

# Daniel J Muller

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

279  
papers

19,380  
citations

78  
h-index

128  
g-index

286  
ext. papers

21,987  
ext. citations

9.6  
avg, IF

6.93  
L-index

#	Paper	IF	Citations
279	Rasterkraftmikroskopie <b>2022</b> , 601-610		
278	Gasdermin-A3 pore formation propagates along variable pathways.. <i>Nature Communications</i> , <b>2022</b> , 13, 2609	17.4	1
277	Monitoring the binding and insertion of a single transmembrane protein by an insertase. <i>Nature Communications</i> , <b>2021</b> , 12, 7082	17.4	3
276	Atomic Force Microscopy-Based Force Spectroscopy and Multiparametric Imaging of Biomolecular and Cellular Systems. <i>Chemical Reviews</i> , <b>2021</b> , 121, 11701-11725	68.1	24
275	Scanning probe microscopy. <i>Nature Reviews Methods Primers</i> , <b>2021</b> , 1,		31
274	Rheology of rounded mammalian cells over continuous high-frequencies. <i>Nature Communications</i> , <b>2021</b> , 12, 2922	17.4	4
273	Proton gradients from light-harvesting E. coli control DNA assemblies for synthetic cells. <i>Nature Communications</i> , <b>2021</b> , 12, 3967	17.4	6
272	Force spectroscopy of single cells using atomic force microscopy. <i>Nature Reviews Methods Primers</i> , <b>2021</b> , 1,		11
271	Monitoring the antibiotic darobactin modulating the $\beta$ barrel assembly factor BamA. <i>Structure</i> , <b>2021</b> ,	5.2	2
270	Lipids and Phosphorylation Conjointly Modulate Complex Formation of $\beta$ Adrenergic Receptor and $\beta$ arrestin2.. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 807913	5.7	1
269	Protease-activated receptor signalling initiates $\beta$ ntegrin-mediated adhesion in non-haematopoietic cells. <i>Nature Materials</i> , <b>2020</b> , 19, 218-226	27	10
268	Kin discrimination in social yeast is mediated by cell surface receptors of the Flo11 adhesin family. <i>ELife</i> , <b>2020</b> , 9,	8.9	15
267	$\beta$ -Class integrin binding to fibronectin is solely mediated by RGD and unaffected by an RGE mutation. <i>Journal of Cell Biology</i> , <b>2020</b> , 219,	7.3	8
266	Neurons differentiate magnitude and location of mechanical stimuli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 848-856	11.5	22
265	Nonlinear mechanics of lamin filaments and the meshwork topology build an emergent nuclear lamina. <i>Nature Communications</i> , <b>2020</b> , 11, 6205	17.4	17
264	Reply to Desikan et al.: Micelle formation among various mechanisms of toxin pore formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 5109-5110	11.5	1
263	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

262	Spatiotemporally Controlled Myosin Relocalization and Internal Pressure Generate Sibling Cell Size Asymmetry. <i>iScience</i> , <b>2019</b> , 13, 9-19	6.1	8
261	Insertion and folding pathways of single membrane proteins guided by translocases and insertases. <i>Science Advances</i> , <b>2019</b> , 5, eaau6824	14.3	21
260	High-Resolution Imaging of Malto porin LamB while Quantifying the Free-Energy Landscape and Asymmetry of Sugar Binding. <i>Nano Letters</i> , <b>2019</b> , 19, 6442-6453	11.5	6
259	Conformational Plasticity of Human Protease-Activated Receptor 1 upon Antagonist- and Agonist-Binding. <i>Structure</i> , <b>2019</b> , 27, 1517-1526.e3	5.2	6
258	Magnetically guided virus stamping for the targeted infection of single cells or groups of cells. <i>Nature Protocols</i> , <b>2019</b> , 14, 3205-3219	18.8	6
257	Seeing and sensing single G protein-coupled receptors by atomic force microscopy. <i>Current Opinion in Cell Biology</i> , <b>2019</b> , 57, 25-32	9	12
256	Atomic force microscopy-based mechanobiology. <i>Nature Reviews Physics</i> , <b>2019</b> , 1, 41-57	23.6	274
255	Protein-enriched outer membrane vesicles as a native platform for outer membrane protein studies. <i>Communications Biology</i> , <b>2018</b> , 1, 23	6.7	33
254	Reversible Cation-Selective Attachment and Self-Assembly of Human Tau on Supported Brain Lipid Membranes. <i>Nano Letters</i> , <b>2018</b> , 18, 3271-3281	11.5	20
253	Virus stamping for targeted single-cell infection in vitro and in vivo. <i>Nature Biotechnology</i> , <b>2018</b> , 36, 81-88	14.5	31
252	Structural Properties of the Human Protease-Activated Receptor 1 Changing by a Strong Antagonist. <i>Structure</i> , <b>2018</b> , 26, 829-838.e4	5.2	6
251	Optimized reconstitution of membrane proteins into synthetic membranes. <i>Communications Chemistry</i> , <b>2018</b> , 1,	6.3	26
250	POTRA Domains, Extracellular Lid, and Membrane Composition Modulate the Conformational Stability of the $\beta$ Barrel Assembly Factor BamA. <i>Structure</i> , <b>2018</b> , 26, 987-996.e3	5.2	6
249	Mechanism of membrane pore formation by human gasdermin-D. <i>EMBO Journal</i> , <b>2018</b> , 37,	13	114
248	Single-Molecule Force Spectroscopy of Transmembrane $\beta$ Barrel Proteins. <i>Annual Review of Analytical Chemistry</i> , <b>2018</b> , 11, 375-395	12.5	15
247	Cells Stiffen for Cytokines. <i>Cell Chemical Biology</i> , <b>2018</b> , 25, 495-496	8.2	1
246	Imaging in Biologically-Relevant Environments with AFM Using Stiff qPlus Sensors. <i>Scientific Reports</i> , <b>2018</b> , 8, 9330	4.9	20
245	Oscillatory Switches of Dorso-Ventral Polarity in Cells Confined between Two Surfaces. <i>Biophysical Journal</i> , <b>2018</b> , 115, 150-162	2.9	8

244	V-class integrins exert dual roles on $\beta 1$ integrins to strengthen adhesion to fibronectin. <i>Nature Communications</i> , <b>2017</b> , 8, 14348	17.4	68
243	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
242	Membrane proteins scrambling through a folding landscape. <i>Science</i> , <b>2017</b> , 355, 907-908	33.3	10
241	Maltoporin LamB Unfolds $\beta$ Hairpins along Mechanical Stress-Dependent Unfolding Pathways. <i>Structure</i> , <b>2017</b> , 25, 1139-1144.e2	5.2	12
240	Pull-and-Paste of Single Transmembrane Proteins. <i>Nano Letters</i> , <b>2017</b> , 17, 4478-4488	11.5	14
239	Detecting Ligand-Binding Events and Free Energy Landscape while Imaging Membrane Receptors at Subnanometer Resolution. <i>Nano Letters</i> , <b>2017</b> , 17, 3261-3269	11.5	24
238	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
237	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
236	Atomic force microscopy-based characterization and design of biointerfaces. <i>Nature Reviews Materials</i> , <b>2017</b> , 2,	73.3	95
235	Inertial picobalance reveals fast mass fluctuations in mammalian cells. <i>Nature</i> , <b>2017</b> , 550, 500-505	50.4	62
234	Genome-scale single-cell mechanical phenotyping reveals disease-related genes involved in mitotic rounding. <i>Nature Communications</i> , <b>2017</b> , 8, 1266	17.4	28
233	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
232	High-Resolution Imaging and Multiparametric Characterization of Native Membranes by Combining Confocal Microscopy and an Atomic Force Microscopy-Based Toolbox. <i>ACS Nano</i> , <b>2017</b> , 11, 8292-8301	16.7	18
231	Fibronectin-bound $\beta 1$ 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
230	Fusion Domains Guide the Oriented Insertion of Light-Driven Proton Pumps into Liposomes. <i>Biophysical Journal</i> , <b>2017</b> , 113, 1181-1186	2.9	19
229	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
228	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
227	Unraveling the Pore-Forming Steps of Pneumolysin from <i>Streptococcus pneumoniae</i> . <i>Nano Letters</i> , <b>2016</b> , 16, 7915-7924	11.5	27

226	Engineering and Assembly of Protein Modules into Functional Molecular Systems. <i>Chimia</i> , <b>2016</b> , 70, 398-401	4.1	7
225	Molecular Plasticity of the Human Voltage-Dependent Anion Channel Embedded Into a Membrane. <i>Structure</i> , <b>2016</b> , 24, 585-594	5.2	27
224	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
223	A glucose-starvation response regulates the diffusion of macromolecules. <i>ELife</i> , <b>2016</b> , 5,	8.9	93
222	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
221	Mechanism of allosteric regulation of $\beta$ adrenergic receptor by cholesterol. <i>ELife</i> , <b>2016</b> , 5,	8.9	78
220	Engineering a Chemical Switch into the Light-driven Proton Pump Proteorhodopsin by Cysteine Mutagenesis and Thiol Modification. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 8992-8995	3.6	3
219	Monitoring Backbone Hydrogen-Bond Formation in $\beta$ Barrel Membrane Protein Folding. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 5952-5	16.4	24
218	Monitoring Backbone Hydrogen-Bond Formation in $\beta$ Barrel Membrane Protein Folding. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 6056-6059	3.6	4
217	Engineering a Chemical Switch into the Light-driven Proton Pump Proteorhodopsin by Cysteine Mutagenesis and Thiol Modification. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 8846-9	16.4	16
216	GSDMD membrane pore formation constitutes the mechanism of pyroptotic cell death. <i>EMBO Journal</i> , <b>2016</b> , 35, 1766-78	13	521
215	The biomechanical properties of an epithelial tissue determine the location of its vasculature. <i>Nature Communications</i> , <b>2016</b> , 7, 13560	17.4	16
214	YidC assists the stepwise and stochastic folding of membrane proteins. <i>Nature Chemical Biology</i> , <b>2016</b> , 12, 911-917	11.7	52
213	Rheology of the Active Cell Cortex in Mitosis. <i>Biophysical Journal</i> , <b>2016</b> , 111, 589-600	2.9	76
212	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
211	How To Minimize Artifacts in Atomistic Simulations of Membrane Proteins, Whose Crystal Structure Is Heavily Engineered: $\beta$ Adrenergic Receptor in the Spotlight. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 3432-45	6.4	12
210	Single-molecule force spectroscopy of membrane proteins from membranes freely spanning across nanoscopic pores. <i>Nano Letters</i> , <b>2015</b> , 15, 3624-33	11.5	24
209	Observing a lipid-dependent alteration in single lactose permeases. <i>Structure</i> , <b>2015</b> , 23, 754-61	5.2	27

208	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
207	Neuronal uptake and propagation of a rare phosphorylated high-molecular-weight tau derived from Alzheimer's disease brain. <i>Nature Communications</i> , <b>2015</b> , 6, 8490	17.4	204
206	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
205	Impact of holdase chaperones Skp and SurA on the folding of $\beta$ -barrel outer-membrane proteins. <i>Nature Structural and Molecular Biology</i> , <b>2015</b> , 22, 795-802	17.6	90
204	In PC3 prostate cancer cells ephrin receptors crosstalk to $\beta$ -integrins to strengthen adhesion to collagen type I. <i>Scientific Reports</i> , <b>2015</b> , 5, 8206	4.9	13
203	Increasing throughput of AFM-based single cell adhesion measurements through multisubstrate surfaces. <i>Beilstein Journal of Nanotechnology</i> , <b>2015</b> , 6, 157-66	3	20
202	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
201	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
200	Action of the Hsp70 chaperone system observed with single proteins. <i>Nature Communications</i> , <b>2015</b> , 6, 6307	17.4	46
199	Cdk1-dependent mitotic enrichment of cortical myosin II promotes cell rounding against confinement. <i>Nature Cell Biology</i> , <b>2015</b> , 17, 148-59	23.4	102
198	Dynamic single-molecule force spectroscopy of rhodopsin in native membranes. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1271, 173-85	1.4	11
197	Quantification of surface tension and internal pressure generated by single mitotic cells. <i>Scientific Reports</i> , <b>2014</b> , 4, 6213	4.9	105
196	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
195	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
194	Substrate-induced changes in the structural properties of LacY. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E1571-80	11.5	28
193	Assay for characterizing the recovery of vertebrate cells for adhesion measurements by single-cell force spectroscopy. <i>FEBS Letters</i> , <b>2014</b> , 588, 3639-48	3.8	20
192	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
191	Oligomer formation of tau protein hyperphosphorylated in cells. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 34389-407	5.4	99

190	Dynamic coupling of ALCAM to the actin cortex strengthens cell adhesion to CD6. <i>Journal of Cell Science</i> , <b>2014</b> , 127, 1595-606	5.3	32
189	Products of the Parkinson <sup>®</sup> disease-related glyoxalase DJ-1, D-lactate and glycolate, support mitochondrial membrane potential and neuronal survival. <i>Biology Open</i> , <b>2014</b> , 3, 777-84	2.2	35
188	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
187	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
186	Mechanistic explanation of different unfolding behaviors observed for transmembrane and soluble $\beta$ barrel proteins. <i>Structure</i> , <b>2013</b> , 21, 1317-24	5.2	14
185	Wedged AFM-cantilevers for parallel plate cell mechanics. <i>Methods</i> , <b>2013</b> , 60, 186-94	4.6	51
184	A practical guide to quantify cell adhesion using single-cell force spectroscopy. <i>Methods</i> , <b>2013</b> , 60, 169-78	4.6	127
183	Multiparametric imaging of biological systems by force-distance curve-based AFM. <i>Nature Methods</i> , <b>2013</b> , 10, 847-54	21.6	317
182	Quantitative imaging of the electrostatic field and potential generated by a transmembrane protein pore at subnanometer resolution. <i>Nano Letters</i> , <b>2013</b> , 13, 5585-93	11.5	31
181	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	11.5	109
180	Kinetic, energetic, and mechanical differences between dark-state rhodopsin and opsin. <i>Structure</i> , <b>2013</b> , 21, 426-37	5.2	37
179	High-resolution imaging of 2D outer membrane protein F crystals by atomic force microscopy. <i>Methods in Molecular Biology</i> , <b>2013</b> , 955, 461-74	1.4	3
178	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
177	Single-molecule force spectroscopy of G-protein-coupled receptors. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 7801-15	58.5	23
176	Peptide transporter DtpA has two alternate conformations, one of which is promoted by inhibitor binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E3978-86	11.5	17
175	Quantifying cellular adhesion to covalently immobilized extracellular matrix proteins by single-cell force spectroscopy. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1046, 19-37	1.4	5
174	$\alpha$ -integrins are required for mechanotransduction in MDCK epithelial cells. <i>PLoS ONE</i> , <b>2013</b> , 8, e71485	3.7	21
173	The transmembrane protein KpOmpA anchoring the outer membrane of <i>Klebsiella pneumoniae</i> unfolds and refolds in response to tensile load. <i>Structure</i> , <b>2012</b> , 20, 121-7	5.2	33

172	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
171	Ligand-specific interactions modulate kinetic, energetic, and mechanical properties of the human $\beta$ adrenergic receptor. <i>Structure</i> , <b>2012</b> , 20, 1391-402	5.2	79
170	Investigating fibrillar aggregates of Tau protein by atomic force microscopy. <i>Methods in Molecular Biology</i> , <b>2012</b> , 849, 169-83	1.4	5
169	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
168	Biofunctionalization of Surfaces Using Ultrathin Nanoscopic Collagen Matrices <b>2012</b> , 427-441		
167	Out but not in: the large transmembrane $\beta$ barrel protein FhuA unfolds but cannot refold via $\beta$ hairpins. <i>Structure</i> , <b>2012</b> , 20, 2185-90	5.2	40
166	Structural, energetic, and mechanical perturbations in rhodopsin mutant that causes congenital stationary night blindness. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 21826-35	5.4	22
165	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
164	Cholesterol increases kinetic, energetic, and mechanical stability of the human $\beta$ -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
163	High-resolution atomic force microscopy and spectroscopy of native membrane proteins. <i>Reports on Progress in Physics</i> , <b>2011</b> , 74, 086601	14.4	102
162	Five challenges to bringing single-molecule force spectroscopy into living cells. <i>Nature Methods</i> , <b>2011</b> , 8, 123-7	21.6	136
161	Hydrostatic pressure and the actomyosin cortex drive mitotic cell rounding. <i>Nature</i> , <b>2011</b> , 469, 226-30	50.4	453
160	Atomic force microscopy: a nanoscopic window on the cell surface. <i>Trends in Cell Biology</i> , <b>2011</b> , 21, 461-9	18.3	279
159	Force probing cell shape changes to molecular resolution. <i>Trends in Biochemical Sciences</i> , <b>2011</b> , 36, 444-50	20.3	22
158	Force nanoscopy of living cells. <i>Current Biology</i> , <b>2011</b> , 21, R212-6	6.3	63
157	Force generation: ATP-powered proteasomes pull the rope. <i>Current Biology</i> , <b>2011</b> , 21, R427-30	6.3	2
156	Locating an extracellular K <sup>+</sup> -dependent interaction site that modulates betaine-binding of the Na <sup>+</sup> -coupled betaine symporter BetP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, E890-8	11.5	26
155	Retinal pigment epithelium cell alignment on nanostructured collagen matrices. <i>Cells Tissues Organs</i> , <b>2011</b> , 194, 443-56	2.1	8



154	Biochemistry. Seeing a molecular motor at work. <i>Science</i> , <b>2011</b> , 333, 704-5	33.3	22
153	One Hairpin Follows the Other: Exploring Refolding Pathways and Kinetics of the Transmembrane Barrel Protein OmpG. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 7560-7562	3.6	9
152	Molekulare Abbildung und Quantifizierung chemischer und physikalischer Eigenschaften nativer Proteine mit Kraftvolumen-Rasterkraftmikroskopie. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 12309-12314	3.6	3
151	One Hairpin follows the other: exploring refolding pathways and kinetics of the transmembrane barrel protein OmpG. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 7422-4	16.4	30
150	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
149	Assessing the structure and function of single biomolecules with scanning transmission electron and atomic force microscopes. <i>Micron</i> , <b>2011</b> , 42, 186-95	2.3	21
148	Atomic Force Microscopy to Study Mechanics of Living Mitotic Mammalian Cells. <i>Japanese Journal of Applied Physics</i> , <b>2011</b> , 50, 08LA01	1.4	1
147	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
146	Competing interactions stabilize pro- and anti-aggregant conformations of human Tau. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 20512-24	5.4	35
145	Atomic Force Microscopy to Study Mechanics of Living Mitotic Mammalian Cells. <i>Japanese Journal of Applied Physics</i> , <b>2011</b> , 50, 08LA01	1.4	3
144	Studying collagen self-assembly by time-lapse high-resolution atomic force microscopy. <i>Methods in Molecular Biology</i> , <b>2011</b> , 736, 97-107	1.4	10
143	Alignment and cell-matrix interactions of human corneal endothelial cells on nanostructured collagen type I matrices <b>2010</b> , 51, 6303-10		26
142	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
141	Control of directed cell migration in vivo by membrane-to-cortex attachment. <i>PLoS Biology</i> , <b>2010</b> , 8, e1000544	18.5	185
140	Conservation of molecular interactions stabilizing bovine and mouse rhodopsin. <i>Biochemistry</i> , <b>2010</b> , 49, 10412-20	3.2	22
139	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
138	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
137	pH-dependent interactions guide the folding and gate the transmembrane pore of the beta-barrel membrane protein OmpG. <i>Journal of Molecular Biology</i> , <b>2010</b> , 397, 878-82	6.5	34

136	Probing the interactions of carboxy-atractyloside and atractyloside with the yeast mitochondrial ADP/ATP carrier. <i>Structure</i> , <b>2010</b> , 18, 39-46	5.2	32
135	Movement directionality in collective migration of germ layer progenitors. <i>Current Biology</i> , <b>2010</b> , 20, 161-9	6.3	85
134	Electrostatic cell-surface repulsion initiates lumen formation in developing blood vessels. <i>Current Biology</i> , <b>2010</b> , 20, 2003-9	6.3	108
133	A "force buffer" protecting immunoglobulin titin. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 3528-31	16.4	22
132	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
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