Daniel J. Muller

List of Publications by Year
in descending order

312 papers	28,791 citations	3531 90 h-index	7348 152 g-index
328 all docs	328 docs citations	328 times ranked	23043 citing authors

#	Article	IF	Citations
1	<scp>GSDMD</scp> membrane pore formation constitutes the mechanism of pyroptotic cell death. EMBO Journal, 2016, 35, 1766-1778.	7.8	842
2	Imaging modes of atomic force microscopy for application in molecular and cell biology. Nature Nanotechnology, 2017, 12, 295-307.	31.5	699
3	Tau protein liquidâ€"liquid phase separation can initiate tau aggregation. EMBO Journal, 2018, 37, .	7.8	696
4	Tensile forces govern germ-layer organization in zebrafish. Nature Cell Biology, 2008, 10, 429-436.	10.3	692
5	Atomic force microscopy as a multifunctional molecular toolbox in nanobiotechnology. Nature Nanotechnology, 2008, 3, 261-269.	31.5	678
6	Unfolding Pathways of Individual Bacteriorhodopsins. Science, 2000, 288, 143-146.	12.6	677
7	Hydrostatic pressure and the actomyosin cortex drive mitotic cell rounding. Nature, 2011, 469, 226-230.	27.8	576
8	Observing single biomolecules at work with the atomic force microscope. , 2000, 7, 715-718.		506
9	Atomic force microscopy-based mechanobiology. Nature Reviews Physics, 2019, 1, 41-57.	26.6	500
10	Proton-powered turbine of a plant motor. Nature, 2000, 405, 418-419.	27.8	478
11	Single-cell force spectroscopy. Journal of Cell Science, 2008, 121, 1785-1791.	2.0	443
12	Force probing surfaces of living cells to molecular resolution. Nature Chemical Biology, 2009, 5, 383-390.	8.0	430
13	Multiparametric imaging of biological systems by force-distance curveâ€"based AFM. Nature Methods, 2013, 10, 847-854.	19.0	378
14	Imaging and manipulation of biological structures with the AFM. Micron, 2002, 33, 385-397.	2.2	364
15	Electrostatically Balanced Subnanometer Imaging of Biological Specimens by Atomic Force Microscope. Biophysical Journal, 1999, 76, 1101-1111.	0.5	349
16	Atomic force microscopy: a nanoscopic window on the cell surface. Trends in Cell Biology, 2011, 21, 461-469.	7.9	329
17	Imaging purple membranes in aqueous solutions at sub-nanometer resolution by atomic force microscopy. Biophysical Journal, 1995, 68, 1681-1686.	0.5	326
18	The nucleus acts as a ruler tailoring cell responses to spatial constraints. Science, 2020, 370, .	12.6	299

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19	Adsorption of Biological Molecules to a Solid Support for Scanning Probe Microscopy. Journal of Structural Biology, 1997, 119, 172-188.	2.8	293
20	Neuronal uptake and propagation of a rare phosphorylated high-molecular-weight tau derived from Alzheimerâ€™s disease brain. Nature Communications, 2015, 6, 8490.	12.8	283
21	Wnt11 Functions in Gastrulation by Controlling Cell Cohesion through Rab5c and E-Cadherin. Developmental Cell, 2005, 9, 555-564.	7.0	273
22	Tapping-Mode Atomic Force Microscopy Produces Faithful High-Resolution Images of Protein Surfaces. Biophysical Journal, 1999, 77, 1150-1158.	0.5	256
23	Structure of the rhodopsin dimer: a working model for G-protein-coupled receptors. Current Opinion in Structural Biology, 2006, 16, 252-259.	5.7	253
24	The height of biomolecules measured with the atomic force microscope depends on electrostatic interactions. Biophysical Journal, 1997, 73, 1633-1644.	0.5	251
25	Control of Directed Cell Migration In Vivo by Membrane-to-Cortex Attachment. PLoS Biology, 2010, 8, e1000544.	5.6	231
26	AFM: A Nanotool in Membrane Biology. Biochemistry, 2008, 47, 7986-7998.	2.5	227
27	A new technical approach to quantify cellâ€“cell adhesion forces by AFM. Ultramicroscopy, 2006, 106, 637-644.	1.9	225
28	Conformational changes in surface structures of isolated connexin 26 gap junctions. EMBO Journal, 2002, 21, 3598-3607.	7.8	221
29	Voltage and pH-induced channel closure of porin OmpF visualized by atomic force microscopy 1 1Edited by W. Baumeister. Journal of Molecular Biology, 1999, 285, 1347-1351.	4.2	220
30	Atomic force microscopy and spectroscopy of native membrane proteins. Nature Protocols, 2007, 2, 2191-2197.	12.0	214
31	Kindlin-2 cooperates with talin to activate integrins and induces cell spreading by directly binding paxillin. ELife, 2016, 5, e10130.	6.0	213
32	Assembly of collagen into microribbons: effects of pH and electrolytes. Journal of Structural Biology, 2004, 148, 268-278.	2.8	208
33	Force-induced conformational change of bacteriorhodopsin. Journal of Molecular Biology, 1995, 249, 239-243.	4.2	188
34	Revealing Early Steps of Î±2Î²1 Integrin-mediated Adhesion to Collagen Type I by Using Single-Cell Force Spectroscopy. Molecular Biology of the Cell, 2007, 18, 1634-1644.	2.1	188
35	Bacterial Na + â€ATP synthase has an undecameric rotor. EMBO Reports, 2001, 2, 229-233.	4.5	185
36	Controlled unzipping of a bacterial surface layer with atomic force microscopy. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 13170-13174.	7.1	180

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37	Straight GDP-Tubulin Protofilaments Form in the Presence of Taxol. Current Biology, 2007, 17, 1765-1770.	3.9	179
38	Mechanism of membrane pore formation by human gasderminâ€Ð. EMBO Journal, 2018, 37, .	7.8	178
39	High resolution AFM topographs of the Escherichia coli water channel aquaporin Z. EMBO Journal, 1999, 18, 4981-4987.	7.8	176
40	The c₁₅ ring of the <i>Spirulina platensis</i> Fâ€ATP synthase: F₁/F₀ symmetry mismatch is not obligatory. EMBO Reports, 2005, 6, 1040-1044.	4.5	173
41	Quantifying cellular adhesion to extracellular matrix components by single-cell force spectroscopy. Nature Protocols, 2010, 5, 1353-1361.	12.0	172
42	Nanomechanical mapping of first binding steps of a virus to animal cells. Nature Nanotechnology, 2017, 12, 177-183.	31.5	170
43	High resolution imaging of native biological sample surfaces using scanning probe microscopy. Current Opinion in Structural Biology, 1997, 7, 279-284.	5.7	163
44	Stability of Bacteriorhodopsin Î±-Helices and Loops Analyzed by Single-Molecule Force Spectroscopy. Biophysical Journal, 2002, 83, 3578-3588.	0.5	163
45	Measuring cell adhesion forces of primary gastrulating cells from zebrafish using atomic force microscopy. Journal of Cell Science, 2005, 118, 4199-4206.	2.0	161
46	A practical guide to quantify cell adhesion using single-cell force spectroscopy. Methods, 2013, 60, 169-178.	3.8	161
47	From Images to Interactions: High-Resolution Phase Imaging in Tapping-Mode Atomic Force Microscopy. Biophysical Journal, 2001, 80, 3009-3018.	0.5	160
48	Observing structure, function and assembly of single proteins by AFM. Progress in Biophysics and Molecular Biology, 2002, 79, 1-43.	2.9	155
49	Five challenges to bringing single-molecule force spectroscopy into living cells. Nature Methods, 2011, 8, 123-127.	19.0	155
50	Quantification of surface tension and internal pressure generated by single mitotic cells. Scientific Reports, 2014, 4, 6213.	3.3	151
51	A glucose-starvation response regulates the diffusion of macromolecules. ELife, 2016, 5, .	6.0	151
52	Surface Tongue-and-groove Contours on Lens MIP Facilitate Cell-to-cell Adherence. Journal of Molecular Biology, 2000, 300, 779-789.	4.2	149
53	The fuzzy coat of pathological human Tau fibrils is a two-layered polyelectrolyte brush. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E313-21.	7.1	148
54	Observing growth steps of collagen self-assembly by time-lapse high-resolution atomic force microscopy. Journal of Structural Biology, 2006, 154, 232-245.	2.8	145

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55	Atomic force microscopy-based characterization and design of biointerfaces. Nature Reviews Materials, 2017, 2, .	48.7	145
56	Conformational change of the hexagonally packed intermediate layer of Deinococcus radiodurans monitored by atomic force microscopy. Journal of Bacteriology, 1996, 178, 3025-3030.	2.2	143
57	Surface structures of native bacteriorhodopsin depend on the molecular packing arrangement in the membrane 1 1Edited by W. Baumeister. Journal of Molecular Biology, 1999, 285, 1903-1909.	4.2	142
58	Cholesterol increases kinetic, energetic, and mechanical stability of the human Î² ₂ -adrenergic receptor. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E3463-72.	7.1	142
59	Oligomer Formation of Tau Protein Hyperphosphorylated in Cells. Journal of Biological Chemistry, 2014, 289, 34389-34407.	3.4	132
60	Atomic force microscopy: a powerful tool to observe biomolecules at work. Trends in Cell Biology, 1999, 9, 77-80.	7.9	131
61	Cdk1-dependent mitotic enrichment of cortical myosinÂII promotes cell rounding against confinement. Nature Cell Biology, 2015, 17, 148-159.	10.3	131
62	Analyzing focal adhesion structure by atomic force microscopy. Journal of Cell Science, 2005, 118, 5315-5323.	2.0	129
63	Deciphering Molecular Interactions of Native Membrane Proteins by Single-Molecule Force Spectroscopy. Annual Review of Biophysics and Biomolecular Structure, 2007, 36, 233-260.	18.3	124
64	Electrostatic Cell-Surface Repulsion Initiates Lumen Formation in Developing Blood Vessels. Current Biology, 2010, 20, 2003-2009.	3.9	124
65	Atomic force microscopy of native purple membrane. Biochimica Et Biophysica Acta - Bioenergetics, 2000, 1460, 27-38.	1.0	121
66	The effect of unlocking RGD-motifs in collagen I on pre-osteoblast adhesion and differentiation. Biomaterials, 2010, 31, 2827-2835.	11.4	121
67	Rheology of the Active Cell Cortex in Mitosis. Biophysical Journal, 2016, 111, 589-600.	0.5	119
68	Molecular-scale Topographic Cues Induce the Orientation and Directional Movement of Fibroblasts on Two-dimensional Collagen Surfaces. Journal of Molecular Biology, 2005, 349, 380-386.	4.2	118
69	High-resolution atomic force microscopy and spectroscopy of native membrane proteins. Reports on Progress in Physics, 2011, 74, 086601.	20.1	118
70	Mechanism of allosteric regulation of Î²2-adrenergic receptor by cholesterol. ELife, 2016, 5, .	6.0	115
71	Unfolding pathways of native bacteriorhodopsin depend on temperature. EMBO Journal, 2003, 22, 5220-5229.	7.8	111
72	Hydrodynamic effects in fast AFM single-molecule force measurements. European Biophysics Journal, 2005, 34, 91-96.	2.2	111

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73	Movement Directionality in Collective Migration of Germ Layer Progenitors. Current Biology, 2010, 20, 161-169.	3.9	111
74	Fibronectin-bound Î±5Î²1 integrins sense load and signal to reinforce adhesion in less than a second. Nature Materials, 2017, 16, 1262-1270.	27.5	109
75	Atomic Force Microscopy-Based Force Spectroscopy and Multiparametric Imaging of Biomolecular and Cellular Systems. Chemical Reviews, 2021, 121, 11701-11725.	47.7	109
76	Impact of holdase chaperones Skp and SurA on the folding of Î²-barrel outer-membrane proteins. Nature Structural and Molecular Biology, 2015, 22, 795-802.	8.2	108
77	Mapping flexible protein domains at subnanometer resolution with the atomic force microscope. FEBS Letters, 1998, 430, 105-111.	2.8	107
78	The Oligomeric State of c Rings from Cyanobacterial F-ATP Synthases Varies from 13 to 15. Journal of Bacteriology, 2007, 189, 5895-5902.	2.2	106
79	Imaging G proteinâ€“coupled receptors while quantifying their ligand-binding free-energy landscape. Nature Methods, 2015, 12, 845-851.	19.0	106
80	Cellular Remodelling of Individual Collagen Fibrils Visualized by Time-lapse AFM. Journal of Molecular Biology, 2007, 372, 594-607.	4.2	105
81	A Size Barrier Limits Protein Diffusion at the Cell Surface to Generate Lipid-Rich Myelin-Membrane Sheets. Developmental Cell, 2011, 21, 445-456.	7.0	105
82	Scanning probe microscopy. Nature Reviews Methods Primers, 2021, 1, .	21.2	103
83	Imaging streptavidin 2D crystals on biotinylated lipid monolayers at high resolution with the atomic force microscope. Journal of Microscopy, 1999, 193, 28-35.	1.8	102
84	Single-molecule studies of membrane proteins. Current Opinion in Structural Biology, 2006, 16, 489-495.	5.7	102
85	Mechanical Stimulation of Piezo1 Receptors Depends on Extracellular Matrix Proteins and Directionality of Force. Nano Letters, 2017, 17, 2064-2072.	9.1	100
86	Inertial picobalance reveals fast mass fluctuations in mammalian cells. Nature, 2017, 550, 500-505.	27.8	100
87	Controlled Unfolding and Refolding of a Single Sodium-proton Antiporter using Atomic Force Microscopy. Journal of Molecular Biology, 2004, 340, 1143-1152.	4.2	99
88	Surface and Subsurface Morphology of Bovine Humeral Articular Cartilage as Assessed by Atomic Force and Transmission Electron Microscopy. Journal of Structural Biology, 1996, 117, 45-54.	2.8	98
89	Folding and Assembly of Proteorhodopsin. Journal of Molecular Biology, 2008, 376, 35-41.	4.2	96
90	Human Tau Isoforms Assemble into Ribbon-like Fibrils That Display Polymorphic Structure and Stability. Journal of Biological Chemistry, 2010, 285, 27302-27313.	3.4	96

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91	Multiparametric high-resolution imaging of native proteins by force-distance curveâ€"based AFM. Nature Protocols, 2014, 9, 1113-1130.	12.0	95
92	Atomic force microscopy: A forceful way with single molecules. Current Biology, 1999, 9, R133-R136.	3.9	94
93	Surface Topographies at Subnanometer-resolution Reveal Asymmetry and Sidedness of Aquaporin-1. Journal of Molecular Biology, 1996, 264, 907-918.	4.2	93
94	Characterizing Molecular Interactions in Different Bacteriorhodopsin Assemblies by Single-molecule Force Spectroscopy. Journal of Molecular Biology, 2006, 355, 640-650.	4.2	93
95	Bacteriorhodopsin Folds into the Membrane against an External Force. Journal of Molecular Biology, 2006, 357, 644-654.	4.2	93
96	Vertebrate Membrane Proteins: Structure, Function, and Insights from Biophysical Approaches. Pharmacological Reviews, 2008, 60, 43-78.	16.0	92
97	Î±V-class integrins exert dual roles on Î±5Î²1 integrins to strengthen adhesion to fibronectin. Nature Communications, 2017, 8, 14348.	12.8	92
98	Imaging the Electrostatic Potential of Transmembrane Channels: Atomic Probe Microscopy of OmpF Porin. Biophysical Journal, 2002, 82, 1667-1676.	0.5	90
99	Imaging and Quantifying Chemical and Physical Properties of Native Proteins at Molecular Resolution by Forceâ€"Volume AFM. Angewandte Chemie - International Edition, 2011, 50, 12103-12108.	13.8	90
100	The bacteriophage phi 29 head-tail connector imaged at high resolution with the atomic force microscope in buffer solution. EMBO Journal, 1997, 16, 2547-2553.	7.8	89
101	Engineering rotor ring stoichiometries in the ATP synthase. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1599-608.	7.1	89
102	Fourteen Protomers Compose the Oligomer III of the Proton-rotor in Spinach Chloroplast ATP Synthase. Journal of Molecular Biology, 2003, 333, 337-344.	4.2	88
103	Ligand-Specific Interactions Modulate Kinetic, Energetic, and Mechanical Properties of the Human Î²2 Adrenergic Receptor. Structure, 2012, 20, 1391-1402.	3.3	87
104	Galectin-3 Regulates Integrin Î±2Î²1-mediated Adhesion to Collagen-I and -IV. Journal of Biological Chemistry, 2008, 283, 32264-32272.	3.4	86
105	Locating ligand binding and activation of a single antiporter. EMBO Reports, 2005, 6, 668-674.	4.5	85
106	Immuno-atomic force microscopy of purple membrane. Biophysical Journal, 1996, 70, 1796-1802.	0.5	82
107	Probing the Energy Landscape of the Membrane Protein Bacteriorhodopsin. Structure, 2004, 12, 871-879.	3.3	80
108	Structural Changes in Native Membrane Proteins Monitored at Subnanometer Resolution with the Atomic Force Microscope: A Review. Journal of Structural Biology, 1997, 119, 149-157.	2.8	79

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109	The c13 Ring from a Thermoalkaliphilic ATP Synthase Reveals an Extended Diameter Due to a Special Structural Region. Journal of Molecular Biology, 2009, 388, 611-618.	4.2	79
110	Mitotic cells contract actomyosin cortex and generate pressure to round against or escape epithelial confinement. Nature Communications, 2015, 6, 8872.	12.8	79
111	Observing Membrane Protein Diffusion at Subnanometer Resolution. Journal of Molecular Biology, 2003, 327, 925-930.	4.2	78
112	Stages and Conformations of the Tau Repeat Domain during Aggregation and Its Effect on Neuronal Toxicity. Journal of Biological Chemistry, 2014, 289, 20318-20332.	3.4	77
113	ATP synthase: constrained stoichiometry of the transmembrane rotor. FEBS Letters, 2001, 504, 219-222.	2.8	76
114	Contributions of Galectin-3 and -9 to Epithelial Cell Adhesion Analyzed by Single Cell Force Spectroscopy. Journal of Biological Chemistry, 2007, 282, 29375-29383.	3.4	76
115	Single-Cell Force Spectroscopy, an Emerging Tool to Quantify Cell Adhesion to Biomaterials. Tissue Engineering - Part B: Reviews, 2014, 20, 40-55.	4.8	76
116	Mechanical control of mitotic progression in single animal cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11258-11263.	7.1	76
117	The central plug in the reconstituted undecameric c cylinder of a bacterial ATP synthase consists of phospholipids. FEBS Letters, 2001, 505, 353-356.	2.8	75
118	The effect of raft lipid depletion on microvilli formation in MDCK cells, visualized by atomic force microscopy. FEBS Letters, 2004, 565, 53-58.	2.8	75
119	Membrane perforation by the pore-forming toxin pneumolysin. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13352-13357.	7.1	75
120	Directly Observing the Lipid-Dependent Self-Assembly and Pore-Forming Mechanism of the Cytolytic Toxin Listeriolysin O. Nano Letters, 2015, 15, 6965-6973.	9.1	74
121	Conformational Adaptability of RedÎ² during DNA Annealing and Implications for Its Structural Relationship with Rad52. Journal of Molecular Biology, 2009, 391, 586-598.	4.2	73
122	SAS-6 engineering reveals interdependence between cartwheel and microtubules in determining centrioleÂarchitecture. Nature Cell Biology, 2016, 18, 393-403.	10.3	73
123	Vaccinia virus hijacks EGFR signalling to enhance virus spread through rapid and directed infected cell motility. Nature Microbiology, 2019, 4, 216-225.	13.3	73
124	Studying Integrin-Mediated Cell Adhesion at the Single-Molecule Level Using AFM Force Spectroscopy. Science's STKE: Signal Transduction Knowledge Environment, 2007, 2007, pl5.	3.9	72
125	New frontiers in atomic force microscopy: analyzing interactions from single-molecules to cells. Current Opinion in Biotechnology, 2009, 20, 4-13.	6.6	72
126	Detecting Molecular Interactions that Stabilize Native Bovine Rhodopsin. Journal of Molecular Biology, 2006, 358, 255-269.	4.2	71

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127	Aminosulfonate Modulated pH-induced Conformational Changes in Connexin26 Hemichannels. Journal of Biological Chemistry, 2007, 282, 8895-8904.	3.4	71
128	Surface analysis of the photosystem I complex by electron and atomic force microscopy. Journal of Molecular Biology, 1998, 283, 83-94.	4.2	70
129	Sampling the conformational space of membrane protein surfaces with the AFM. European Biophysics Journal, 2002, 31, 172-178.	2.2	70
130	A Bond for a Lifetime: Employing Membrane Nanotubes from Living Cells to Determine Receptorâ€"Ligand Kinetics. Angewandte Chemie - International Edition, 2008, 47, 9775-9777.	13.8	70
131	YidC assists the stepwise and stochastic folding of membrane proteins. Nature Chemical Biology, 2016, 12, 911-917.	8.0	70
132	Atomic force bio-analytics. Current Opinion in Chemical Biology, 2003, 7, 641-647.	6.1	69
133	Molecular Force Modulation Spectroscopy Revealing the Dynamic Response of Single Bacteriorhodopsins. Biophysical Journal, 2005, 88, 1423-1431.	0.5	69
134	Multiparametric Atomic Force Microscopy Imaging of Biomolecular and Cellular Systems. Accounts of Chemical Research, 2017, 50, 924-931.	15.6	68
135	Single Proteins Observed by Atomic Force Microscopy. Single Molecules, 2001, 2, 59-67.	0.9	65
136	Creating Ultrathin Nanoscopic Collagen Matrices For Biological And Biotechnological Applications. Small, 2007, 3, 956-963.	10.0	65
137	Force nanoscopy of living cells. Current Biology, 2011, 21, R212-R216.	3.9	65
138	Wedged AFM-cantilevers for parallel plate cell mechanics. Methods, 2013, 60, 186-194.	3.8	65
139	The fibronectin synergy site re-enforces cell adhesion and mediates a crosstalk between integrin classes. ELife, 2017, 6, .	6.0	65
140	Identification and Structure of a Putative Ca2+-binding Domain at the C Terminus of AQP1. Journal of Molecular Biology, 2002, 318, 1381-1394.	4.2	64
141	Determining molecular forces that stabilize human aquaporin-1. Journal of Structural Biology, 2003, 142, 369-378.	2.8	64
142	Identifying and quantifying two ligand-binding sites while imaging native human membrane receptors by AFM. Nature Communications, 2015, 6, 8857.	12.8	64
143	Protein-enriched outer membrane vesicles as a native platform for outer membrane protein studies. Communications Biology, 2018, 1, 23.	4.4	63
144	Stabilizing Effect of Zn2+ in Native Bovine Rhodopsin. Journal of Biological Chemistry, 2007, 282, 11377-11385.	3.4	61

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145	Deciphering Teneurin Domains That Facilitate Cellular Recognition, Cellâ€“Cell Adhesion, and Neurite Outgrowth Using Atomic Force Microscopy-Based Single-Cell Force Spectroscopy. Nano Letters, 2013, 13, 2937-2946.	9.1	61
146	Force spectroscopy of single cells using atomic force microscopy. Nature Reviews Methods Primers, 2021, 1, .	21.2	61
147	Charting the Surfaces of the Purple Membrane. Journal of Structural Biology, 1999, 128, 243-249.	2.8	60
148	Action of the Hsp70 chaperone system observed with single proteins. Nature Communications, 2015, 6, 6307.	12.8	58
149	Combining confocal and atomic force microscopy to quantify single-virus binding to mammalian cell surfaces. Nature Protocols, 2017, 12, 2275-2292.	12.0	58
150	Neurons differentiate magnitude and location of mechanical stimuli. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 848-856.	7.1	58
151	Biomolecular imaging using atomic force microscopy. Trends in Biotechnology, 2002, 20, S45-S49.	9.3	55
152	Probing Origins of Molecular Interactions Stabilizing the Membrane Proteins Halorhodopsin and Bacteriorhodopsin. Structure, 2005, 13, 235-242.	3.3	54
153	Nanomechanical Properties of Proteins and Membranes Depend on Loading Rate and Electrostatic Interactions. ACS Nano, 2013, 7, 2642-2650.	14.6	54
154	Point Mutations in Membrane Proteins Reshape Energy Landscape and Populate Different Unfolding Pathways. Journal of Molecular Biology, 2008, 376, 1076-1090.	4.2	52
155	Genome-scale single-cell mechanical phenotyping reveals disease-related genes involved in mitotic rounding. Nature Communications, 2017, 8, 1266.	12.8	52
156	Structural evidence for a constant c₁₁ ring stoichiometry in the sodium Fâ€ATP synthase. FEBS Journal, 2005, 272, 5474-5483.	4.7	51
157	Transmembrane Helices Have Rough Energy Surfaces. Journal of the American Chemical Society, 2007, 129, 246-247.	13.7	50
158	Preparation techniques for the observation of native biological systems with the atomic force microscope. Biosensors and Bioelectronics, 1997, 12, 867-877.	10.1	49
159	Products of the Parkinson's disease-related glyoxalase DJ-1, D-lactate and glycolate, support mitochondrial membrane potential and neuronal survival. Biology Open, 2014, 3, 777-784.	1.2	49
160	Observing Folding Pathways and Kinetics of a Single Sodium-proton Antiporter from Escherichia coli. Journal of Molecular Biology, 2006, 355, 2-8.	4.2	48
161	Strategies to prepare and characterize native membrane proteins and protein membranes by AFM. Current Opinion in Colloid and Interface Science, 2008, 13, 338-350.	7.4	48
162	An intermediate step in the evolution of ATPases â€“ a hybrid F₀â€“V₀ rotor in a bacterial Na⁺ F₁F₀ ATP synthase. FEBS Journal, 2008, 275, 1999-2007.	4.7	48

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163	pH-Induced Conformational Change of the Î²-Barrel-Forming Protein OmpG Reconstituted into Native E. coli Lipids. Journal of Molecular Biology, 2010, 396, 610-616.	4.2	48
164	Localizing Chemical Groups while Imaging Single Native Proteins by High-Resolution Atomic Force Microscopy. Nano Letters, 2014, 14, 2957-2964.	9.1	48
165	Gating of the MlotiK1 potassium channel involves large rearrangements of the cyclic nucleotide-binding domains. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20802-20807.	7.1	47
166	Single-Molecule Force Spectroscopy from Nanodiscs: An Assay to Quantify Folding, Stability, and Interactions of Native Membrane Proteins. ACS Nano, 2012, 6, 961-971.	14.6	47
167	Out but Not In: The Large Transmembrane Î²-Barrel Protein FhuA Unfolds but Cannot Refold via Î²-Hairpins. Structure, 2012, 20, 2185-2190.	3.3	47
168	Kinetic, Energetic, and Mechanical Differences between Dark-State Rhodopsin and Opsin. Structure, 2013, 21, 426-437.	3.3	47
169	Free Energy of Membrane Protein Unfolding Derived from Single-Molecule Force Measurements. Biophysical Journal, 2007, 93, 930-937.	0.5	45
170	Tracking mechanics and volume of globular cells with atomic force microscopy using a constant-height clamp. Nature Protocols, 2012, 7, 143-154.	12.0	45
171	Isolation and characterization of gap junctions from tissue culture cells 1 1Edited by W. Baumeister. Journal of Molecular Biology, 2002, 315, 587-600.	4.2	44
172	Competing Interactions Stabilize Pro- and Anti-aggregant Conformations of Human Tau. Journal of Biological Chemistry, 2011, 286, 20512-20524.	3.4	44
173	Creating nanoscopic collagen matrices using atomic force microscopy. Microscopy Research and Technique, 2004, 64, 435-440.	2.2	43
174	From Valleys to Ridges: Exploring the Dynamic Energy Landscape of Single Membrane Proteins. ChemPhysChem, 2008, 9, 954-966.	2.1	43
175	Mechanical Properties of Bovine Rhodopsin and Bacteriorhodopsin:â€‰ Possible Roles in Folding and Function. Langmuir, 2008, 24, 1330-1337.	3.5	43
176	Probing the Interactions of Carboxy-atractyloside and Atractyloside with the Yeast Mitochondrial ADP/ATP Carrier. Structure, 2010, 18, 39-46.	3.3	42
177	Differentiating Ligand and Inhibitor Interactions of a Single Antiporter. Journal of Molecular Biology, 2006, 362, 925-932.	4.2	41
178	Substrate-induced changes in the structural properties of LacY. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1571-80.	7.1	40
179	Nonlinear mechanics of lamin filaments and the meshwork topology build an emergent nuclear lamina. Nature Communications, 2020, 11, 6205.	12.8	40
180	Actin microridges characterized by laser scanning confocal and atomic force microscopy. FEBS Letters, 2005, 579, 2001-2008.	2.8	39

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181	Dynamic coupling of ALCAM to the actin cortex strengthens cell adhesion to CD6. Journal of Cell Science, 2014, 127, 1595-606.	2.0	39
182	Unraveling the Pore-Forming Steps of Pneumolysin from <i>Streptococcus pneumoniae</i>. Nano Letters, 2016, 16, 7915-7924.	9.1	39
183	Virus stamping for targeted single-cell infection in vitro and in vivo. Nature Biotechnology, 2018, 36, 81-88.	17.5	39
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