modification of magnetic properties by an electron beam. Applied Physics Letters, 1998, 73, 3598-3600.	3.3	18
100	Stochastic noise in atomic force microscopy. Physical Review E, 2012, 86, 031104.	2.1	18
101	Piezoresistive torque magnetometry below 1 K. Applied Physics Letters, 1999, 74, 451-453.	3.3	17
102	Use of an electron-beam evaporator for the creation of nanostructured pits in an insulating surface. Applied Physics Letters, 2006, 88, 233121.	3.3	17
103	Theory of magnetoelastic dissipation due to domain wall width oscillation. Journal of Applied Physics, 1998, 83, 5922-5926.	2.5	16
104	Magnetic force microscopy studies of patterned magnetic structures. IEEE Transactions on Magnetics, 2003, 39, 3420-3425.	2.1	16
105	Low temperature electrostatic force microscopy of a deep two-dimensional electron gas using a quartz tuning fork. Applied Physics Letters, 2010, 97, .	3.3	16
106	Tailoring the Morphology and Dewetting of an Organic Thin Film. Journal of Physical Chemistry C, 2011, 115, 217-224.	3.1	16
107	Implementation of atomically defined field ion microscopy tips in scanning probe microscopy. Nanotechnology, 2012, 23, 335702.	2.6	16
108	An Electrochemically Controlled Microcantilever Biosensor. Langmuir, 2013, 29, 9951-9957.	3.5	16

#	Article	IF	Citations
109	Flux lattice imaging of a patterned niobium thin film. Journal of Applied Physics, 2001, 89, 6787-6789.	2.5	15
110	Large Dynamic Range Digital Nanodot Gradients of Biomolecules Made by Lowâ€Cost Nanocontact Printing for Cell Haptotaxis. Small, 2013, 9, 3308-3313.	10.0	15
111	Indentation-formed nanocontacts: an atomic-scale perspective. Physical Chemistry Chemical Physics, 2014, 16, 8201-8222.	2.8	15
112	Force-gradient sensitive Kelvin probe force microscopy by dissipative electrostatic force modulation. Applied Physics Letters, 2017, 110, .	3.3	15
113	Theory of magnetic dissipation imaging. Applied Physics Letters, 1997, 71, 1418-1420.	3.3	14
114	Nanodot Gradients: Large Dynamic Range Digital Nanodot Gradients of Biomolecules Made by Lowâ€Cost Nanocontact Printing for Cell Haptotaxis (Small 19/2013). Small, 2013, 9, 3186-3186.	10.0	14
115	Fully Quantized Electron Transfer Observed in a Single Redox Molecule at a Metal Interface. Nano Letters, 2019, 19, 6104-6108.	9.1	14
116	Layer-by-layer growth of sodium chloride overlayers on an Fe(001)-p(1 Ã— 1)O surface. Nanotechnology, 2012, 23, 505602.	2.6	13
117	Dynamics of presynaptic protein recruitment induced by local presentation of artificial adhesive contacts. Developmental Neurobiology, 2013, 73, 98-106.	3.0	13
118	Magnetic imaging and dissipation force microscopy of vortices on superconducting Nb films. Applied Surface Science, 2002, 188, 416-420.	6.1	12
119	A study of the AgBr(111) and AgBr(100) surface by means of atomic force microscopy. Journal of Applied Physics, 1989, 66, 4243-4247.	2.5	11
120	Direct observation of magnetostatic coupling of chain arrays of magnetic disks. IEEE Transactions on Magnetics, 2003, 39, 2744-2746.	2.1	11
121	High-resolution investigation of metal nanoparticle growth on an insulating surface. Physical Review B, 2009, 80, .	3.2	11
122	Improved atomic force microscopy cantilever performance by partial reflective coating. Beilstein Journal of Nanotechnology, 2015, 6, 1450-1456.	2.8	11
123	Ergodic and Nonergodic Dynamics of Oxygen Vacancy Migration at the Nanoscale in Inorganic Perovskites. Nano Letters, 2020, 20, 7530-7535.	9.1	11
124	High-aspect ratio metal tips attached to atomic force microscopy cantilevers with controlled angle, length, and radius for electrostatic force microscopy. Review of Scientific Instruments, 2007, 78, 113706.	1.3	10
125	Silicon nanostencils with integrated support structures. Microelectronic Engineering, 2010, 87, 652-657.	2.4	10
126	Reactive growth of MgO overlayers on Fe(001) surfaces studied by low-energy electron diffraction and atomic force microscopy. Applied Surface Science, 2013, 273, 247-252.	6.1	10

#	Article	IF	Citations
127	Large tunnel magnetoresistance ratio in Fe/O/NaCl/O/Fe. Journal of Applied Physics, 2015, 118, 093902.	2.5	10
128	Direct imaging, three-dimensional interaction spectroscopy, and friction anisotropy of atomic-scale ripples on MoS2. Npj 2D Materials and Applications, 2020, 4, .	7.9	10
129	How high is a MoSe₂ monolayer?. Nanotechnology, 2022, 33, 125706.	2.6	10
130	Investigation of hydrogenated amorphous carbon coatings for magnetic data storage media by atomic force microscopy. Applied Physics Letters, 1989, 55, 1624-1626.	3.3	9
131	Topography and correlation to wear of hydrogenated amorphous carbon coatings: An atomic force microscopy study. Wear, 1989, 135, 109-117.	3.1	9
132	HighQoptical fiber tips for NC-AFM in liquid. Nanotechnology, 2009, 20, 264018.	2.6	9
133	FIM tips in SPM: Apex orientation and temperature considerations on atom transfer and diffusion. Applied Surface Science, 2014, 305, 124-132.	6.1	9
134	Calibration of the oscillation amplitude of electrically excited scanning probe microscopy sensors. Review of Scientific Instruments, 2019, 90, 013703.	1.3	9
135	Spatially resolved low-frequency noise measured by atomic force microscopy. Physical Review B, 2009, 79, .	3.2	8
136	Local membrane deformation and micro-injury lead to qualitatively different responses in osteoblasts. F1000Research, 2014, 3, 162.	1.6	8
137	Surface and domain structures of ferroelectric GASH crystals studied by scanning force microscopy. Surface Science Letters, 1993, 285, L498-L502.	0.1	7
138	The role of charge-induced defects in the growth of gold on an alkali halide surface. Surface Science, 2008, 602, L21-L24.	1.9	7
139	Note: Electrochemical etching of sharp iridium tips. Review of Scientific Instruments, 2011, 82, 116105.	1.3	7
140	Stochastic simulation of tip-sample interactions in atomic force microscopy. Applied Physics Letters, 2012, 101, 113105.	3.3	7
141	Eliminating the effect of acoustic noise on cantilever spring constant calibration. Applied Physics Letters, 2018, 113, .	3.3	7
142	Nanoscale force sensing of an ultrafast nonlinear optical response. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19773-19779.	7.1	7
143	Physical properties of icosahedral and glassy Pdî—¸Uî—¸Si alloys. Materials Science and Engineering, 1988, 99, 357-360.	0.1	6
144	Can magnetic-force microscopy determine micromagnetic structures?. Geophysical Journal International, 1994, 116, 502-505.	2.4	6

#	Article	IF	Citations
145	Determination of T[sub c], vortex creation and vortex imaging of a superconducting Nb film using low-temperature magnetic force microscopy. Journal of Applied Physics, 2002, 91, 8840.	2.5	6
146	Comment on â€˜Temperature dependence of the energy dissipation in dynamic force microscopyâ€™. Nanotechnology, 2008, 19, 398001.	2.6	6
147	Field deposition from metallic tips onto insulating substrates. Nanotechnology, 2011, 22, 465301.	2.6	6
148	Transient adhesion and conductance phenomena in initial nanoscale mechanical contacts between dissimilar metals. Nanotechnology, 2013, 24, 475704.	2.6	6
149	Scanning gate imaging of two coupled quantum dots in single-walled carbon nanotubes. Nanotechnology, 2014, 25, 495703.	2.6	6
150	Selectivein situpotential-assisted SAM formation on multi electrode arrays. Nanotechnology, 2016, 27, 455501.	2.6	6
151	Relating Franck-Condon blockade to redox chemistry in the single-particle picture. Journal of Chemical Physics, 2018, 149, 104109.	3.0	6
152	An apparatus based on an atomic force microscope for implementing tip-controlled local breakdown. Review of Scientific Instruments, 2019, 90, 123703.	1.3	6
153	Charge Carrier Inversion in a Doped Thin Film Organic Semiconductor Island. ACS Nano, 2021, 15, 10377-10383.	14.6	6
154	Vibrational Density of States of Quasicrystalline, Glassy and Polycrystalline Pd Si U Measured at 296 K and at 220 K*. Zeitschrift Fur Physikalische Chemie, 1988, 157, 817-822.	2.8	5
155	Magnetic force microscopy and x-ray scattering study of 70Ã—550â€‰nm2 pseudo-spin-valve nanomagnets. Journal of Applied Physics, 2003, 93, 7927-7929.	2.5	5
156	Seeing the charge within. Nature Nanotechnology, 2012, 7, 210-211.	31.5	5
157	Effect of using stencil masks made by focused ion beam milling on permalloy (Ni₈₁Fe₁₉) nanostructures. Nanotechnology, 2013, 24, 115301.	2.6	5
158	Adsorption of PTCDA and C₆₀ on KBr(001): electrostatic interaction versus electronic hybridization. Physical Chemistry Chemical Physics, 2016, 18, 11008-11016.	2.8	5
159	Rewiring Neuronal Circuits: A New Method for Fast Neurite Extension and Functional Neuronal Connection. Journal of Visualized Experiments, 2017, , .	0.3	5
160	Amplitude Dependence of Resonance Frequency and its Consequences for Scanning Probe Microscopy. Sensors, 2019, 19, 4510.	3.8	5
161	Reorganization takes energy. Nature Nanotechnology, 2018, 13, 360-361.	31.5	4
162	Response of mechanically-created neurites to extension. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 98, 121-130.	3.1	4

#	Article	IF	Citations
163	Reversing adhesion with light: a general method for functionalized bead release from cells. Biomaterials Science, 2016, 4, 1193-1196.	5.4	3
164	Optical excitation of atomic force microscopy cantilever for accurate spectroscopic measurements. EPJ Techniques and Instrumentation, 2020, 7, .	1.3	3
165	Data analysis of nonlinear systems: Application to Au nanowires. Review of Scientific Instruments, 2002, 73, 3324-3328.	1.3	2
166	Properties of amorphous Alâ€“Yb alloy coating for scanning near-field optical microscopy tips. Journal of Applied Physics, 2002, 92, 6895-6899.	2.5	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. Applied Optics, 2020, 59, 2914.	1.8	2
169	Electrostatic Force Microscopy Characterization of Low Dimensional Systems. Springer Series in Surface Sciences, 2012, , 175-199.	0.3	1
170	Sensitivity measurement of a cantilever-based surface stress sensor. Journal of Chemical Physics, 2016, 145, 154704.	3.0	1
171	Dissipation Modulated Kelvin Probe Force Microscopy Method. Springer Series in Surface Sciences, 2018, , 23-47.	0.3	1
172	IL-13 Increases Human Airway Smooth Muscle Cell Stiffening Induced By Histamine. , 2010, , .		0
173	Photovoltaics at the nanoscale. , 2013, , .		0
174	Electrostatic Force Microscopy: Measuring Ion Mobility, Non-linear Optical Signals and Achieving Ultimate Time Resolution. Microscopy and Microanalysis, 2020, 26, 2984-2987.	0.4	0