

Daniel J Muller

List of Publications by Year in descending order

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279
papers

23,972
citations

4942

84
h-index

10708

138
g-index

286
all docs

286
docs citations

286
times ranked

20006
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.	3.5	842
2	Imaging modes of atomic force microscopy for application in molecular and cell biology. Nature Nanotechnology, 2017, 12, 295-307.	15.6	699
3	Atomic force microscopy as a multifunctional molecular toolbox in nanobiotechnology. Nature Nanotechnology, 2008, 3, 261-269.	15.6	678
4	Hydrostatic pressure and the actomyosin cortex drive mitotic cell rounding. Nature, 2011, 469, 226-230.	13.7	576
5	Observing single biomolecules at work with the atomic force microscope. , 2000, 7, 715-718.		506
6	Atomic force microscopy-based mechanobiology. Nature Reviews Physics, 2019, 1, 41-57.	11.9	500
7	Proton-powered turbine of a plant motor. Nature, 2000, 405, 418-419.	13.7	478
8	Single-cell force spectroscopy. Journal of Cell Science, 2008, 121, 1785-1791.	1.2	443
9	Force probing surfaces of living cells to molecular resolution. Nature Chemical Biology, 2009, 5, 383-390.	3.9	430
10	Multiparametric imaging of biological systems by force-distance curve-based AFM. Nature Methods, 2013, 10, 847-854.	9.0	378
11	Imaging and manipulation of biological structures with the AFM. Micron, 2002, 33, 385-397.	1.1	364
12	Electrostatically Balanced Subnanometer Imaging of Biological Specimens by Atomic Force Microscope. Biophysical Journal, 1999, 76, 1101-1111.	0.2	349
13	Atomic force microscopy: a nanoscopic window on the cell surface. Trends in Cell Biology, 2011, 21, 461-469.	3.6	329
14	Adsorption of Biological Molecules to a Solid Support for Scanning Probe Microscopy. Journal of Structural Biology, 1997, 119, 172-188.	1.3	293
15	Neuronal uptake and propagation of a rare phosphorylated high-molecular-weight tau derived from Alzheimer's disease brain. Nature Communications, 2015, 6, 8490.	5.8	283
16	Tapping-Mode Atomic Force Microscopy Produces Faithful High-Resolution Images of Protein Surfaces. Biophysical Journal, 1999, 77, 1150-1158.	0.2	256
17	Structure of the rhodopsin dimer: a working model for G-protein-coupled receptors. Current Opinion in Structural Biology, 2006, 16, 252-259.	2.6	253
18	Control of Directed Cell Migration In Vivo by Membrane-to-Cortex Attachment. PLoS Biology, 2010, 8, e1000544.	2.6	231

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19	AFM: A Nanotool in Membrane Biology. <i>Biochemistry</i> , 2008, 47, 7986-7998.	1.2	227
20	A new technical approach to quantify cell-cell adhesion forces by AFM. <i>Ultramicroscopy</i> , 2006, 106, 637-644.	0.8	225
21	Conformational changes in surface structures of isolated connexin 26 gap junctions. <i>EMBO Journal</i> , 2002, 21, 3598-3607.	3.5	221
22	Voltage and pH-induced channel closure of porin OmpF visualized by atomic force microscopy 1 Edited by W. Baumeister. <i>Journal of Molecular Biology</i> , 1999, 285, 1347-1351.	2.0	220
23	Atomic force microscopy and spectroscopy of native membrane proteins. <i>Nature Protocols</i> , 2007, 2, 2191-2197.	5.5	214
24	Kindlin-2 cooperates with talin to activate integrins and induces cell spreading by directly binding paxillin. <i>ELife</i> , 2016, 5, e10130.	2.8	213
25	Assembly of collagen into microribbons: effects of pH and electrolytes. <i>Journal of Structural Biology</i> , 2004, 148, 268-278.	1.3	208
26	Force-induced conformational change of bacteriorhodopsin. <i>Journal of Molecular Biology</i> , 1995, 249, 239-243.	2.0	188
27	Revealing Early Steps of $\alpha 1$ Integrin-mediated Adhesion to Collagen Type I by Using Single-Cell Force Spectroscopy. <i>Molecular Biology of the Cell</i> , 2007, 18, 1634-1644.	0.9	188
28	Bacterial Na ⁺ ATP synthase has an undecameric rotor. <i>EMBO Reports</i> , 2001, 2, 229-233.	2.0	185
29	Straight GDP-Tubulin Protofilaments Form in the Presence of Taxol. <i>Current Biology</i> , 2007, 17, 1765-1770.	1.8	179
30	Mechanism of membrane pore formation by human gasdermin ϵ . <i>EMBO Journal</i> , 2018, 37, .	3.5	178
31	The c 15 ring of the <i>Spirulina platensis</i> F ₁ /F ₀ ATP synthase: F ₁ /F ₀ symmetry mismatch is not obligatory. <i>EMBO Reports</i> , 2005, 6, 1040-1044.	2.0	173
32	Quantifying cellular adhesion to extracellular matrix components by single-cell force spectroscopy. <i>Nature Protocols</i> , 2010, 5, 1353-1361.	5.5	172
33	Nanomechanical mapping of first binding steps of a virus to animal cells. <i>Nature Nanotechnology</i> , 2017, 12, 177-183.	15.6	170
34	High resolution imaging of native biological sample surfaces using scanning probe microscopy. <i>Current Opinion in Structural Biology</i> , 1997, 7, 279-284.	2.6	163
35	Stability of Bacteriorhodopsin α -Helices and Loops Analyzed by Single-Molecule Force Spectroscopy. <i>Biophysical Journal</i> , 2002, 83, 3578-3588.	0.2	163
36	Measuring cell adhesion forces of primary gastrulating cells from zebrafish using atomic force microscopy. <i>Journal of Cell Science</i> , 2005, 118, 4199-4206.	1.2	161

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37	A practical guide to quantify cell adhesion using single-cell force spectroscopy. <i>Methods</i> , 2013, 60, 169-178.	1.9	161
38	From Images to Interactions: High-Resolution Phase Imaging in Tapping-Mode Atomic Force Microscopy. <i>Biophysical Journal</i> , 2001, 80, 3009-3018.	0.2	160
39	Observing structure, function and assembly of single proteins by AFM. <i>Progress in Biophysics and Molecular Biology</i> , 2002, 79, 1-43.	1.4	155
40	Five challenges to bringing single-molecule force spectroscopy into living cells. <i>Nature Methods</i> , 2011, 8, 123-127.	9.0	155
41	Quantification of surface tension and internal pressure generated by single mitotic cells. <i>Scientific Reports</i> , 2014, 4, 6213.	1.6	151
42	A glucose-starvation response regulates the diffusion of macromolecules. <i>ELife</i> , 2016, 5, .	2.8	151
43	Surface Tongue-and-groove Contours on Lens MIP Facilitate Cell-to-cell Adherence. <i>Journal of Molecular Biology</i> , 2000, 300, 779-789.	2.0	149
44	The fuzzy coat of pathological human Tau fibrils is a two-layered polyelectrolyte brush. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E313-21.	3.3	148
45	Observing growth steps of collagen self-assembly by time-lapse high-resolution atomic force microscopy. <i>Journal of Structural Biology</i> , 2006, 154, 232-245.	1.3	145
46	Atomic force microscopy-based characterization and design of biointerfaces. <i>Nature Reviews Materials</i> , 2017, 2, .	23.3	145
47	Surface structures of native bacteriorhodopsin depend on the molecular packing arrangement in the membrane 1 Edited by W. Baumeister. <i>Journal of Molecular Biology</i> , 1999, 285, 1903-1909.	2.0	142
48	Cholesterol increases kinetic, energetic, and mechanical stability of the human β_2 -adrenergic receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E3463-72.	3.3	142
49	Oligomer Formation of Tau Protein Hyperphosphorylated in Cells. <i>Journal of Biological Chemistry</i> , 2014, 289, 34389-34407.	1.6	132
50	Cdk1-dependent mitotic enrichment of cortical myosin II promotes cell rounding against confinement. <i>Nature Cell Biology</i> , 2015, 17, 148-159.	4.6	131
51	Analyzing focal adhesion structure by atomic force microscopy. <i>Journal of Cell Science</i> , 2005, 118, 5315-5323.	1.2	129
52	Deciphering Molecular Interactions of Native Membrane Proteins by Single-Molecule Force Spectroscopy. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2007, 36, 233-260.	18.3	124
53	Electrostatic Cell-Surface Repulsion Initiates Lumen Formation in Developing Blood Vessels. <i>Current Biology</i> , 2010, 20, 2003-2009.	1.8	124
54	Atomic force microscopy of native purple membrane. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2000, 1460, 27-38.	0.5	121

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55	The effect of unlocking RGD-motifs in collagen I on pre-osteoblast adhesion and differentiation. <i>Biomaterials</i> , 2010, 31, 2827-2835.	5.7	121
56	Rheology of the Active Cell Cortex in Mitosis. <i>Biophysical Journal</i> , 2016, 111, 589-600.	0.2	119
57	High-resolution atomic force microscopy and spectroscopy of native membrane proteins. <i>Reports on Progress in Physics</i> , 2011, 74, 086601.	8.1	118
58	Mechanism of allosteric regulation of β_2 -adrenergic receptor by cholesterol. <i>ELife</i> , 2016, 5, .	2.8	115
59	Unfolding pathways of native bacteriorhodopsin depend on temperature. <i>EMBO Journal</i> , 2003, 22, 5220-5229.	3.5	111
60	Hydrodynamic effects in fast AFM single-molecule force measurements. <i>European Biophysics Journal</i> , 2005, 34, 91-96.	1.2	111
61	Movement Directionality in Collective Migration of Germ Layer Progenitors. <i>Current Biology</i> , 2010, 20, 161-169.	1.8	111
62	Fibronectin-bound β_1 integrins sense load and signal to reinforce adhesion in less than a second. <i>Nature Materials</i> , 2017, 16, 1262-1270.	13.3	109
63	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
64	Impact of holdase chaperones Skp and SurA on the folding of β -barrel outer-membrane proteins. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 795-802.	3.6	108
65	Mapping flexible protein domains at subnanometer resolution with the atomic force microscope. <i>FEBS Letters</i> , 1998, 430, 105-111.	1.3	107
66	The Oligomeric State of c Rings from Cyanobacterial F-ATP Synthases Varies from 13 to 15. <i>Journal of Bacteriology</i> , 2007, 189, 5895-5902.	1.0	106
67	Imaging G protein-coupled receptors while quantifying their ligand-binding free-energy landscape. <i>Nature Methods</i> , 2015, 12, 845-851.	9.0	106
68	Cellular Remodelling of Individual Collagen Fibrils Visualized by Time-lapse AFM. <i>Journal of Molecular Biology</i> , 2007, 372, 594-607.	2.0	105
69	Scanning probe microscopy. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	103
70	Single-molecule studies of membrane proteins. <i>Current Opinion in Structural Biology</i> , 2006, 16, 489-495.	2.6	102
71	Mechanical Stimulation of Piezo1 Receptors Depends on Extracellular Matrix Proteins and Directionality of Force. <i>Nano Letters</i> , 2017, 17, 2064-2072.	4.5	100
72	Inertial picobalance reveals fast mass fluctuations in mammalian cells. <i>Nature</i> , 2017, 550, 500-505.	13.7	100

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73	Controlled Unfolding and Refolding of a Single Sodium-proton Antiporter using Atomic Force Microscopy. <i>Journal of Molecular Biology</i> , 2004, 340, 1143-1152.	2.0	99
74	Folding and Assembly of Proteorhodopsin. <i>Journal of Molecular Biology</i> , 2008, 376, 35-41.	2.0	96
75	Human Tau Isoforms Assemble into Ribbon-like Fibrils That Display Polymorphic Structure and Stability. <i>Journal of Biological Chemistry</i> , 2010, 285, 27302-27313.	1.6	96
76	Multiparametric high-resolution imaging of native proteins by force-distance curve-based AFM. <i>Nature Protocols</i> , 2014, 9, 1113-1130.	5.5	95
77	Atomic force microscopy: A forceful way with single molecules. <i>Current Biology</i> , 1999, 9, R133-R136.	1.8	94
78	Surface Topographies at Subnanometer-resolution Reveal Asymmetry and Sidedness of Aquaporin-1. <i>Journal of Molecular Biology</i> , 1996, 264, 907-918.	2.0	93
79	Characterizing Molecular Interactions in Different Bacteriorhodopsin Assemblies by Single-molecule Force Spectroscopy. <i>Journal of Molecular Biology</i> , 2006, 355, 640-650.	2.0	93
80	Bacteriorhodopsin Folds into the Membrane against an External Force. <i>Journal of Molecular Biology</i> , 2006, 357, 644-654.	2.0	93
81	Vertebrate Membrane Proteins: Structure, Function, and Insights from Biophysical Approaches. <i>Pharmacological Reviews</i> , 2008, 60, 43-78.	7.1	92
82	α -V-class integrins exert dual roles on α 5 β 1 integrins to strengthen adhesion to fibronectin. <i>Nature Communications</i> , 2017, 8, 14348.	5.8	92
83	Imaging the Electrostatic Potential of Transmembrane Channels: Atomic Probe Microscopy of OmpF Porin. <i>Biophysical Journal</i> , 2002, 82, 1667-1676.	0.2	90
84	Imaging and Quantifying Chemical and Physical Properties of Native Proteins at Molecular Resolution by Force-Volume AFM. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 12103-12108.	7.2	90
85	Engineering rotor ring stoichiometries in the ATP synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1599-608.	3.3	89
86	Fourteen Protomers Compose the Oligomer III of the Proton-rotor in Spinach Chloroplast ATP Synthase. <i>Journal of Molecular Biology</i> , 2003, 333, 337-344.	2.0	88
87	Ligand-Specific Interactions Modulate Kinetic, Energetic, and Mechanical Properties of the Human β 2 Adrenergic Receptor. <i>Structure</i> , 2012, 20, 1391-1402.	1.6	87
88	Galectin-3 Regulates Integrin α 2 β 1-mediated Adhesion to Collagen-I and -IV. <i>Journal of Biological Chemistry</i> , 2008, 283, 32264-32272.	1.6	86
89	Locating ligand binding and activation of a single antiporter. <i>EMBO Reports</i> , 2005, 6, 668-674.	2.0	85
90	Probing the Energy Landscape of the Membrane Protein Bacteriorhodopsin. <i>Structure</i> , 2004, 12, 871-879.	1.6	80

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91	Structural Changes in Native Membrane Proteins Monitored at Subnanometer Resolution with the Atomic Force Microscope: A Review. <i>Journal of Structural Biology</i> , 1997, 119, 149-157.	1.3	79
92	The c13 Ring from a Thermoalkaliphilic ATP Synthase Reveals an Extended Diameter Due to a Special Structural Region. <i>Journal of Molecular Biology</i> , 2009, 388, 611-618.	2.0	79
93	Mitotic cells contract actomyosin cortex and generate pressure to round against or escape epithelial confinement. <i>Nature Communications</i> , 2015, 6, 8872.	5.8	79
94	Observing Membrane Protein Diffusion at Subnanometer Resolution. <i>Journal of Molecular Biology</i> , 2003, 327, 925-930.	2.0	78
95	Stages and Conformations of the Tau Repeat Domain during Aggregation and Its Effect on Neuronal Toxicity. <i>Journal of Biological Chemistry</i> , 2014, 289, 20318-20332.	1.6	77
96	ATP synthase: constrained stoichiometry of the transmembrane rotor. <i>FEBS Letters</i> , 2001, 504, 219-222.	1.3	76
97	Contributions of Galectin-3 and -9 to Epithelial Cell Adhesion Analyzed by Single Cell Force Spectroscopy. <i>Journal of Biological Chemistry</i> , 2007, 282, 29375-29383.	1.6	76
98	Single-Cell Force Spectroscopy, an Emerging Tool to Quantify Cell Adhesion to Biomaterials. <i>Tissue Engineering - Part B: Reviews</i> , 2014, 20, 40-55.	2.5	76
99	Mechanical control of mitotic progression in single animal cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11258-11263.	3.3	76
100	The central plug in the reconstituted undecameric c cylinder of a bacterial ATP synthase consists of phospholipids. <i>FEBS Letters</i> , 2001, 505, 353-356.	1.3	75
101	Membrane perforation by the pore-forming toxin pneumolysin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13352-13357.	3.3	75
102	Directly Observing the Lipid-Dependent Self-Assembly and Pore-Forming Mechanism of the Cytolytic Toxin Listeriolysin O. <i>Nano Letters</i> , 2015, 15, 6965-6973.	4.5	74
103	Conformational Adaptability of Red β 2 during DNA Annealing and Implications for Its Structural Relationship with Rad52. <i>Journal of Molecular Biology</i> , 2009, 391, 586-598.	2.0	73
104	SAS-6 engineering reveals interdependence between cartwheel and microtubules in determining centriole Architecture. <i>Nature Cell Biology</i> , 2016, 18, 393-403.	4.6	73
105	Studying Integrin-Mediated Cell Adhesion at the Single-Molecule Level Using AFM Force Spectroscopy. <i>Science's STKE: Signal Transduction Knowledge Environment</i> , 2007, 2007, p15.	4.1	72
106	New frontiers in atomic force microscopy: analyzing interactions from single-molecules to cells. <i>Current Opinion in Biotechnology</i> , 2009, 20, 4-13.	3.3	72
107	Detecting Molecular Interactions that Stabilize Native Bovine Rhodopsin. <i>Journal of Molecular Biology</i> , 2006, 358, 255-269.	2.0	71
108	Aminosulfonate Modulated pH-induced Conformational Changes in Connexin26 Hemichannels. <i>Journal of Biological Chemistry</i> , 2007, 282, 8895-8904.	1.6	71

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109	Surface analysis of the photosystem I complex by electron and atomic force microscopy. <i>Journal of Molecular Biology</i> , 1998, 283, 83-94.	2.0	70
110	Sampling the conformational space of membrane protein surfaces with the AFM. <i>European Biophysics Journal</i> , 2002, 31, 172-178.	1.2	70
111	A Bond for a Lifetime: Employing Membrane Nanotubes from Living Cells to Determine Receptor-Ligand Kinetics. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9775-9777.	7.2	70
112	YidC assists the stepwise and stochastic folding of membrane proteins. <i>Nature Chemical Biology</i> , 2016, 12, 911-917.	3.9	70
113	Molecular Force Modulation Spectroscopy Revealing the Dynamic Response of Single Bacteriorhodopsins. <i>Biophysical Journal</i> , 2005, 88, 1423-1431.	0.2	69
114	Multiparametric Atomic Force Microscopy Imaging of Biomolecular and Cellular Systems. <i>Accounts of Chemical Research</i> , 2017, 50, 924-931.	7.6	68
115	Single Proteins Observed by Atomic Force Microscopy. <i>Single Molecules</i> , 2001, 2, 59-67.	1.7	65
116	Creating Ultrathin Nanoscopic Collagen Matrices For Biological And Biotechnological Applications. <i>Small</i> , 2007, 3, 956-963.	5.2	65
117	Force nanoscopy of living cells. <i>Current Biology</i> , 2011, 21, R212-R216.	1.8	65
118	Wedged AFM-cantilevers for parallel plate cell mechanics. <i>Methods</i> , 2013, 60, 186-194.	1.9	65
119	The fibronectin synergy site re-enforces cell adhesion and mediates a crosstalk between integrin classes. <i>ELife</i> , 2017, 6, .	2.8	65
120	Identification and Structure of a Putative Ca ²⁺ -binding Domain at the C Terminus of AQP1. <i>Journal of Molecular Biology</i> , 2002, 318, 1381-1394.	2.0	64
121	Determining molecular forces that stabilize human aquaporin-1. <i>Journal of Structural Biology</i> , 2003, 142, 369-378.	1.3	64
122	Identifying and quantifying two ligand-binding sites while imaging native human membrane receptors by AFM. <i>Nature Communications</i> , 2015, 6, 8857.	5.8	64
123	Protein-enriched outer membrane vesicles as a native platform for outer membrane protein studies. <i>Communications Biology</i> , 2018, 1, 23.	2.0	63
124	Stabilizing Effect of Zn ²⁺ in Native Bovine Rhodopsin. <i>Journal of Biological Chemistry</i> , 2007, 282, 11377-11385.	1.6	61
125	Deciphering Teneurin Domains That Facilitate Cellular Recognition, Cell-Cell Adhesion, and Neurite Outgrowth Using Atomic Force Microscopy-Based Single-Cell Force Spectroscopy. <i>Nano Letters</i> , 2013, 13, 2937-2946.	4.5	61
126	Force spectroscopy of single cells using atomic force microscopy. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	61

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127	Charting the Surfaces of the Purple Membrane. <i>Journal of Structural Biology</i> , 1999, 128, 243-249.	1.3	60
128	Action of the Hsp70 chaperone system observed with single proteins. <i>Nature Communications</i> , 2015, 6, 6307.	5.8	58
129	Combining confocal and atomic force microscopy to quantify single-virus binding to mammalian cell surfaces. <i>Nature Protocols</i> , 2017, 12, 2275-2292.	5.5	58
130	Neurons differentiate magnitude and location of mechanical stimuli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 848-856.	3.3	58
131	Biomolecular imaging using atomic force microscopy. <i>Trends in Biotechnology</i> , 2002, 20, S45-S49.	4.9	55
132	Probing Origins of Molecular Interactions Stabilizing the Membrane Proteins Halorhodopsin and Bacteriorhodopsin. <i>Structure</i> , 2005, 13, 235-242.	1.6	54
133	Nanomechanical Properties of Proteins and Membranes Depend on Loading Rate and Electrostatic Interactions. <i>ACS Nano</i> , 2013, 7, 2642-2650.	7.3	54
134	Point Mutations in Membrane Proteins Reshape Energy Landscape and Populate Different Unfolding Pathways. <i>Journal of Molecular Biology</i> , 2008, 376, 1076-1090.	2.0	52
135	Genome-scale single-cell mechanical phenotyping reveals disease-related genes involved in mitotic rounding. <i>Nature Communications</i> , 2017, 8, 1266.	5.8	52
136	Structural evidence for a constant c11 ring stoichiometry in the sodium F-ATP synthase. <i>FEBS Journal</i> , 2005, 272, 5474-5483.	2.2	51
137	Transmembrane Helices Have Rough Energy Surfaces. <i>Journal of the American Chemical Society</i> , 2007, 129, 246-247.	6.6	50
138	Preparation techniques for the observation of native biological systems with the atomic force microscope. <i>Biosensors and Bioelectronics</i> , 1997, 12, 867-877.	5.3	49
139	Products of the Parkinson's disease-related glyoxalase DJ-1, D-lactate and glycolate, support mitochondrial membrane potential and neuronal survival. <i>Biology Open</i> , 2014, 3, 777-784.	0.6	49
140	Observing Folding Pathways and Kinetics of a Single Sodium-proton Antiporter from <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 2006, 355, 2-8.	2.0	48
141	Strategies to prepare and characterize native membrane proteins and protein membranes by AFM. <i>Current Opinion in Colloid and Interface Science</i> , 2008, 13, 338-350.	3.4	48
142	An intermediate step in the evolution of ATPases â€“ a hybrid F ₀ â€“V ₀ rotor in a bacterial Na ⁺ F ₁ F ₀ ATP synthase. <i>FEBS Journal</i> , 2008, 275, 1999-2007.	2.2	48
143	pH-Induced Conformational Change of the Î²-Barrel-Forming Protein OmpC Reconstituted into Native <i>E. coli</i> Lipids. <i>Journal of Molecular Biology</i> , 2010, 396, 610-616.	2.0	48
144	Localizing Chemical Groups while Imaging Single Native Proteins by High-Resolution Atomic Force Microscopy. <i>Nano Letters</i> , 2014, 14, 2957-2964.	4.5	48

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145	Gating of the MlotiK1 potassium channel involves large rearrangements of the cyclic nucleotide-binding domains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20802-20807.	3.3	47
146	Single-Molecule Force Spectroscopy from Nanodiscs: An Assay to Quantify Folding, Stability, and Interactions of Native Membrane Proteins. <i>ACS Nano</i> , 2012, 6, 961-971.	7.3	47
147	Out but Not In: The Large Transmembrane β -Barrel Protein FhuA Unfolds but Cannot Refold via β -Hairpins. <i>Structure</i> , 2012, 20, 2185-2190.	1.6	47
148	Kinetic, Energetic, and Mechanical Differences between Dark-State Rhodopsin and Opsin. <i>Structure</i> , 2013, 21, 426-437.	1.6	47
149	Free Energy of Membrane Protein Unfolding Derived from Single-Molecule Force Measurements. <i>Biophysical Journal</i> , 2007, 93, 930-937.	0.2	45
150	Tracking mechanics and volume of globular cells with atomic force microscopy using a constant-height clamp. <i>Nature Protocols</i> , 2012, 7, 143-154.	5.5	45
151	Isolation and characterization of gap junctions from tissue culture cells 1 Edited by W. Baumeister. <i>Journal of Molecular Biology</i> , 2002, 315, 587-600.	2.0	44
152	Competing Interactions Stabilize Pro- and Anti-aggregant Conformations of Human Tau. <i>Journal of Biological Chemistry</i> , 2011, 286, 20512-20524.	1.6	44
153	Creating nanoscopic collagen matrices using atomic force microscopy. <i>Microscopy Research and Technique</i> , 2004, 64, 435-440.	1.2	43
154	From Valleys to Ridges: Exploring the Dynamic Energy Landscape of Single Membrane Proteins. <i>ChemPhysChem</i> , 2008, 9, 954-966.	1.0	43
155	Mechanical Properties of Bovine Rhodopsin and Bacteriorhodopsin: Possible Roles in Folding and Function. <i>Langmuir</i> , 2008, 24, 1330-1337.	1.6	43
156	Probing the Interactions of Carboxy-atractyloside and Attractyloside with the Yeast Mitochondrial ADP/ATP Carrier. <i>Structure</i> , 2010, 18, 39-46.	1.6	42
157	Differentiating Ligand and Inhibitor Interactions of a Single Antiporter. <i>Journal of Molecular Biology</i> , 2006, 362, 925-932.	2.0	41
158	Substrate-induced changes in the structural properties of LacY. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E1571-80.	3.3	40
159	Nonlinear mechanics of lamin filaments and the meshwork topology build an emergent nuclear lamina. <i>Nature Communications</i> , 2020, 11, 6205.	5.8	40
160	Actin microridges characterized by laser scanning confocal and atomic force microscopy. <i>FEBS Letters</i> , 2005, 579, 2001-2008.	1.3	39
161	Dynamic coupling of ALCAM to the actin cortex strengthens cell adhesion to CD6. <i>Journal of Cell Science</i> , 2014, 127, 1595-606.	1.2	39
162	Unraveling the Pore-Forming Steps of Pneumolysin from <i>Streptococcus pneumoniae</i> . <i>Nano Letters</i> , 2016, 16, 7915-7924.	4.5	39

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