

# Peter Hinterdorfer

## List of Publications by Year in descending order

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Version: 2024-02-01

232  
papers

10,719  
citations

26567

56  
h-index

38300

95  
g-index

244  
all docs

244  
docs citations

244  
times ranked

9886  
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic Force Microscopy-Based Force Spectroscopy and Multiparametric Imaging of Biomolecular and Cellular Systems. <i>Chemical Reviews</i> , 2021, 121, 11701-11725.	23.0	109
2	Nanomechanical mechanisms of Lyme disease spirochete motility enhancement in extracellular matrix. <i>Communications Biology</i> , 2021, 4, 268.	2.0	9
3	Identification of lectin receptors for conserved SARS-CoV-2 glycosylation sites. <i>EMBO Journal</i> , 2021, 40, e108375.	3.5	44
4	Force spectroscopy of single cells using atomic force microscopy. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	61
5	Cohesin mediates DNA loop extrusion by a "swing and clamp" mechanism. <i>Cell</i> , 2021, 184, 5448-5464.e22.	13.5	87
6	Weak Fragment Crystallizable (Fc) Domain Interactions Drive the Dynamic Assembly of IgG Oligomers upon Antigen Recognition. <i>ACS Nano</i> , 2020, 14, 2739-2750.	7.3	36
7	Localizing Binding Sites on Bioconjugated Hydrogen-Bonded Organic Semiconductors at the Nanoscale. <i>ChemPhysChem</i> , 2020, 21, 659-666.	1.0	3
8	Nanoscope Approach to Study the Early Stages of Epithelial to Mesenchymal Transition (EMT) of Human Retinal Pigment Epithelial (RPE) Cells In Vitro. <i>Life</i> , 2020, 10, 128.	1.1	3
9	Catching Common Cold Virus with a Net: Pyridostatin Forms Filaments in Tris Buffer That Trap Viruses – A Novel Antiviral Strategy?. <i>Viruses</i> , 2020, 12, 723.	1.5	2
10	3D multiphoton lithography using biocompatible polymers with specific mechanical properties. <i>Nanoscale Advances</i> , 2020, 2, 2422-2428.	2.2	17
11	Allosterically Linked Binding Sites in Serotonin Transporter Revealed by Single Molecule Force Spectroscopy. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 99.	1.6	4
12	Control of Ligand-Binding Specificity Using Photocleavable Linkers in AFM Force Spectroscopy. <i>Nano Letters</i> , 2020, 20, 4038-4042.	4.5	17
13	Nanoscale Characteristics and Antimicrobial Properties of (SI-ATRP)-Seeded Polymer Brush Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 29312-29319.	4.0	49
14	Unraveling the Macromolecular Pathways of IgG Oligomerization and Complement Activation on Antigenic Surfaces. <i>Nano Letters</i> , 2019, 19, 4787-4796.	4.5	79
15	Ultra-Sensitive and Label-Free Probing of Binding Affinity Using Recognition Imaging. <i>Nano Letters</i> , 2019, 19, 612-617.	4.5	14
16	Molecular Recognition Force Spectroscopy for Probing Cell Targeted Nanoparticles In Vitro. <i>Methods in Molecular Biology</i> , 2019, 1886, 327-341.	0.4	2
17	AFM-Based Force Spectroscopy Guided by Recognition Imaging: A New Mode for Mapping and Studying Interaction Sites at Low Lateral Density. <i>Methods and Protocols</i> , 2019, 2, 6.	0.9	11
18	Investigation of Bacterial Curli Production and Adhesion Using AFM. <i>Methods in Molecular Biology</i> , 2019, 1886, 221-231.	0.4	2

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19	Interaction of von Willebrand factor domains with collagen investigated by single molecule force spectroscopy. <i>Journal of Chemical Physics</i> , 2018, 148, 123310.	1.2	12
20	Communication between N terminus and loop2 tunes Orai activation. <i>Journal of Biological Chemistry</i> , 2018, 293, 1271-1285.	1.6	44
21	Lipoteichoic acid mediates binding of a <i>Lactobacillus</i> S-layer protein. <i>Glycobiology</i> , 2018, 28, 148-158.	1.3	16
22	Inhibition of mitochondrial UCP1 and UCP3 by purine nucleotides and phosphate. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 664-672.	1.4	36
23	Simultaneous AFM topography and recognition imaging at the plasma membrane of mammalian cells. <i>Seminars in Cell and Developmental Biology</i> , 2018, 73, 45-56.	2.3	32
24	Atomic Force Microscopy (AFM) for Topography and Recognition Imaging at Single-Molecule Level. , 2018, , 1-14.		0
25	Sensing the Ultrastructure of Bacterial Surfaces and Their Molecular Binding Forces Using AFM. <i>Methods in Molecular Biology</i> , 2018, 1814, 363-372.	0.4	3
26	Two Ligand Binding Sites in Serotonin Transporter Revealed by Nanopharmacological Force Sensing. <i>Methods in Molecular Biology</i> , 2018, 1814, 19-33.	0.4	6
27	Contributions of the Hydrophobic Helix 2 of the <i>Bordetella pertussis</i> CyaA-hemolysin to Membrane Permeabilization. <i>Protein and Peptide Letters</i> , 2018, 25, 236-243.	0.4	8
28	Mutual A domain interactions in the force sensing protein von Willebrand factor. <i>Journal of Structural Biology</i> , 2017, 197, 57-64.	1.3	46
29	Characterizing the effect of polymyxin B antibiotics to lipopolysaccharide on <i>Escherichia coli</i> surface using atomic force microscopy. <i>Journal of Molecular Recognition</i> , 2017, 30, e2605.	1.1	24
30	Photopicking: In Situ Approach for Site-Specific Attachment of Single Multiprotein Nanoparticles to Atomic Force Microscopy Tips. <i>Advanced Functional Materials</i> , 2017, 27, 1604506.	7.8	2
31	Biomedical Sensing with the Atomic Force Microscope. , 2017, , 135-173.		0
32	Multiple Evidenz für einen ungewöhnlichen Wechselwirkungsmodus zwischen Calmodulin und Orai-Proteinen. <i>Angewandte Chemie</i> , 2017, 129, 15962-15967.	1.6	0
33	Detailed Evidence for an Unparalleled Interaction Mode between Calmodulin and Orai Proteins. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15755-15759.	7.2	12
34	Atomic Force Microscopy as a Tool to Assess the Specificity of Targeted Nanoparticles in Biological Models of High Complexity. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700597.	3.9	6
35	Biomedical Sensing with the Atomic Force Microscope. <i>Springer Handbooks</i> , 2017, , 809-844.	0.3	2
36	HDL particles incorporate into lipid bilayers – a combined AFM and single molecule fluorescence microscopy study. <i>Scientific Reports</i> , 2017, 7, 15886.	1.6	29

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37	Combined Recognition Imaging and Force Spectroscopy: A New Mode for Mapping and Studying Interaction Sites at Low Lateral Density. <i>Science of Advanced Materials</i> , 2017, 9, 128-134.	0.1	15
38	Nanopharmacological Force Sensing to Reveal Allosteric Coupling in Transporter Binding Sites. <i>Angewandte Chemie</i> , 2016, 128, 1751-1754.	1.6	3
39	Nanopharmacological Force Sensing to Reveal Allosteric Coupling in Transporter Binding Sites. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1719-1722.	7.2	29
40	Mutual a Domain Interactions in the Force Sensing Protein von Willebrand Factor (VWF). <i>Biophysical Journal</i> , 2016, 110, 496a.	0.2	1
41	Single molecule force spectroscopy data and BD- and MD simulations on the blood protein von Willebrand factor. <i>Data in Brief</i> , 2016, 8, 1080-1087.	0.5	5
42	Curli mediate bacterial adhesion to fibronectin via tensile multiple bonds. <i>Scientific Reports</i> , 2016, 6, 33909.	1.6	50
43	Calibrated complex impedance of CHO cells and <i>E. coli</i> bacteria at GHz frequencies using scanning microwave microscopy. <i>Nanotechnology</i> , 2016, 27, 135702.	1.3	36
44	Nanoscale characteristics of antibacterial cationic polymeric brushes and single bacterium interactions probed by force microscopy. <i>RSC Advances</i> , 2016, 6, 17092-17099.	1.7	13
45	Genetic characterization of an adapted pandemic 2009 H1N1 influenza virus that reveals improved replication rates in human lung epithelial cells. <i>Virology</i> , 2016, 492, 118-129.	1.1	8
46	Force-Sensitive Autoinhibition of the von Willebrand Factor Is Mediated by Interdomain Interactions. <i>Biophysical Journal</i> , 2015, 108, 2312-2321.	0.2	64
47	Quantitative sub-surface and non-contact imaging using scanning microwave microscopy. <i>Nanotechnology</i> , 2015, 26, 135701.	1.3	47
48	Designing of dynamic polyethyleneimine (PEI) brushes on polyurethane (PU) ureteral stents to prevent infections. <i>Acta Biomaterialia</i> , 2015, 21, 44-54.	4.1	52
49	Influence of Surface Morphology on the Antimicrobial Effect of Transition Metal Oxides in Polymer Surface. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 7853-7859.	0.9	12
50	Cell surface localised Hsp70 is a cancer specific regulator of clathrin-independent endocytosis. <i>FEBS Letters</i> , 2015, 589, 2747-2753.	1.3	37
51	High-Speed AFM Images of Thermal Motion Provide Stiffness Map of Interfacial Membrane Protein Moieties. <i>Nano Letters</i> , 2015, 15, 759-763.	4.5	49
52	Nano-characterization of two closely related melanoma cell lines with different metastatic potential. <i>European Biophysics Journal</i> , 2015, 44, 49-55.	1.2	15
53	pH-Dependent Deformations of the Energy Landscape of Avidin-like Proteins Investigated by Single Molecule Force Spectroscopy. <i>Molecules</i> , 2014, 19, 12531-12546.	1.7	10
54	Identification of novel insulin mimetic drugs by quantitative total internal reflection fluorescence (TIRF) microscopy. <i>British Journal of Pharmacology</i> , 2014, 171, 5237-5251.	2.7	28

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55	Kinetics of bioconjugate nanoparticle label binding in a sandwich-type immunoassay. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 493-503.	1.9	5
56	Investigating the binding behaviour of two avidin-based testosterone binders using molecular recognition force spectroscopy. <i>Journal of Molecular Recognition</i> , 2014, 27, 92-97.	1.1	4
57	Applications of biosensing atomic force microscopy in monitoring drug and nanoparticle delivery. <i>Expert Opinion on Drug Delivery</i> , 2014, 11, 1237-1253.	2.4	34
58	Nanoscale Organization of Human GnRH-R on Human Bladder Cancer Cells. <i>Analytical Chemistry</i> , 2014, 86, 2458-2464.	3.2	29
59	IgGs are made for walking on bacterial and viral surfaces. <i>Nature Communications</i> , 2014, 5, 4394.	5.8	97
60	Forces and Dynamics of Glucose and Inhibitor Binding to Sodium Glucose Co-transporter SGLT1 Studied by Single Molecule Force Spectroscopy. <i>Journal of Biological Chemistry</i> , 2014, 289, 21673-21683.	1.6	17
61	Single molecule binding dynamics measured with atomic force microscopy. <i>Ultramicroscopy</i> , 2014, 140, 32-36.	0.8	6
62	Single molecular dissection of the ligand binding property of epidermal growth factor receptor. <i>Analyst</i> , 2013, 138, 5325.	1.7	8
63	Activation induced morphological changes and integrin $\alpha$ IIb $\beta$ 3 activity of living platelets. <i>Methods</i> , 2013, 60, 179-185.	1.9	18
64	Single-Molecule Analysis of the Recognition Forces Underlying Nucleo-Cytoplasmic Transport. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10356-10359.	7.2	16
65	Mapping the Nucleotide Binding Site of Uncoupling Protein 1 Using Atomic Force Microscopy. <i>Journal of the American Chemical Society</i> , 2013, 135, 3640-3646.	6.6	41
66	Functional AFM Imaging of Cellular Membranes Using Functionalized Tips. <i>Methods in Molecular Biology</i> , 2013, 950, 359-371.	0.4	4
67	Targeted Delivery of siRNA into Breast Cancer Cells via Phage Fusion Proteins. <i>Molecular Pharmaceutics</i> , 2013, 10, 551-559.	2.3	46
68	Nanomapping of CD1d-glycolipid complexes on THP1 cells by using simultaneous topography and recognition imaging. <i>Journal of Molecular Recognition</i> , 2013, 26, 408-414.	1.1	9
69	Characterizing the S-layer structure and anti-S-layer antibody recognition on intact <i>Tannerella forsythia</i> cells by scanning probe microscopy and small angle X-ray scattering. <i>Journal of Molecular Recognition</i> , 2013, 26, 542-549.	1.1	16
70	Single-Molecule Analysis of the Recognition Forces Underlying Nucleo-Cytoplasmic Transport. <i>Angewandte Chemie</i> , 2013, 125, 10546-10549.	1.6	7
71	SLC5 and SLC2 Transporters in Epithelia—Cellular Role and Molecular Mechanisms. <i>Current Topics in Membranes</i> , 2012, 70, 29-76.	0.5	14
72	Probing Binding Pocket of Serotonin Transporter by Single Molecular Force Spectroscopy on Living Cells. <i>Journal of Biological Chemistry</i> , 2012, 287, 105-113.	1.6	63

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73	Influenza virus binds its host cell using multiple dynamic interactions. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13626-13631.	3.3	119
74	Characterization of Curli A Production on Living Bacterial Surfaces by Scanning Probe Microscopy. Biophysical Journal, 2012, 103, 1666-1671.	0.2	25
75	Increased imaging speed and force sensitivity for bio-applications with small cantilevers using a conventional AFM setup. Micron, 2012, 43, 1399-1407.	1.1	19
76	Atomic Force Microscopy Functional Imaging on Vascular Endothelial Cells. Methods in Molecular Biology, 2012, 931, 331-344.	0.4	4
77	Painting with Biomolecules at the Nanoscale: Biofunctionalization with Tunable Surface Densities. Nano Letters, 2012, 12, 1983-1989.	4.5	38
78	Single Molecular Recognition Force Spectroscopy Study of a Luteinizing Hormone-Releasing Hormone Analogue as a Carcinoma Target Drug. Journal of Physical Chemistry B, 2012, 116, 13331-13337.	1.2	34
79	Single-Molecule Imaging of Cell Surfaces Using Near-Field Nanoscopy. Accounts of Chemical Research, 2012, 45, 327-336.	7.6	80
80	Nanoscale DNA Tetrahedra Improve Biomolecular Recognition on Patterned Surfaces. Small, 2012, 8, 89-97.	5.2	50
81	Analysis of the cell surface layer ultrastructure of the oral pathogen Tannerella forsythia. Archives of Microbiology, 2012, 194, 525-539.	1.0	37
82	Topology-Selective Chromatography Reveals Plasmid Supercoiling Shifts during Fermentation and Allows Rapid and Efficient Preparation of Topoisomers. Angewandte Chemie - International Edition, 2012, 51, 267-270.	7.2	6
83	Time-resolved chloroquine-induced relaxation of supercoiled plasmid DNA. Analytical and Bioanalytical Chemistry, 2012, 402, 373-380.	1.9	7
84	Force Spectroscopy and Recognition Imaging of Cells from the Immune System. , 2012, , 49-75.		0
85	Linking of Sensor Molecules with Amino Groups to Amino-Functionalized AFM Tips. Bioconjugate Chemistry, 2011, 22, 1239-1248.	1.8	145
86	Characterization of Enhanced Monovalent and Bivalent Thrombin DNA Aptamer Binding Using Single Molecule Force Spectroscopy. Biophysical Journal, 2011, 101, 1781-1787.	0.2	29
87	Single-molecule recognition force spectroscopy of transmembrane transporters on living cells. Nature Protocols, 2011, 6, 1443-1452.	5.5	50
88	Exploring Carbon Nanotubes and Their Interaction with Cells Using Atomic Force Microscopy. , 2011, , 1-16.		0
89	A biophysical glance at the outer surface of the membrane transporter SGLT1. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 1-18.	1.4	9
90	Normal and Pathological Erythrocytes Studied by Atomic Force Microscopy. Methods in Molecular Biology, 2011, 736, 223-241.	0.4	7

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91	Two-Dimensional Kinetics of Inter-Connexin Interactions from Single-Molecule Force Spectroscopy. <i>Journal of Molecular Biology</i> , 2011, 412, 72-79.	2.0	11
92	Single HA2 Mutation Increases the Infectivity and Immunogenicity of a Live Attenuated H5N1 Intranasal Influenza Vaccine Candidate Lacking NS1. <i>PLoS ONE</i> , 2011, 6, e18577.	1.1	75
93	Molecular Recognition Force Spectroscopy. , 2011, , 3-46.		1
94	Atomic force microscopy-based antibody recognition imaging of proteins in the pathological deposits in Pseudoexfoliation Syndrome. <i>Ultramicroscopy</i> , 2011, 111, 1055-1061.	0.8	38
95	High-frequency electromagnetic dynamics properties of THP1 cells using scanning microwave microscopy. <i>Ultramicroscopy</i> , 2011, 111, 1625-1629.	0.8	23
96	Interlaboratory round robin on cantilever calibration for AFM force spectroscopy. <i>Ultramicroscopy</i> , 2011, 111, 1659-1669.	0.8	110
97	Single-Molecule AFM Characterization of Individual Chemically Tagged DNA Tetrahedra. <i>ACS Nano</i> , 2011, 5, 7048-7054.	7.3	33
98	Nanosensing of Fc $\gamma$ 3 receptors on macrophages. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 2359-2367.	1.9	20
99	Modification of the loops in the ligand-binding site turns avidin into a steroid-binding protein. <i>BMC Biotechnology</i> , 2011, 11, 64.	1.7	9
100	Molecular Recognition Force Spectroscopy: A New Tool to Tailor Targeted Nanoparticles. <i>Small</i> , 2011, 7, 1236-1241.	5.2	15
101	Binding Strength and Dynamics of Invariant Natural Killer Cell T Cell Receptor/CD1d-Glycosphingolipid Interaction on Living Cells by Single Molecule Force Spectroscopy. <i>Journal of Biological Chemistry</i> , 2011, 286, 15973-15979.	1.6	20
102	Quantitative measurement of electric properties on the nanometer scale using atomic force microscopy. , 2011, , .		1
103	Determination of the Kinetic On- and Off-Rate of Single Virus-Cell Interactions. <i>Methods in Molecular Biology</i> , 2011, 736, 197-210.	0.4	16
104	Nanoimaging, Molecular Interaction, and Nanotemplating of Human Rhinovirus. <i>Nanoscience and Technology</i> , 2011, , 589-643.	1.5	0
105	Molecular Recognition Force Microscopy: From Molecular Bonds to Complex Energy Landscapes. , 2011, , 355-387.		2
106	Topography and Recognition Imaging of Cells. , 2011, , 145-161.		0
107	Mapping Short Affinity Tags on Bacterial S-layer with an Antibody. <i>ChemPhysChem</i> , 2010, 11, 2323-2326.	1.0	8
108	AFM functional imaging on vascular endothelial cells. <i>Journal of Molecular Recognition</i> , 2010, 23, 589-596.	1.1	39

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109	Molecular recognition imaging using tuning fork-based transverse dynamic force microscopy. <i>Ultramicroscopy</i> , 2010, 110, 605-611.	0.8	21
110	Chemical Tags Mediate the Orthogonal Self-Assembly of DNA Duplexes into Supramolecular Structures. <i>Small</i> , 2010, 6, 1732-1735.	5.2	12
111	Detection of corneodesmosin on the surface of stratum corneum using atomic force microscopy. <i>Experimental Dermatology</i> , 2010, 19, 1014-1019.	1.4	15
112	Nanomechanical recognition measurements of individual DNA molecules reveal epigenetic methylation patterns. <i>Nature Nanotechnology</i> , 2010, 5, 788-791.	15.6	59
113	Force-Induced Lysozyme-HyHEL5 Antibody Dissociation and Its Analysis by Means of a Cooperative Binding Model. <i>Biophysical Journal</i> , 2010, 99, 323-332.	0.2	8
114	Detecting Protein Aggregates on Untreated Human Tissue Samples by Atomic Force Microscopy Recognition Imaging. <i>Biophysical Journal</i> , 2010, 99, 1660-1667.	0.2	32
115	High Speed Bio-AFM Reveals Motion of Membrane Proteins Driven by Hydrophobic Mismatch with nm Precision in Label-Free Fashion. <i>Biophysical Journal</i> , 2010, 99, 2017.	0.2	0
116	Higher Dispersion Efficacy of Functionalized Carbon Nanotubes in Chemical and Biological Environments. <i>ACS Nano</i> , 2010, 4, 2615-2626.	7.3	189
117	Atomic Force Microscopy Studies of Human Rhinovirus. <i>Methods in Enzymology</i> , 2010, 475, 515-539.	0.4	4
118	Molecular Recognition Force Microscopy: From Molecular Bonds to Complex Energy Landscapes. , 2010, , 763-785.		3
119	Single-Molecule Studies on Cells and Membranes Using the Atomic Force Microscope. , 2010, , 479-503.		0
120	Atomic Force Microscopy in Nanomedicine. , 2010, , 713-738.		0
121	C-terminal Loop 13 of Na <sup>+</sup> /Glucose Cotransporter 1 Contains Both Stereospecific and Non-stereospecific Sugar Interaction Sites. <i>Journal of Biological Chemistry</i> , 2009, 284, 983-991.	1.6	12
122	Desmocollin 3-mediated Binding Is Crucial for Keratinocyte Cohesion and Is Impaired in Pemphigus. <i>Journal of Biological Chemistry</i> , 2009, 284, 30556-30564.	1.6	108
123	Stable, Non-Destructive Immobilization of Native Nuclear Membranes to Micro-Structured PDMS for Single-Molecule Force Spectroscopy. <i>ChemPhysChem</i> , 2009, 10, 1553-1558.	1.0	9
124	Topography and Recognition Imaging of Protein-Patterned Surfaces Generated by AFM Nanolithography. <i>ChemPhysChem</i> , 2009, 10, 1478-1481.	1.0	11
125	A DNA Nanostructure for the Functional Assembly of Chemical Groups with Tunable Stoichiometry and Defined Nanoscale Geometry. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 525-527.	7.2	78
126	A DNA Nanostructure for the Functional Assembly of Chemical Groups with Tunable Stoichiometry and Defined Nanoscale Geometry. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9016-9016.	7.2	0



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127	Second harmonic atomic force microscopy imaging of live and fixed mammalian cells. Ultramicroscopy, 2009, 109, 1056-1060.	0.8	24
128	Receptor Arrays for the Selective and Efficient Capturing of Viral Particles. Bioconjugate Chemistry, 2009, 20, 466-475.	1.8	8
129	Simultaneous topography and recognition imaging: physical aspects and optimal imaging conditions. Nanotechnology, 2009, 20, 215103.	1.3	53
130	Green fluorescent protein " Tagged HCV non-enveloped capsid like particles: Development of a new tool for tracking HCV core uptake. Biochimie, 2009, 91, 903-915.	1.3	11
131	Detection of metal binding sites on functional S-layer nanoarrays using single molecule force spectroscopy. Journal of Structural Biology, 2009, 168, 217-222.	1.3	32
132	Examination of Native and Carbamide Peroxide-bleached Human Tooth Enamel by Atomic Force Microscopy. Ultrastructural Pathology, 2009, 33, 189-196.	0.4	8
133	Probing the Energy Landscape of Protein-Binding Reactions by Dynamic Force Spectroscopy. , 2009, , 407-447.		5
134	Recognition Imaging Using Atomic Force Microscopy. , 2009, , 525-554.		2
135	Recent progress in AFM molecular recognition studies. Pflugers Archiv European Journal of Physiology, 2008, 456, 237-245.	1.3	92
136	Localization of the ergtotoxin-1 receptors on the voltage sensing domain of hERG K <sup>+</sup> channel by AFM recognition imaging. Pflugers Archiv European Journal of Physiology, 2008, 456, 247-254.	1.3	55
137	Atomic force microscopy in bionanotechnology. Nano Today, 2008, 3, 12-19.	6.2	74
138	Atomic Force Microscopy"Derived Nanoscale Chip for the Detection of Human Pathogenic Viruses. Small, 2008, 4, 847-854.	5.2	17
139	Unbinding Molecular Recognition Force Maps of Localized Single Receptor Molecules by Atomic Force Microscopy. ChemPhysChem, 2008, 9, 590-599.	1.0	27
140	Fabrication of Highly Ordered Gold Nanoparticle Arrays Templated by Crystalline Lattices of Bacterial S-layer Protein. ChemPhysChem, 2008, 9, 2317-2320.	1.0	31
141	Proliferation of aligned mammalian cells on laser-nanostructured polystyrene. Biomaterials, 2008, 29, 1796-1806.	5.7	219
142	The role of oxygen termination of nanocrystalline diamond on immobilisation of BMP-2 and subsequent bone formation. Biomaterials, 2008, 29, 2433-2442.	5.7	90
143	Vesicles generated during storage of red cells are rich in the lipid raft marker stomatin. Transfusion, 2008, 48, 451-462.	0.8	152
144	The surface properties of nanocrystalline diamond and nanoparticulate diamond powder and their suitability as cell growth support surfaces. Biomaterials, 2008, 29, 4275-4284.	5.7	96

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145	Correlations Between AFM and SEM Imaging of Acid-Etched Tooth Enamel. <i>Ultrastructural Pathology</i> , 2008, 32, 1-4.	0.4	11
146	High-Affinity Tags Fused to S-Layer Proteins Probed by Atomic Force Microscopy. <i>Langmuir</i> , 2008, 24, 1324-1329.	1.6	47
147	Determination of CFTR densities in erythrocyte plasma membranes using recognition imaging. <i>Nanotechnology</i> , 2008, 19, 384017.	1.3	40
148	Functionalization of Probe Tips and Supports for Single-Molecule Recognition Force Microscopy. <i>Topics in Current Chemistry</i> , 2008, 285, 29-76.	4.0	75
149	Multiple receptors involved in human rhinovirus attachment to live cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17778-17783.	3.3	159
150	Recognition Imaging and Highly Ordered Molecular Templating of Bacterial S-Layer Nanoarrays Containing Affinity-Tags. <i>Nano Letters</i> , 2008, 8, 4312-4319.	4.5	66
151	Single-Molecule AFM Studies of Substrate Transport by Using the Sodium-Glucose Cotransporter SGLT1. <i>Journal of the Korean Physical Society</i> , 2008, 52, 1336-1340.	0.3	5
152	Molecular Recognition Force Microscopy: From Simple Bonds to Complex Energy Landscapes. , 2008, , 279-308.		2
153	Three Surface Subdomains Form the Vestibule of the Na <sup>+</sup> /Glucose Cotransporter SGLT1. <i>Journal of Biological Chemistry</i> , 2007, 282, 25222-25230.	1.6	22
154	Signalverarbeitungsalgorithmen für ein Rasterkraftmikroskop, betrieben im TREC-Modus (Signal) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Messen, 2007, 74, 196-203.	0.3	1
155	Accuracy Estimation in Force Spectroscopy Experiments. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 5536.	0.8	10
156	Single Molecule Force Microscopy on Cells and Biological Membranes. <i>Current Nanoscience</i> , 2007, 3, 49-56.	0.7	14
157	Self-Assembled Monolayers with Latent Aldehydes for Protein Immobilization. <i>Bioconjugate Chemistry</i> , 2007, 18, 247-253.	1.8	51
158	A New, Simple Method for Linking of Antibodies to Atomic Force Microscopy Tips. <i>Bioconjugate Chemistry</i> , 2007, 18, 1176-1184.	1.8	242
159	Substrate Specificity of Sugar Transport by Rabbit SGLT1: Single-Molecule Atomic Force Microscopy versus Transport Studies. <i>Biochemistry</i> , 2007, 46, 2797-2804.	1.2	32
160	Free Energy of Membrane Protein Unfolding Derived from Single-Molecule Force Measurements. <i>Biophysical Journal</i> , 2007, 93, 930-937.	0.2	45
161	Nano-Scale Dynamic Recognition Imaging on Vascular Endothelial Cells. <i>Biophysical Journal</i> , 2007, 93, L11-L13.	0.2	135
162	Atomic force microscopy imaging and single molecule recognition force spectroscopy of coat proteins on the surface of <i>Bacillus subtilis</i> spore. <i>Journal of Molecular Recognition</i> , 2007, 20, 483-489.	1.1	29

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163	Past, present and future of atomic force microscopy in life sciences and medicine. <i>Journal of Molecular Recognition</i> , 2007, 20, 418-431.	1.1	165
164	Comparison of different aminofunctionalization strategies for attachment of single antibodies to AFM cantilevers. <i>Ultramicroscopy</i> , 2007, 107, 922-927.	0.8	172
165	Age determination of blood spots in forensic medicine by force spectroscopy. <i>Forensic Science International</i> , 2007, 170, 8-14.	1.3	105
166	Dynamic force microscopy imaging of plasmid DNA and viral RNA. <i>Biomaterials</i> , 2007, 28, 2403-2411.	5.7	39
167	Higher Harmonic Atomic Force Microscopy: Imaging of Biological Membranes in Liquid. <i>Physical Review Letters</i> , 2007, 99, 046102.	2.9	93
168	Single-Molecule Studies on Cells and Membranes Using the Atomic Force Microscope. <i>Nanoscience and Technology</i> , 2007, , 101-125.	1.5	1
169	Molecular Recognition Force Microscopy: From Simple Bonds to Complex Energy Landscapes. , 2007, , 767-790.		0
170	Antibody Linking to Atomic Force Microscope Tips via Disulfide Bond Formation. <i>Bioconjugate Chemistry</i> , 2006, 17, 1473-1481.	1.8	87
171	Molecular Recognition Imaging and Force Spectroscopy of Single Biomolecules. <i>Accounts of Chemical Research</i> , 2006, 39, 29-36.	7.6	181
172	Reduced number of CFTR molecules in erythrocyte plasma membrane of cystic fibrosis patients. <i>Molecular Membrane Biology</i> , 2006, 23, 317-323.	2.0	38
173	Glass Surfaces Grafted with High-Density Poly(ethylene glycol) as Substrates for DNA Oligonucleotide Microarrays. <i>Langmuir</i> , 2006, 22, 277-285.	1.6	108
174	Dynamic Force Microscopy and Spectroscopy. <i>Nanoscience and Technology</i> , 2006, , 143-164.	1.5	0
175	Selective binding of nanoparticles on surfaces and into polymeric matrices via directed hydrogen bonding interactions. <i>Polymers for Advanced Technologies</i> , 2006, 17, 754-757.	1.6	5
176	Probing drug-cell interactions. <i>Nano Today</i> , 2006, 1, 18-25.	6.2	27
177	Detection and localization of single molecular recognition events using atomic force microscopy. <i>Nature Methods</i> , 2006, 3, 347-355.	9.0	963
178	A combined optical and atomic force microscope for live cell investigations. <i>Ultramicroscopy</i> , 2006, 106, 645-651.	0.8	63
179	Atomic-Force-Microscopy Imaging and Molecular-Recognition-Force Microscopy of Recrystallized Heterotetramers Comprising an S-Layer-Streptavidin Fusion Protein. <i>ChemBioChem</i> , 2006, 7, 588-591.	1.3	22
180	Atomic Force Microscopy in Nanomedicine. <i>Nanoscience and Technology</i> , 2006, , 1-26.	1.5	3

#	ARTICLE	IF	CITATIONS
181	Ligands on the string: single-molecule AFM studies on the interaction of antibodies and substrates with the Na <sup>+</sup> -glucose co-transporter SGLT1 in living cells. <i>Journal of Cell Science</i> , 2006, 119, 2960-2967.	1.2	91
182	Membrane binding of Î²2-glycoprotein I can be described by a two-state reaction model: an atomic force microscopy and surface plasmon resonance study. <i>Biochemical Journal</i> , 2005, 389, 665-673.	1.7	48
183	Structure and distribution of the <i>Bacillus thuringiensis</i> Cry4Ba toxin in lipid membranes. <i>Ultramicroscopy</i> , 2005, 105, 115-124.	0.8	34
184	Direct measurement of protein energy landscape roughness. <i>EMBO Reports</i> , 2005, 6, 482-486.	2.0	99
185	Visualization of Single Receptor Molecules Bound to Human Rhinovirus under Physiological Conditions. <i>Structure</i> , 2005, 13, 1247-1253.	1.6	30
186	Nanopatterning of Biomolecules with Microscale Beads. <i>ChemPhysChem</i> , 2005, 6, 900-903.	1.0	19
187	Localization of Single Avidin-Biotin Interactions Using Simultaneous Topography and Molecular Recognition Imaging. <i>ChemPhysChem</i> , 2005, 6, 897-900.	1.0	123
188	Detection of HSP60 on the membrane surface of stressed human endothelial cells by atomic force and confocal microscopy. <i>Journal of Cell Science</i> , 2005, 118, 1587-1594.	1.2	177
189	Digital signal processing in AFM topography and recognition imaging. , 2005, 5965, 134.		0
190	Directed Assembly of Au Nanoparticles onto Planar Surfaces via Multiple Hydrogen Bonds. <i>Langmuir</i> , 2005, 21, 8414-8421.	1.6	83
191	Single Molecule Studies of Antibody-â€“Antigen Interaction Strength Versus Intra-molecular Antigen Stability. <i>Journal of Molecular Biology</i> , 2005, 347, 597-606.	2.0	106
192	Molecular Recognition Force Microscopy. , 2005, , 283-312.		3
193	Identification of the Human Rhinovirus Serotype 1A Binding Site on the Murine Low-Density Lipoprotein Receptor by Using Human-Mouse Receptor Chimeras. <i>Journal of Virology</i> , 2004, 78, 6766-6774.	1.5	14
194	Monitoring RNA Release from Human Rhinovirus by Dynamic Force Microscopy. <i>Journal of Virology</i> , 2004, 78, 3203-3209.	1.5	35
195	Following single antibody binding to purple membranes in real time. <i>EMBO Reports</i> , 2004, 5, 579-583.	2.0	57
196	Dynamic force microscopy for imaging of viruses under physiological conditions. <i>Biological Procedures Online</i> , 2004, 6, 120-128.	1.4	14
197	Monitoring of glass derivatization with pulsed force mode atomic force microscopy. <i>Microscopy Research and Technique</i> , 2004, 65, 246-251.	1.2	5
198	Hydrodynamic damping of a magnetically oscillated cantilever close to a surface. <i>Ultramicroscopy</i> , 2004, 100, 301-308.	0.8	52

#	ARTICLE	IF	CITATIONS
199	Imaging morphological details and pathological differences of red blood cells using tapping-mode AFM. <i>Biological Chemistry</i> , 2004, 385, 955-60.	1.2	49
200	Direct Discrimination between Models of Protein Activation by Single-Molecule Force Measurements. <i>Biophysical Journal</i> , 2004, 87, 2630-2634.	0.2	31
201	Simultaneous Topography and Recognition Imaging Using Force Microscopy. <i>Biophysical Journal</i> , 2004, 87, 1981-1990.	0.2	169
202	Oriented Binding of the His6-Tagged Carboxyl-Tail of the L-type Ca <sup>2+</sup> Channel $\alpha_1$ -Subunit to a New NTA-Functionalized Self-Assembled Monolayer. <i>Langmuir</i> , 2004, 20, 5885-5890.	1.6	33
203	Molecular Recognition Force Microscopy. , 2004, , 475-494.		1
204	Molecular Recognition Force Microscopy. , 2004, , 475-494.		0
205	Covalent Immobilization of Single Proteins on Mica for Molecular Recognition Force Microscopy. <i>ChemPhysChem</i> , 2003, 4, 1367-1371.	1.0	29
206	Heterobifunctional crosslinkers for tethering single ligand molecules to scanning probes. <i>Analytica Chimica Acta</i> , 2003, 497, 101-114.	2.6	82
207	Simple test system for single molecule recognition force microscopy. <i>Analytica Chimica Acta</i> , 2003, 479, 59-75.	2.6	192
208	Dynamic force microscopy imaging of native membranes. <i>Ultramicroscopy</i> , 2003, 97, 229-237.	0.8	62
209	A molecular switch between alternative conformational states in the complex of Ran and importin $\beta_1$ . <i>Nature Structural and Molecular Biology</i> , 2003, 10, 553-557.	3.6	107
210	Molecular Recognition Studies Using the Atomic Force Microscope. <i>Methods in Cell Biology</i> , 2002, 68, 115-139.	0.5	30
211	Ca <sup>++</sup> -dependent vesicle release from erythrocytes involves stomatin-specific lipid rafts, synexin (annexin VII), and sorcin. <i>Blood</i> , 2002, 99, 2569-2577.	0.6	220
212	Single Molecule Recognition of Protein Binding Epitopes in Brush Border Membranes by Force Microscopy. <i>Biophysical Journal</i> , 2002, 82, 2767-2774.	0.2	68
213	Dithio-Phospholipids for Biospecific Immobilization of Proteins on Gold Surfaces. <i>Single Molecules</i> , 2002, 3, 119-125.	1.7	17
214	Editorial: The Linz Winter-Workshop: Past and Future. <i>Single Molecules</i> , 2002, 3, 181-181.	1.7	0
215	Biomolecular force measurements and the atomic force microscope. <i>Current Opinion in Biotechnology</i> , 2002, 13, 47-51.	3.3	127
216	Surface attachment of ligands and receptors for molecular recognition force microscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2002, 23, 115-123.	2.5	64

#	ARTICLE	IF	CITATIONS
217	Detection and characterization of single biomolecules at surfaces. <i>Reviews in Molecular Biotechnology</i> , 2001, 82, 25-35.	2.9	13
218	Self-Assembled Growth of Highly Oriented Para- Sexiphenyl Thin Films Controlled by Elastic Strain. <i>Materials Research Society Symposia Proceedings</i> , 2001, 665, C5.24.1.	0.1	1
219	Quasi-crystalline Arrangement of Human Rhinovirus 2 on Model Cell Membranes. <i>Single Molecules</i> , 2001, 2, 99-103.	1.7	15
220	Recognition Force Spectroscopy Studies of the NTA-His6 Bond. <i>Single Molecules</i> , 2000, 1, 59-65.	1.7	111
221	Static and Dynamical Properties of Single Poly(Ethylene Glycol) Molecules Investigated by Force Spectroscopy. <i>Single Molecules</i> , 2000, 1, 123-128.	1.7	238
222	Effects of Viscoelastic Cantilever - Sample Interaction on Laser Beam Deflection in MAC Mode MRFM. <i>Single Molecules</i> , 2000, 1, 165-170.	1.7	8
223	Poly(Ethylene Glycol): An Ideal Spacer for Molecular Recognition Force Microscopy/Spectroscopy.. <i>Single Molecules</i> , 2000, 1, 99-103.	1.7	83
224	Single molecule microscopy of biomembranes (Review). <i>Molecular Membrane Biology</i> , 2000, 17, 17-29.	2.0	63
225	Recognition Force Spectroscopy Studies of the NTA-His6 Bond. , 2000, 1, 59.		1
226	Recognition Force Spectroscopy Studies of the NTA-His6 Bond. , 2000, 1, 59.		1
227	Recognition Force Spectroscopy Studies of the NTA-His6 Bond. , 2000, 1, 59.		1
228	Static and Dynamical Properties of Single Poly(Ethylene Glycol) Molecules Investigated by Force Spectroscopy. , 2000, 1, 123.		13
229	Poly(Ethylene Glycol): An Ideal Spacer for Molecular Recognition Force Microscopy/Spectroscopy.. , 2000, 1, 99.		2
230	Antibody recognition imaging by force microscopy. <i>Nature Biotechnology</i> , 1999, 17, 901-905.	9.4	241
231	Simultaneous Height and Adhesion Imaging of Antibody-Antigen Interactions by Atomic Force Microscopy. <i>Biophysical Journal</i> , 1998, 75, 2220-2228.	0.2	198
232	Analysis of Membrane Protein Self-Association in Lipid Systems by Fluorescence Particle Counting:Â Application to the Dihydropyridine Receptorâ€. <i>Biochemistry</i> , 1997, 36, 4497-4504.	1.2	9