# Daniel J Muller

#### List of Publications by Citations

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#	Paper	IF	Citations
279	Atomic force microscopy as a multifunctional molecular toolbox in nanobiotechnology. <i>Nature Nanotechnology</i> , <b>2008</b> , 3, 261-9	28.7	568
278	GSDMD membrane pore formation constitutes the mechanism of pyroptotic cell death. <i>EMBO Journal</i> , <b>2016</b> , 35, 1766-78	13	521
277	Imaging modes of atomic force microscopy for application in molecular and cell biology. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 295-307	28.7	494
276	Hydrostatic pressure and the actomyosin cortex drive mitotic cell rounding. <i>Nature</i> , <b>2011</b> , 469, 226-30	50.4	453
275	Structural biology. Proton-powered turbine of a plant motor. <i>Nature</i> , <b>2000</b> , 405, 418-9	50.4	439
274	Observing single biomolecules at work with the atomic force microscope. <i>Nature Structural Biology</i> , <b>2000</b> , 7, 715-8		434
273	Single-cell force spectroscopy. <i>Journal of Cell Science</i> , <b>2008</b> , 121, 1785-91	5.3	380
272	Force probing surfaces of living cells to molecular resolution. <i>Nature Chemical Biology</i> , <b>2009</b> , 5, 383-90	11.7	371
271	Imaging and manipulation of biological structures with the AFM. <i>Micron</i> , <b>2002</b> , 33, 385-97	2.3	324
270	Electrostatically balanced subnanometer imaging of biological specimens by atomic force microscope. <i>Biophysical Journal</i> , <b>1999</b> , 76, 1101-11	2.9	318
269	Multiparametric imaging of biological systems by force-distance curve-based AFM. <i>Nature Methods</i> , <b>2013</b> , 10, 847-54	21.6	317
268	Adsorption of biological molecules to a solid support for scanning probe microscopy. <i>Journal of Structural Biology</i> , <b>1997</b> , 119, 172-88	3.4	282
267	Atomic force microscopy: a nanoscopic window on the cell surface. <i>Trends in Cell Biology</i> , <b>2011</b> , 21, 461-	<b>-9</b> 18.3	279
266	Atomic force microscopy-based mechanobiology. <i>Nature Reviews Physics</i> , <b>2019</b> , 1, 41-57	23.6	274
265	Structure of the rhodopsin dimer: a working model for G-protein-coupled receptors. <i>Current Opinion in Structural Biology</i> , <b>2006</b> , 16, 252-9	8.1	229
264	Tapping-mode atomic force microscopy produces faithful high-resolution images of protein surfaces. <i>Biophysical Journal</i> , <b>1999</b> , 77, 1150-8	2.9	223
263	Conformational changes in surface structures of isolated connexin 26 gap junctions. <i>EMBO Journal</i> , <b>2002</b> , 21, 3598-607	13	209

#### (2002-1999)

262	Voltage and pH-induced channel closure of porin OmpF visualized by atomic force microscopy. Journal of Molecular Biology, <b>1999</b> , 285, 1347-51	6.5	205
261	Neuronal uptake and propagation of a rare phosphorylated high-molecular-weight tau derived from Alzheimerß disease brain. <i>Nature Communications</i> , <b>2015</b> , 6, 8490	17.4	204
260	A new technical approach to quantify cell-cell adhesion forces by AFM. <i>Ultramicroscopy</i> , <b>2006</b> , 106, 637	-4311	195
259	Assembly of collagen into microribbons: effects of pH and electrolytes. <i>Journal of Structural Biology</i> , <b>2004</b> , 148, 268-78	3.4	191
258	AFM: a nanotool in membrane biology. <i>Biochemistry</i> , <b>2008</b> , 47, 7986-98	3.2	186
257	Control of directed cell migration in vivo by membrane-to-cortex attachment. <i>PLoS Biology</i> , <b>2010</b> , 8, e1	090/54	4 185
256	Atomic force microscopy and spectroscopy of native membrane proteins. <i>Nature Protocols</i> , <b>2007</b> , 2, 219	<b>91:37.</b> 8	178
255	Force-induced conformational change of bacteriorhodopsin. <i>Journal of Molecular Biology</i> , <b>1995</b> , 249, 239-43	6.5	174
254	Bacterial Na(+)-ATP synthase has an undecameric rotor. <i>EMBO Reports</i> , <b>2001</b> , 2, 229-33	6.5	170
253	Revealing early steps of alpha2beta1 integrin-mediated adhesion to collagen type I by using single-cell force spectroscopy. <i>Molecular Biology of the Cell</i> , <b>2007</b> , 18, 1634-44	3.5	165
252	High resolution imaging of native biological sample surfaces using scanning probe microscopy. <i>Current Opinion in Structural Biology</i> , <b>1997</b> , 7, 279-84	8.1	156
251	Kindlin-2 cooperates with talin to activate integrins and induces cell spreading by directly binding paxillin. <i>ELife</i> , <b>2016</b> , 5, e10130	8.9	155
250	The c15 ring of the Spirulina platensis F-ATP synthase: F1/F0 symmetry mismatch is not obligatory. <i>EMBO Reports</i> , <b>2005</b> , 6, 1040-4	6.5	150
249	Stability of bacteriorhodopsin alpha-helices and loops analyzed by single-molecule force spectroscopy. <i>Biophysical Journal</i> , <b>2002</b> , 83, 3578-88	2.9	150
248	Straight GDP-tubulin protofilaments form in the presence of taxol. <i>Current Biology</i> , <b>2007</b> , 17, 1765-70	6.3	147
247	Measuring cell adhesion forces of primary gastrulating cells from zebrafish using atomic force microscopy. <i>Journal of Cell Science</i> , <b>2005</b> , 118, 4199-206	5.3	143
246	Surface tongue-and-groove contours on lens MIP facilitate cell-to-cell adherence. <i>Journal of Molecular Biology</i> , <b>2000</b> , 300, 779-89	6.5	139
245	Observing structure, function and assembly of single proteins by AFM. <i>Progress in Biophysics and Molecular Biology</i> , <b>2002</b> , 79, 1-43	4.7	138

244	Quantifying cellular adhesion to extracellular matrix components by single-cell force spectroscopy. <i>Nature Protocols</i> , <b>2010</b> , 5, 1353-61	18.8	137
243	Five challenges to bringing single-molecule force spectroscopy into living cells. <i>Nature Methods</i> , <b>2011</b> , 8, 123-7	21.6	136
242	From images to interactions: high-resolution phase imaging in tapping-mode atomic force microscopy. <i>Biophysical Journal</i> , <b>2001</b> , 80, 3009-18	2.9	132
241	Observing growth steps of collagen self-assembly by time-lapse high-resolution atomic force microscopy. <i>Journal of Structural Biology</i> , <b>2006</b> , 154, 232-45	3.4	128
240	A practical guide to quantify cell adhesion using single-cell force spectroscopy. <i>Methods</i> , <b>2013</b> , 60, 169-	<b>78</b> .6	127
239	Nanomechanical mapping of first binding steps of a virus to animal cells. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 177-183	28.7	127
238	Surface structures of native bacteriorhodopsin depend on the molecular packing arrangement in the membrane. <i>Journal of Molecular Biology</i> , <b>1999</b> , 285, 1903-9	6.5	127
237	Cholesterol increases kinetic, energetic, and mechanical stability of the human <b>1</b> -adrenergic receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, E3463-72	11.5	121
236	Mechanism of membrane pore formation by human gasdermin-D. <i>EMBO Journal</i> , <b>2018</b> , 37,	13	114
235	Deciphering molecular interactions of native membrane proteins by single-molecule force spectroscopy. <i>Annual Review of Biophysics and Biomolecular Structure</i> , <b>2007</b> , 36, 233-60		113
234	Analyzing focal adhesion structure by atomic force microscopy. <i>Journal of Cell Science</i> , <b>2005</b> , 118, 5315	<b>-25</b> 33	110
234	Analyzing focal adhesion structure by atomic force microscopy. <i>Journal of Cell Science</i> , <b>2005</b> , 118, 5315.  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> , <b>2013</b> , 110, E313-21		110
	The fuzzy coat of pathological human Tau fibrils is a two-layered polyelectrolyte brush. <i>Proceedings</i>		
233	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> , <b>2013</b> , 110, E313-21  Electrostatic cell-surface repulsion initiates lumen formation in developing blood vessels. <i>Current</i>	11.5	109
233	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> , <b>2013</b> , 110, E313-21  Electrostatic cell-surface repulsion initiates lumen formation in developing blood vessels. <i>Current Biology</i> , <b>2010</b> , 20, 2003-9  Quantification of surface tension and internal pressure generated by single mitotic cells. <i>Scientific</i>	11.5	109
233 232 231	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> , <b>2013</b> , 110, E313-21  Electrostatic cell-surface repulsion initiates lumen formation in developing blood vessels. <i>Current Biology</i> , <b>2010</b> , 20, 2003-9  Quantification of surface tension and internal pressure generated by single mitotic cells. <i>Scientific Reports</i> , <b>2014</b> , 4, 6213  Atomic force microscopy of native purple membrane. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> ,	11.5 6.3 4.9	109 108 105
<ul><li>233</li><li>232</li><li>231</li><li>230</li></ul>	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> , <b>2013</b> , 110, E313-21  Electrostatic cell-surface repulsion initiates lumen formation in developing blood vessels. <i>Current Biology</i> , <b>2010</b> , 20, 2003-9  Quantification of surface tension and internal pressure generated by single mitotic cells. <i>Scientific Reports</i> , <b>2014</b> , 4, 6213  Atomic force microscopy of native purple membrane. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2000</b> , 1460, 27-38  Hydrodynamic effects in fast AFM single-molecule force measurements. <i>European Biophysics</i>	11.5 6.3 4.9 4.6	109 108 105

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226	Unfolding pathways of native bacteriorhodopsin depend on temperature. EMBO Journal, 2003, 22, 522	0193	100
225	Oligomer formation of tau protein hyperphosphorylated in cells. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 34389-407	5.4	99
224	The effect of unlocking RGD-motifs in collagen I on pre-osteoblast adhesion and differentiation. <i>Biomaterials</i> , <b>2010</b> , 31, 2827-35	15.6	98
223	Mapping flexible protein domains at subnanometer resolution with the atomic force microscope. <i>FEBS Letters</i> , <b>1998</b> , 430, 105-11	3.8	97
222	Single-molecule studies of membrane proteins. Current Opinion in Structural Biology, <b>2006</b> , 16, 489-95	8.1	96
221	Atomic force microscopy-based characterization and design of biointerfaces. <i>Nature Reviews Materials</i> , <b>2017</b> , 2,	73-3	95
220	A glucose-starvation response regulates the diffusion of macromolecules. <i>ELife</i> , <b>2016</b> , 5,	8.9	93
219	The oligomeric state of c rings from cyanobacterial F-ATP synthases varies from 13 to 15. <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 5895-902	3.5	92
218	Cellular remodelling of individual collagen fibrils visualized by time-lapse AFM. <i>Journal of Molecular Biology</i> , <b>2007</b> , 372, 594-607	6.5	92
217	Impact of holdase chaperones Skp and SurA on the folding of Ebarrel outer-membrane proteins. <i>Nature Structural and Molecular Biology</i> , <b>2015</b> , 22, 795-802	17.6	90
216	Controlled unfolding and refolding of a single sodium-proton antiporter using atomic force microscopy. <i>Journal of Molecular Biology</i> , <b>2004</b> , 340, 1143-52	6.5	90
215	Bacteriorhodopsin folds into the membrane against an external force. <i>Journal of Molecular Biology</i> , <b>2006</b> , 357, 644-54	6.5	89
214	Surface topographies at subnanometer-resolution reveal asymmetry and sidedness of aquaporin-1. Journal of Molecular Biology, <b>1996</b> , 264, 907-18	6.5	88
213	Characterizing molecular interactions in different bacteriorhodopsin assemblies by single-molecule force spectroscopy. <i>Journal of Molecular Biology</i> , <b>2006</b> , 355, 640-50	6.5	87
212	Movement directionality in collective migration of germ layer progenitors. <i>Current Biology</i> , <b>2010</b> , 20, 161-9	6.3	85
211	Imaging G protein-coupled receptors while quantifying their ligand-binding free-energy landscape. <i>Nature Methods</i> , <b>2015</b> , 12, 845-851	21.6	84
210	Multiparametric high-resolution imaging of native proteins by force-distance curve-based AFM. <i>Nature Protocols</i> , <b>2014</b> , 9, 1113-30	18.8	83
209	Human Tau isoforms assemble into ribbon-like fibrils that display polymorphic structure and stability. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 27302-27313	5.4	83

208	Vertebrate membrane proteins: structure, function, and insights from biophysical approaches. <i>Pharmacological Reviews</i> , <b>2008</b> , 60, 43-78	22.5	83
207	Folding and assembly of proteorhodopsin. <i>Journal of Molecular Biology</i> , <b>2008</b> , 376, 35-41	6.5	82
206	Fourteen protomers compose the oligomer III of the proton-rotor in spinach chloroplast ATP synthase. <i>Journal of Molecular Biology</i> , <b>2003</b> , 333, 337-44	6.5	82
205	Imaging and quantifying chemical and physical properties of native proteins at molecular resolution by force-volume AFM. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 12103-8	16.4	80
204	Atomic force microscopy: a forceful way with single molecules. <i>Current Biology</i> , <b>1999</b> , 9, R133-6	6.3	80
203	Ligand-specific interactions modulate kinetic, energetic, and mechanical properties of the human 🛮 adrenergic receptor. <i>Structure</i> , <b>2012</b> , 20, 1391-402	5.2	79
202	Imaging the electrostatic potential of transmembrane channels: atomic probe microscopy of OmpF porin. <i>Biophysical Journal</i> , <b>2002</b> , 82, 1667-76	2.9	79
201	Mechanism of allosteric regulation of Eadrenergic receptor by cholesterol. <i>ELife</i> , <b>2016</b> , 5,	8.9	78
200	Locating ligand binding and activation of a single antiporter. EMBO Reports, 2005, 6, 668-74	6.5	77
199	Rheology of the Active Cell Cortex in Mitosis. <i>Biophysical Journal</i> , <b>2016</b> , 111, 589-600	2.9	76
198	Structural changes in native membrane proteins monitored at subnanometer resolution with the atomic force microscope: a review. <i>Journal of Structural Biology</i> , <b>1997</b> , 119, 149-57	3.4	74
197	Probing the energy landscape of the membrane protein bacteriorhodopsin. <i>Structure</i> , <b>2004</b> , 12, 871-9	5.2	74
196	Fibronectin-bound BII integrins sense load and signal to reinforce adhesion in less than a second. <i>Nature Materials</i> , <b>2017</b> , 16, 1262-1270	27	72
195	Galectin-3 regulates integrin alpha2beta1-mediated adhesion to collagen-I and -IV. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 32264-72	5.4	72
194	Contributions of galectin-3 and -9 to epithelial cell adhesion analyzed by single cell force spectroscopy. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 29375-83	5.4	72
193	Engineering rotor ring stoichiometries in the ATP synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, E1599-608	11.5	70
192	The central plug in the reconstituted undecameric c cylinder of a bacterial ATP synthase consists of phospholipids. <i>FEBS Letters</i> , <b>2001</b> , 505, 353-6	3.8	69
191	☑-class integrins exert dual roles on 📶 integrins to strengthen adhesion to fibronectin. <i>Nature Communications</i> , <b>2017</b> , 8, 14348	17.4	68

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190	Observing membrane protein diffusion at subnanometer resolution. <i>Journal of Molecular Biology</i> , <b>2003</b> , 327, 925-30	6.5	67
189	A bond for a lifetime: employing membrane nanotubes from living cells to determine receptor-ligand kinetics. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 9775-7	16.4	64
188	Aminosulfonate modulated pH-induced conformational changes in connexin26 hemichannels. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 8895-904	5.4	64
187	Single-cell force spectroscopy, an emerging tool to quantify cell adhesion to biomaterials. <i>Tissue Engineering - Part B: Reviews</i> , <b>2014</b> , 20, 40-55	7.9	63
186	Force nanoscopy of living cells. <i>Current Biology</i> , <b>2011</b> , 21, R212-6	6.3	63
185	Studying integrin-mediated cell adhesion at the single-molecule level using AFM force spectroscopy. <i>Science&amp; STKE: Signal Transduction Knowledge Environment</i> , <b>2007</b> , 2007, pl5		63
184	Sampling the conformational space of membrane protein surfaces with the AFM. <i>European Biophysics Journal</i> , <b>2002</b> , 31, 172-8	1.9	63
183	ATP synthase: constrained stoichiometry of the transmembrane rotor. FEBS Letters, 2001, 504, 219-22	3.8	63
182	Inertial picobalance reveals fast mass fluctuations in mammalian cells. <i>Nature</i> , <b>2017</b> , 550, 500-505	50.4	62
181	Surface analysis of the photosystem I complex by electron and atomic force microscopy. <i>Journal of Molecular Biology</i> , <b>1998</b> , 283, 83-94	6.5	62
180	New frontiers in atomic force microscopy: analyzing interactions from single-molecules to cells. <i>Current Opinion in Biotechnology</i> , <b>2009</b> , 20, 4-13	11.4	61
179	Detecting molecular interactions that stabilize native bovine rhodopsin. <i>Journal of Molecular Biology</i> , <b>2006</b> , 358, 255-69	6.5	61
178	Identification and structure of a putative Ca2+-binding domain at the C terminus of AQP1. <i>Journal of Molecular Biology</i> , <b>2002</b> , 318, 1381-94	6.5	61
177	Single Proteins Observed by Atomic Force Microscopy. <i>Single Molecules</i> , <b>2001</b> , 2, 59-67		60
176	Directly Observing the Lipid-Dependent Self-Assembly and Pore-Forming Mechanism of the Cytolytic Toxin Listeriolysin O. <i>Nano Letters</i> , <b>2015</b> , 15, 6965-73	11.5	59
175	The c13 ring from a thermoalkaliphilic ATP synthase reveals an extended diameter due to a special structural region. <i>Journal of Molecular Biology</i> , <b>2009</b> , 388, 611-8	6.5	59
174	Creating ultrathin nanoscopic collagen matrices for biological and biotechnological applications. <i>Small</i> , <b>2007</b> , 3, 956-63	11	59
173	Molecular force modulation spectroscopy revealing the dynamic response of single bacteriorhodopsins. <i>Biophysical Journal</i> , <b>2005</b> , 88, 1423-31	2.9	57

172	Stages and conformations of the Tau repeat domain during aggregation and its effect on neuronal toxicity. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 20318-32	5.4	56
171	Determining molecular forces that stabilize human aquaporin-1. <i>Journal of Structural Biology</i> , <b>2003</b> , 142, 369-78	3.4	56
170	SAS-6 engineering reveals interdependence between cartwheel and microtubules in determining centriole architecture. <i>Nature Cell Biology</i> , <b>2016</b> , 18, 393-403	23.4	55
169	Charting the surfaces of the purple membrane. <i>Journal of Structural Biology</i> , <b>1999</b> , 128, 243-9	3.4	55
168	Mechanical Stimulation of Piezo1 Receptors Depends on Extracellular Matrix Proteins and Directionality of Force. <i>Nano Letters</i> , <b>2017</b> , 17, 2064-2072	11.5	54
167	Mitotic cells contract actomyosin cortex and generate pressure to round against or escape epithelial confinement. <i>Nature Communications</i> , <b>2015</b> , 6, 8872	17.4	54
166	Mechanical control of mitotic progression in single animal cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 11258-63	11.5	53
165	Identifying and quantifying two ligand-binding sites while imaging native human membrane receptors by AFM. <i>Nature Communications</i> , <b>2015</b> , 6, 8857	17.4	53
164	Stabilizing effect of Zn2+ in native bovine rhodopsin. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 11377-	8 <b>5</b> .4	53
163	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> , <b>2013</b> , 13, 2937-46	11.5	52
162	Biomolecular imaging using atomic force microscopy. <i>Trends in Biotechnology</i> , <b>2002</b> , 20, S45-S49	15.1	52
161	YidC assists the stepwise and stochastic folding of membrane proteins. <i>Nature Chemical Biology</i> , <b>2016</b> , 12, 911-917	11.7	52
160	Wedged AFM-cantilevers for parallel plate cell mechanics. <i>Methods</i> , <b>2013</b> , 60, 186-94	4.6	51
159	Multiparametric Atomic Force Microscopy Imaging of Biomolecular and Cellular Systems. <i>Accounts of Chemical Research</i> , <b>2017</b> , 50, 924-931	24.3	50
158	Conformational adaptability of Redbeta during DNA annealing and implications for its structural relationship with Rad52. <i>Journal of Molecular Biology</i> , <b>2009</b> , 391, 586-98	6.5	50
157	Probing origins of molecular interactions stabilizing the membrane proteins halorhodopsin and bacteriorhodopsin. <i>Structure</i> , <b>2005</b> , 13, 235-42	5.2	50
156	Membrane perforation by the pore-forming toxin pneumolysin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 13352-13357	11.5	49
155	Point mutations in membrane proteins reshape energy landscape and populate different unfolding pathways. <i>Journal of Molecular Biology</i> , <b>2008</b> , 376, 1076-90	6.5	48

# (2017-2008)

154	An intermediate step in the evolution of ATPases: a hybrid F(0)-V(0) rotor in a bacterial Na(+) F(1)F(0) ATP synthase. <i>FEBS Journal</i> , <b>2008</b> , 275, 1999-2007	5.7	48	
153	Transmembrane helices have rough energy surfaces. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 246-7	16.4	47	
152	Action of the Hsp70 chaperone system observed with single proteins. <i>Nature Communications</i> , <b>2015</b> , 6, 6307	17.4	46	
151	pH-induced conformational change of the beta-barrel-forming protein OmpG reconstituted into native E. coli lipids. <i>Journal of Molecular Biology</i> , <b>2010</b> , 396, 610-6	6.5	46	
150	Observing folding pathways and kinetics of a single sodium-proton antiporter from Escherichia coli. <i>Journal of Molecular Biology</i> , <b>2006</b> , 355, 2-8	6.5	46	
149	Nanomechanical properties of proteins and membranes depend on loading rate and electrostatic interactions. <i>ACS Nano</i> , <b>2013</b> , 7, 2642-50	16.7	45	
148	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> , <b>2011</b> , 108, 20802-7	11.5	45	
147	Single-molecule force spectroscopy from nanodiscs: an assay to quantify folding, stability, and interactions of native membrane proteins. <i>ACS Nano</i> , <b>2012</b> , 6, 961-71	16.7	44	
146	Strategies to prepare and characterize native membrane proteins and protein membranes by AFM. <i>Current Opinion in Colloid and Interface Science</i> , <b>2008</b> , 13, 338-350	7.6	44	
145	The fibronectin synergy site re-enforces cell adhesion and mediates a crosstalk between integrin classes. <i>ELife</i> , <b>2017</b> , 6,	8.9	42	
144	Preparation techniques for the observation of native biological systems with the atomic force microscope. <i>Biosensors and Bioelectronics</i> , <b>1997</b> , 12, 867-877	11.8	41	
143	Free energy of membrane protein unfolding derived from single-molecule force measurements. <i>Biophysical Journal</i> , <b>2007</b> , 93, 930-7	2.9	41	
142	Out but not in: the large transmembrane Ebarrel protein FhuA unfolds but cannot refold via Ehairpins. <i>Structure</i> , <b>2012</b> , 20, 2185-90	5.2	40	
141	Tracking mechanics and volume of globular cells with atomic force microscopy using a constant-height clamp. <i>Nature Protocols</i> , <b>2012</b> , 7, 143-54	18.8	40	
140	Differentiating ligand and inhibitor interactions of a single antiporter. <i>Journal of Molecular Biology</i> , <b>2006</b> , 362, 925-32	6.5	40	
139	Structural evidence for a constant c11 ring stoichiometry in the sodium F-ATP synthase. <i>FEBS Journal</i> , <b>2005</b> , 272, 5474-83	5.7	40	
138	Isolation and characterization of gap junctions from tissue culture cells. <i>Journal of Molecular Biology</i> , <b>2002</b> , 315, 587-600	6.5	40	
137	Combining confocal and atomic force microscopy to quantify single-virus binding to mammalian cell surfaces. <i>Nature Protocols</i> , <b>2017</b> , 12, 2275-2292	18.8	39	

136	Localizing chemical groups while imaging single native proteins by high-resolution atomic force microscopy. <i>Nano Letters</i> , <b>2014</b> , 14, 2957-64	11.5	39
135	Mechanical properties of bovine rhodopsin and bacteriorhodopsin: possible roles in folding and function. <i>Langmuir</i> , <b>2008</b> , 24, 1330-7	4	38
134	Imaging and detecting molecular interactions of single transmembrane proteins. <i>Neurobiology of Aging</i> , <b>2006</b> , 27, 546-61	5.6	38
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