

# Daniel J. Muller

## List of Publications by Year in descending order

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312  
papers

28,791  
citations

3515

90  
h-index

7333

152  
g-index

328  
all docs

328  
docs citations

328  
times ranked

23043  
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring the antibiotic darobactin modulating the $\beta$ -barrel assembly factor BamA. <i>Structure</i> , 2022, 30, 350-359.e3.	1.6	24
2	Rasterkraftmikroskopie. , 2022, , 601-610.		0
3	Gasdermin-A3 pore formation propagates along variable pathways. <i>Nature Communications</i> , 2022, 13, 2609.	5.8	25
4	High-resolution mass measurements of single budding yeast reveal linear growth segments. <i>Nature Communications</i> , 2022, 13, .	5.8	8
5	A cholesterol analog stabilizes the human $\beta_2$ -adrenergic receptor nonlinearly with temperature. <i>Science Signaling</i> , 2022, 15, .	1.6	8
6	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
7	Editorial: Scanning Probe Microscopies and Related Methods in Biology. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 657939.	1.6	0
8	Scanning probe microscopy. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	103
9	Rheology of rounded mammalian cells over continuous high-frequencies. <i>Nature Communications</i> , 2021, 12, 2922.	5.8	19
10	Proton gradients from light-harvesting <i>E. coli</i> control DNA assemblies for synthetic cells. <i>Nature Communications</i> , 2021, 12, 3967.	5.8	32
11	Force spectroscopy of single cells using atomic force microscopy. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	61
12	Monitoring the binding and insertion of a single transmembrane protein by an insertase. <i>Nature Communications</i> , 2021, 12, 7082.	5.8	16
13	Lipids and Phosphorylation Conjointly Modulate Complex Formation of $\beta_2$ -Adrenergic Receptor and $\beta_2$ -arrestin2. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 807913.	1.8	13
14	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
15	The nucleus acts as a ruler tailoring cell responses to spatial constraints. <i>Science</i> , 2020, 370, .	6.0	299
16	Nonlinear mechanics of lamin filaments and the meshwork topology build an emergent nuclear lamina. <i>Nature Communications</i> , 2020, 11, 6205.	5.8	40
17	Protease-activated receptor signalling initiates $\beta_1$ -integrin-mediated adhesion in non-haematopoietic cells. <i>Nature Materials</i> , 2020, 19, 218-226.	13.3	20
18	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> , 2020, 117, 5109-5110.	3.3	1

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19	Î±v-Class integrin binding to fibronectin is solely mediated by RGD and unaffected by an RGE mutation. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	17
20	Kin discrimination in social yeast is mediated by cell surface receptors of the Flo11 adhesin family. <i>ELife</i> , 2020, 9, .	2.8	30
21	High-Resolution Imaging of Maltoporin LamB while Quantifying the Free-Energy Landscape and Asymmetry of Sugar Binding. <i>Nano Letters</i> , 2019, 19, 6442-6453.	4.5	8
22	Conformational Plasticity of Human Protease-Activated Receptor 1 upon Antagonist- and Agonist-Binding. <i>Structure</i> , 2019, 27, 1517-1526.e3.	1.6	8
23	Magnetically guided virus stamping for the targeted infection of single cells or groups of cells. <i>Nature Protocols</i> , 2019, 14, 3205-3219.	5.5	7
24	Design and assembly of a chemically switchable and fluorescently traceable light-driven proton pump system for bionanotechnological applications. <i>Scientific Reports</i> , 2019, 9, 1046.	1.6	8
25	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
26	Spatiotemporally Controlled Myosin Relocalization and Internal Pressure Generate Sibling Cell Size Asymmetry. <i>IScience</i> , 2019, 13, 9-19.	1.9	16
27	Insertion and folding pathways of single membrane proteins guided by translocases and insertases. <i>Science Advances</i> , 2019, 5, eaau6824.	4.7	33
28	Seeing and sensing single G protein-coupled receptors by atomic force microscopy. <i>Current Opinion in Cell Biology</i> , 2019, 57, 25-32.	2.6	18
29	Vaccinia virus hijacks EGFR signalling to enhance virus spread through rapid and directed infected cell motility. <i>Nature Microbiology</i> , 2019, 4, 216-225.	5.9	73
30	Atomic force microscopy-based mechanobiology. <i>Nature Reviews Physics</i> , 2019, 1, 41-57.	11.9	500
31	Tau protein liquidâ€“liquid phase separation can initiate tau aggregation. <i>EMBO Journal</i> , 2018, 37, .	3.5	696
32	Protein-enriched outer membrane vesicles as a native platform for outer membrane protein studies. <i>Communications Biology</i> , 2018, 1, 23.	2.0	63
33	Reversible Cation-Selective Attachment and Self-Assembly of Human Tau on Supported Brain Lipid Membranes. <i>Nano Letters</i> , 2018, 18, 3271-3281.	4.5	31
34	Virus stamping for targeted single-cell infection in vitro and in vivo. <i>Nature Biotechnology</i> , 2018, 36, 81-88.	9.4	39
35	Structural Properties of the Human Protease-Activated Receptor 1 Changing by a Strong Antagonist. <i>Structure</i> , 2018, 26, 829-838.e4.	1.6	13
36	Cells Stiffen for Cytokines. <i>Cell Chemical Biology</i> , 2018, 25, 495-496.	2.5	1

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37	Imaging in Biologically-Relevant Environments with AFM Using Stiff qPlus Sensors. <i>Scientific Reports</i> , 2018, 8, 9330.	1.6	31
38	Oscillatory Switches of Dorso-Ventral Polarity in Cells Confined between Two Surfaces. <i>Biophysical Journal</i> , 2018, 115, 150-162.	0.2	11
39	Optimized reconstitution of membrane proteins into synthetic membranes. <i>Communications Chemistry</i> , 2018, 1, .	2.0	38
40	POTRA Domains, Extracellular Lid, and Membrane Composition Modulate the Conformational Stability of the $\beta$ Barrel Assembly Factor BamA. <i>Structure</i> , 2018, 26, 987-996.e3.	1.6	9
41	Mechanism of membrane pore formation by human gasdermin $\epsilon$ . <i>EMBO Journal</i> , 2018, 37, .	3.5	178
42	Single-Molecule Force Spectroscopy of Transmembrane $\beta$ -Barrel Proteins. <i>Annual Review of Analytical Chemistry</i> , 2018, 11, 375-395.	2.8	21
43	$\beta$ -V-class integrins exert dual roles on $\beta$ 1 integrins to strengthen adhesion to fibronectin. <i>Nature Communications</i> , 2017, 8, 14348.	5.8	92
44	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
45	Membrane proteins scrambling through a folding landscape. <i>Science</i> , 2017, 355, 907-908.	6.0	13
46	Maltoporin LamB Unfolds $\beta$ Hairpins along Mechanical Stress-Dependent Unfolding Pathways. <i>Structure</i> , 2017, 25, 1139-1144.e2.	1.6	22
47	Pull-and-Paste of Single Transmembrane Proteins. <i>Nano Letters</i> , 2017, 17, 4478-4488.	4.5	17
48	Detecting Ligand-Binding Events and Free Energy Landscape while Imaging Membrane Receptors at Subnanometer Resolution. <i>Nano Letters</i> , 2017, 17, 3261-3269.	4.5	28
49	Imaging modes of atomic force microscopy for application in molecular and cell biology. <i>Nature Nanotechnology</i> , 2017, 12, 295-307.	15.6	699
50	Multiparametric Atomic Force Microscopy Imaging of Biomolecular and Cellular Systems. <i>Accounts of Chemical Research</i> , 2017, 50, 924-931.	7.6	68
51	Atomic force microscopy-based characterization and design of biointerfaces. <i>Nature Reviews Materials</i> , 2017, 2, .	23.3	145
52	Inertial picobalance reveals fast mass fluctuations in mammalian cells. <i>Nature</i> , 2017, 550, 500-505.	18.7	100
53	Genome-scale single-cell mechanical phenotyping reveals disease-related genes involved in mitotic rounding. <i>Nature Communications</i> , 2017, 8, 1266.	5.8	52
54	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

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55	High-Resolution Imaging and Multiparametric Characterization of Native Membranes by Combining Confocal Microscopy and an Atomic Force Microscopy-Based Toolbox. <i>ACS Nano</i> , 2017, 11, 8292-8301.	7.3	23
56	Fibronectin-bound $\alpha 5 \beta 1$ integrins sense load and signal to reinforce adhesion in less than a second. <i>Nature Materials</i> , 2017, 16, 1262-1270.	13.3	109
57	Fusion Domains Guide the Oriented Insertion of Light-Driven Proton Pumps into Liposomes. <i>Biophysical Journal</i> , 2017, 113, 1181-1186.	0.2	23
58	Nanomechanical mapping of first binding steps of a virus to animal cells. <i>Nature Nanotechnology</i> , 2017, 12, 177-183.	15.6	170
59	The fibronectin synergy site re-enforces cell adhesion and mediates a crosstalk between integrin classes. <i>ELife</i> , 2017, 6, .	2.8	65
60	Engineering a Chemical Switch into the Light-Driven Proton Pump Proteorhodopsin by Cysteine Mutagenesis and Thiol Modification. <i>Angewandte Chemie</i> , 2016, 128, 8992-8995.	1.6	3
61	Monitoring Backbone Hydrogen-Bond Formation in $\alpha$ -Barrel Membrane Protein Folding. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5952-5955.	7.2	27
62	Monitoring Backbone Hydrogen-Bond Formation in $\alpha$ -Barrel Membrane Protein Folding. <i>Angewandte Chemie</i> , 2016, 128, 6056-6059.	1.6	4
63	Engineering a Chemical Switch into the Light-Driven Proton Pump Proteorhodopsin by Cysteine Mutagenesis and Thiol Modification. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8846-8849.	7.2	21
64	<sc>GSDMD</sc> membrane pore formation constitutes the mechanism of pyroptotic cell death. <i>EMBO Journal</i> , 2016, 35, 1766-1778.	3.5	842
65	The biomechanical properties of an epithelial tissue determine the location of its vasculature. <i>Nature Communications</i> , 2016, 7, 13560.	5.8	20
66	YidC assists the stepwise and stochastic folding of membrane proteins. <i>Nature Chemical Biology</i> , 2016, 12, 911-917.	3.9	70
67	Rheology of the Active Cell Cortex in Mitosis. <i>Biophysical Journal</i> , 2016, 111, 589-600.	0.2	119
68	DNA annealing by Red $\beta$ is insufficient for homologous recombination and the additional requirements involve intra- and inter-molecular interactions. <i>Scientific Reports</i> , 2016, 6, 34525.	1.6	15
69	Unraveling the Pore-Forming Steps of Pneumolysin from <i>Streptococcus pneumoniae</i> . <i>Nano Letters</i> , 2016, 16, 7915-7924.	4.5	39
70	Engineering and Assembly of Protein Modules into Functional Molecular Systems. <i>Chimia</i> , 2016, 70, 398.	0.3	10
71	Molecular Plasticity of the Human Voltage-Dependent Anion Channel Embedded Into a Membrane. <i>Structure</i> , 2016, 24, 585-594.	1.6	36
72	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

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73	A glucose-starvation response regulates the diffusion of macromolecules. <i>ELife</i> , 2016, 5, .	2.8	151
74	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
75	Mechanism of allosteric regulation of $\beta_2$ -adrenergic receptor by cholesterol. <i>ELife</i> , 2016, 5, .	2.8	115
76	In PC3 prostate cancer cells ephrin receptors crosstalk to $\beta_1$ -integrins to strengthen adhesion to collagen type I. <i>Scientific Reports</i> , 2015, 5, 8206.	1.6	18
77	Increasing throughput of AFM-based single cell adhesion measurements through multisubstrate surfaces. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 157-166.	1.5	25
78	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
79	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
80	Toward high-throughput biomechanical phenotyping of single molecules. <i>Nature Methods</i> , 2015, 12, 45-46.	9.0	9
81	Action of the Hsp70 chaperone system observed with single proteins. <i>Nature Communications</i> , 2015, 6, 6307.	5.8	58
82	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
83	Imaging G protein-coupled receptors while quantifying their ligand-binding free-energy landscape. <i>Nature Methods</i> , 2015, 12, 845-851.	9.0	106
84	How To Minimize Artifacts in Atomistic Simulations of Membrane Proteins, Whose Crystal Structure Is Heavily Engineered: $\beta_2$ -Adrenergic Receptor in the Spotlight. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 3432-3445.	2.3	16
85	Single-Molecule Force Spectroscopy of Membrane Proteins from Membranes Freely Spanning Across Nanoscopic Pores. <i>Nano Letters</i> , 2015, 15, 3624-3633.	4.5	30
86	Observing a Lipid-Dependent Alteration in Single Lactose Permeases. <i>Structure</i> , 2015, 23, 754-761.	1.6	32
87	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
88	Neuronal uptake and propagation of a rare phosphorylated high-molecular-weight tau derived from Alzheimer's disease brain. <i>Nature Communications</i> , 2015, 6, 8490.	5.8	283
89	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
90	Impact of holdase chaperones Skp and SurA on the folding of $\beta$ -barrel outer-membrane proteins. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 795-802.	3.6	108

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91	Dynamic Single-Molecule Force Spectroscopy of Rhodopsin in Native Membranes. <i>Methods in Molecular Biology</i> , 2015, 1271, 173-185.	0.4	11
92	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
93	Oligomer Formation of Tau Protein Hyperphosphorylated in Cells. <i>Journal of Biological Chemistry</i> , 2014, 289, 34389-34407.	1.6	132
94	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
95	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
96	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
97	Multiparametric high-resolution imaging of native proteins by force-distance curve-based AFM. <i>Nature Protocols</i> , 2014, 9, 1113-1130.	5.5	95
98	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
99	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
100	Assay for characterizing the recovery of vertebrate cells for adhesion measurements by single-cell force spectroscopy. <i>FEBS Letters</i> , 2014, 588, 3639-3648.	1.3	28
101	Quantification of surface tension and internal pressure generated by single mitotic cells. <i>Scientific Reports</i> , 2014, 4, 6213.	1.6	151
102	Nanomechanical Properties of Proteins and Membranes Depend on Loading Rate and Electrostatic Interactions. <i>ACS Nano</i> , 2013, 7, 2642-2650.	7.3	54
103	Mechanistic Explanation of Different Unfolding Behaviors Observed for Transmembrane and Soluble $\beta$ -Barrel Proteins. <i>Structure</i> , 2013, 21, 1317-1324.	1.6	14
104	Wedged AFM-cantilevers for parallel plate cell mechanics. <i>Methods</i> , 2013, 60, 186-194.	1.9	65
105	A practical guide to quantify cell adhesion using single-cell force spectroscopy. <i>Methods</i> , 2013, 60, 169-178.	1.9	161
106	Multiparametric imaging of biological systems by force-distance curve-based AFM. <i>Nature Methods</i> , 2013, 10, 847-854.	9.0	378
107	Quantitative Imaging of the Electrostatic Field and Potential Generated by a Transmembrane Protein Pore at Subnanometer Resolution. <i>Nano Letters</i> , 2013, 13, 5585-5593.	4.5	34
108	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

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109	Kinetic, Energetic, and Mechanical Differences between Dark-State Rhodopsin and Opsin. <i>Structure</i> , 2013, 21, 426-437.	1.6	47
110	High-Resolution Imaging of 2D Outer Membrane Protein F Crystals by Atomic Force Microscopy. <i>Methods in Molecular Biology</i> , 2013, 955, 461-474.	0.4	4
111	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
112	Single-molecule force spectroscopy of G-protein-coupled receptors. <i>Chemical Society Reviews</i> , 2013, 42, 7801.	18.7	27
113	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> , 2013, 110, E3978-86.	3.3	25
114	Quantifying Cellular Adhesion to Covalently Immobilized Extracellular Matrix Proteins by Single-Cell Force Spectroscopy. <i>Methods in Molecular Biology</i> , 2013, 1046, 19-37.	0.4	5
115	$\beta$ -Integrins Are Required for Mechanotransduction in MDCK Epithelial Cells. <i>PLoS ONE</i> , 2013, 8, e71485.	1.1	22
116	Cholesterol increases kinetic, energetic, and mechanical stability of the human $\beta_2$ -adrenergic receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E3463-72.	3.3	142
117	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
118	Ligand-Specific Interactions Modulate Kinetic, Energetic, and Mechanical Properties of the Human $\beta_2$ Adrenergic Receptor. <i>Structure</i> , 2012, 20, 1391-1402.	1.6	87
119	Investigating Fibrillar Aggregates of Tau Protein by Atomic Force Microscopy. <i>Methods in Molecular Biology</i> , 2012, 849, 169-183.	0.4	7
120	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
121	Biofunctionalization of Surfaces Using Ultrathin Nanoscopic Collagen Matrices. , 2012, , 427-441.		0
122	Out but Not In: The Large Transmembrane $\beta$ -Barrel Protein FhuA Unfolds but Cannot Refold via $\beta$ -Hairpins. <i>Structure</i> , 2012, 20, 2185-2190.	1.6	47
123	Structural, Energetic, and Mechanical Perturbations in Rhodopsin Mutant That Causes Congenital Stationary Night Blindness. <i>Journal of Biological Chemistry</i> , 2012, 287, 21826-21835.	1.6	26
124	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
125	The Transmembrane Protein KpOmpA Anchoring the Outer Membrane of <i>Klebsiella pneumoniae</i> Unfolds and Refolds in Response to Tensile Load. <i>Structure</i> , 2012, 20, 121-127.	1.6	38
126	High-resolution atomic force microscopy and spectroscopy of native membrane proteins. <i>Reports on Progress in Physics</i> , 2011, 74, 086601.	8.1	118



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127	A Size Barrier Limits Protein Diffusion at the Cell Surface to Generate Lipid-Rich Myelin-Membrane Sheets. <i>Developmental Cell</i> , 2011, 21, 445-456.	3.1	105
128	Structure and function of the glucose PTS transporter from <i>Escherichia coli</i> . <i>Journal of Structural Biology</i> , 2011, 176, 395-403.	1.3	21
129	Five challenges to bringing single-molecule force spectroscopy into living cells. <i>Nature Methods</i> , 2011, 8, 123-127.	9.0	155
130	Hydrostatic pressure and the actomyosin cortex drive mitotic cell rounding. <i>Nature</i> , 2011, 469, 226-230.	13.7	576
131	Atomic force microscopy: a nanoscopic window on the cell surface. <i>Trends in Cell Biology</i> , 2011, 21, 461-469.	3.6	329
132	Force probing cell shape changes to molecular resolution. <i>Trends in Biochemical Sciences</i> , 2011, 36, 444-450.	3.7	27
133	Force nanoscopy of living cells. <i>Current Biology</i> , 2011, 21, R212-R216.	1.8	65
134	Force Generation: ATP-Powered Proteasomes Pull the Rope. <i>Current Biology</i> , 2011, 21, R427-R430.	1.8	2
135	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> , 2011, 108, E890-8.	3.3	33
136	Retinal Pigment Epithelium Cell Alignment on Nanostructured Collagen Matrices. <i>Cells Tissues Organs</i> , 2011, 194, 443-456.	1.3	9
137	Seeing a Molecular Motor at Work. <i>Science</i> , 2011, 333, 704-705.	6.0	27
138	One $\beta$ Hairpin Follows the Other: Exploring Refolding Pathways and Kinetics of the Transmembrane $\beta$ -Barrel Protein OmpG. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7422-7424.	7.2	32
139	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
140	Assessing the structure and function of single biomolecules with scanning transmission electron and atomic force microscopes. <i>Micron</i> , 2011, 42, 186-195.	1.1	34
141	Atomic Force Microscopy to Study Mechanics of Living Mitotic Mammalian Cells. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 08LA01.	0.8	1
142	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
143	Competing Interactions Stabilize Pro- and Anti-aggregant Conformations of Human Tau. <i>Journal of Biological Chemistry</i> , 2011, 286, 20512-20524.	1.6	44
144	Studying Collagen Self-Assembly by Time-Lapse High-Resolution Atomic Force Microscopy. <i>Methods in Molecular Biology</i> , 2011, 736, 97-107.	0.4	10

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145	Atomic Force Microscopy to Study Mechanics of Living Mitotic Mammalian Cells. Japanese Journal of Applied Physics, 2011, 50, 08LA01.	0.8	3
146	Probing the Interactions of Carboxy-atractyloside and Atractyloside with the Yeast Mitochondrial ADP/ATP Carrier. Structure, 2010, 18, 39-46.	1.6	42
147	Movement Directionality in Collective Migration of Germ Layer Progenitors. Current Biology, 2010, 20, 161-169.	1.8	111
148	Electrostatic Cell-Surface Repulsion Initiates Lumen Formation in Developing Blood Vessels. Current Biology, 2010, 20, 2003-2009.	1.8	124
149	A $\alpha$ -Force Buffer $\beta$ -Protecting Immunoglobulin Titin. Angewandte Chemie - International Edition, 2010, 49, 3528-3531.	7.2	23
150	The effect of unlocking RGD-motifs in collagen I on pre-osteoblast adhesion and differentiation. Biomaterials, 2010, 31, 2827-2835.	5.7	121
151	Stimulated single-cell force spectroscopy to quantify cell adhesion receptor crosstalk. Proteomics, 2010, 10, 1455-1462.	1.3	35
152	Dual energy landscape: The functional state of the $\beta$ -barrel outer membrane protein G molds its unfolding energy landscape. Proteomics, 2010, 10, 4151-4162.	1.3	16
153	Author Response: Effects of Fibroblastic and Endothelial Extracellular Matrices on Corneal Endothelial Cells. , 2010, 51, 6906.		0
154	Alignment and Cell-Matrix Interactions of Human Corneal Endothelial Cells on Nanostructured Collagen Type I Matrices. , 2010, 51, 6303.		33
155	Human Tau Isoforms Assemble into Ribbon-like Fibrils That Display Polymorphic Structure and Stability. Journal of Biological Chemistry, 2010, 285, 27302-27313.	1.6	96
156	Control of Directed Cell Migration In Vivo by Membrane-to-Cortex Attachment. PLoS Biology, 2010, 8, e1000544.	2.6	231
157	Conservation of Molecular Interactions Stabilizing Bovine and Mouse Rhodopsin. Biochemistry, 2010, 49, 10412-10420.	1.2	26
158	Quantifying cellular adhesion to extracellular matrix components by single-cell force spectroscopy. Nature Protocols, 2010, 5, 1353-1361.	5.5	172
159	pH-Induced Conformational Change of the $\beta$ -Barrel-Forming Protein OmpG Reconstituted into Native E. coli Lipids. Journal of Molecular Biology, 2010, 396, 610-616.	2.0	48
160	pH-Dependent Interactions Guide the Folding and Gate the Transmembrane Pore of the $\beta$ -Barrel Membrane Protein OmpG. Journal of Molecular Biology, 2010, 397, 878-882.	2.0	37
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