Daniel J Muller

List of Publications by Year
in descending order

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	Monitoring the antibiotic darobactin modulating the Î²-barrel assembly factor BamA. Structure, 2022, 30, 350-359.e3.	1.6	24
2	Rasterkraftmikroskopie. , 2022, , 601-610.		0
3	Gasdermin-A3 pore formation propagates along variable pathways. Nature Communications, 2022, 13, 2609.	5.8	25
4	High-resolution mass measurements of single budding yeast reveal linear growth segments. Nature Communications, 2022, 13, .	5.8	8
5	A cholesterol analog stabilizes the human Î² ₂ -adrenergic receptor nonlinearly with temperature. Science Signaling, 2022, 15, .	1.6	8
6	Atomic Force Microscopy-Based Force Spectroscopy and Multiparametric Imaging of Biomolecular and Cellular Systems. Chemical Reviews, 2021, 121, 11701-11725.	23.0	109
7	Scanning probe microscopy. Nature Reviews Methods Primers, 2021, 1, .	11.8	103
8	Rheology of rounded mammalian cells over continuous high-frequencies. Nature Communications, 2021, 12, 2922.	5.8	19
9	Proton gradients from light-harvesting E. coli control DNA assemblies for synthetic cells. Nature Communications, 2021, 12, 3967.	5.8	32
10	Force spectroscopy of single cells using atomic force microscopy. Nature Reviews Methods Primers, 2021, 1, .	11.8	61
11	Monitoring the binding and insertion of a single transmembrane protein by an insertase. Nature Communications, 2021, 12, 7082.	5.8	16
12	Lipids and Phosphorylation Conjointly Modulate Complex Formation of Î²2-Adrenergic Receptor and Î²-arrestin2. Frontiers in Cell and Developmental Biology, 2021, 9, 807913.	1.8	13
13	Neurons differentiate magnitude and location of mechanical stimuli. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 848-856.	3.3	58
14	Nonlinear mechanics of lamin filaments and the meshwork topology build an emergent nuclear lamina. Nature Communications, 2020, 11, 6205.	5.8	40
15	Protease-activated receptor signalling initiates Î±5Î²1-integrin-mediated adhesion in non-haematopoietic cells. Nature Materials, 2020, 19, 218-226.	13.3	20
16	Reply to Desikan et al.: Micelle formation among various mechanisms of toxin pore formation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5109-5110.	3.3	1
17	Î±v-Class integrin binding to fibronectin is solely mediated by RGD and unaffected by an RGE mutation. Journal of Cell Biology, 2020, 219, .	2.3	17
18	Kin discrimination in social yeast is mediated by cell surface receptors of the Flo11 adhesin family. ELife, 2020, 9, .	2.8	30

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19	High-Resolution Imaging of Maltoporin LamB while Quantifying the Free-Energy Landscape and Asymmetry of Sugar Binding. Nano Letters, 2019, 19, 6442-6453.	4.5	8
20	Conformational Plasticity of Human Protease-Activated Receptor 1 upon Antagonist- and Agonist-Binding. Structure, 2019, 27, 1517-1526.e3.	1.6	8
21	Magnetically guided virus stamping for the targeted infection of single cells or groups of cells. Nature Protocols, 2019, 14, 3205-3219.	5.5	7
22	Membrane perforation by the pore-forming toxin pneumolysin. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13352-13357.	3.3	75
23	Spatiotemporally Controlled Myosin Relocalization and Internal Pressure Generate Sibling Cell Size Asymmetry. IScience, 2019, 13, 9-19.	1.9	16
24	Insertion and folding pathways of single membrane proteins guided by translocases and insertases. Science Advances, 2019, 5, eaau6824.	4.7	33
25	Seeing and sensing single G protein-coupled receptors by atomic force microscopy. Current Opinion in Cell Biology, 2019, 57, 25-32.	2.6	18
26	Atomic force microscopy-based mechanobiology. Nature Reviews Physics, 2019, 1, 41-57.	11.9	500
27	Protein-enriched outer membrane vesicles as a native platform for outer membrane protein studies. Communications Biology, 2018, 1, 23.	2.0	63
28	Reversible Cation-Selective Attachment and Self-Assembly of Human Tau on Supported Brain Lipid Membranes. Nano Letters, 2018, 18, 3271-3281.	4.5	31
29	Virus stamping for targeted single-cell infection in vitro and in vivo. Nature Biotechnology, 2018, 36, 81-88.	9.4	39
30	Structural Properties of the Human Protease-Activated Receptor 1 Changing by a Strong Antagonist. Structure, 2018, 26, 829-838.e4.	1.6	13
31	Cells Stiffen for Cytokines. Cell Chemical Biology, 2018, 25, 495-496.	2.5	1
32	Imaging in Biologically-Relevant Environments with AFM Using Stiff qPlus Sensors. Scientific Reports, 2018, 8, 9330.	1.6	31
33	Oscillatory Switches of Dorso-Ventral Polarity in Cells Confined between Two Surfaces. Biophysical Journal, 2018, 115, 150-162.	0.2	11
34	Optimized reconstitution of membrane proteins into synthetic membranes. Communications Chemistry, 2018, 1, .	2.0	38
35	POTRA Domains, Extracellular Lid, and Membrane Composition Modulate the Conformational Stability of the Î² Barrel Assembly Factor BamA. Structure, 2018, 26, 987-996.e3.	1.6	9
36	Mechanism of membrane pore formation by human gasderminâ€Đ. EMBO Journal, 2018, 37, .	3.5	178

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37	Single-Molecule Force Spectroscopy of Transmembrane Î²-Barrel Proteins. Annual Review of Analytical Chemistry, 2018, 11, 375-395.	2.8	21
38	Î±V-class integrins exert dual roles on Î±5Î²1 integrins to strengthen adhesion to fibronectin. Nature Communications, 2017, 8, 14348.	5.8	92
39	Mechanical Stimulation of Piezo1 Receptors Depends on Extracellular Matrix Proteins and Directionality of Force. Nano Letters, 2017, 17, 2064-2072.	4.5	100
40	Membrane proteins scrambling through a foldinglandscape. Science, 2017, 355, 907-908.	6.0	13
41	Maltoporin LamB Unfolds Î² Hairpins along Mechanical Stress-Dependent Unfolding Pathways. Structure, 2017, 25, 1139-1144.e2.	1.6	22
42	Pull-and-Paste of Single Transmembrane Proteins. Nano Letters, 2017, 17, 4478-4488.	4.5	17
43	Detecting Ligand-Binding Events and Free Energy Landscape while Imaging Membrane Receptors at Subnanometer Resolution. Nano Letters, 2017, 17, 3261-3269.	4.5	28
44	Imaging modes of atomic force microscopy for application in molecular and cell biology. Nature Nanotechnology, 2017, 12, 295-307.	15.6	699
45	Multiparametric Atomic Force Microscopy Imaging of Biomolecular and Cellular Systems. Accounts of Chemical Research, 2017, 50, 924-931.	7.6	68
46	Atomic force microscopy-based characterization and design of biointerfaces. Nature Reviews Materials, 2017, 2, .	23.3	145
47	Inertial picobalance reveals fast mass fluctuations in mammalian cells. Nature, 2017, 550, 500-505.	13.7	100
48	Genome-scale single-cell mechanical phenotyping reveals disease-related genes involved in mitotic rounding. Nature Communications, 2017, 8, 1266.	5.8	52
49	Combining confocal and atomic force microscopy to quantify single-virus binding to mammalian cell surfaces. Nature Protocols, 2017, 12, 2275-2292.	5.5	58
50	High-Resolution Imaging and Multiparametric Characterization of Native Membranes by Combining Confocal Microscopy and an Atomic Force Microscopy-Based Toolbox. ACS Nano, 2017, 11, 8292-8301.	7.3	23
51	Fibronectin-bound Î±5Î²1 integrins sense load and signal to reinforce adhesion in less than a second. Nature Materials, 2017, 16, 1262-1270.	13.3	109
52	Fusion Domains Guide the Oriented Insertion of Light-Driven Proton Pumps into Liposomes. Biophysical Journal, 2017, 113, 1181-1186.	0.2	23
53	Nanomechanical mapping of first binding steps of a virus to animal cells. Nature Nanotechnology, 2017, 12, 177-183.	15.6	170
54	The fibronectin synergy site re-enforces cell adhesion and mediates a crosstalk between integrin classes. ELife, 2017, 6, .	2.8	65

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55	Engineering a Chemical Switch into the Lightâ€driven Proton Pump Proteorhodopsin by Cysteine Mutagenesis and Thiol Modification. Angewandte Chemie, 2016, 128, 8992-8995.	1.6	3
56	Monitoring Backbone Hydrogenâ€Bond Formation in Î²â€Barrel Membrane Protein Folding. Angewandte Chemie - International Edition, 2016, 55, 5952-5955.	7.2	27
57	Monitoring Backbone Hydrogenâ€Bond Formation in Î²â€Barrel Membrane Protein Folding. Angewandte Chemie, 2016, 128, 6056-6059.	1.6	4
58	Engineering a Chemical Switch into the Lightâ€driven Proton Pump Proteorhodopsin by Cysteine Mutagenesis and Thiol Modification. Angewandte Chemie - International Edition, 2016, 55, 8846-8849.	7.2	21
59	<scp>GSDMD</scp> membrane pore formation constitutes the mechanism of pyroptotic cell death. EMBO Journal, 2016, 35, 1766-1778.	3.5	842
60	The biomechanical properties of an epithelial tissue determine the location of its vasculature. Nature Communications, 2016, 7, 13560.	5.8	20
61	YidC assists the stepwise and stochastic folding of membrane proteins. Nature Chemical Biology, 2016, 12, 911-917.	3.9	70
62	Rheology of the Active Cell Cortex in Mitosis. Biophysical Journal, 2016, 111, 589-600.	0.2	119
63	Unraveling the Pore-Forming Steps of Pneumolysin from <i>Streptococcus pneumoniae</i>. Nano Letters, 2016, 16, 7915-7924.	4.5	39
64	Engineering and Assembly of Protein Modules into Functional Molecular Systems. Chimia, 2016, 70, 398.	0.3	10
65	Molecular Plasticity of the Human Voltage-Dependent Anion Channel Embedded Into a Membrane. Structure, 2016, 24, 585-594.	1.6	36
66	SAS-6 engineering reveals interdependence between cartwheel and microtubules in determining centrioleÂarchitecture. Nature Cell Biology, 2016, 18, 393-403.	4.6	73
67	A glucose-starvation response regulates the diffusion of macromolecules. ELife, 2016, 5, .	2.8	151
68	Kindlin-2 cooperates with talin to activate integrins and induces cell spreading by directly binding paxillin. ELife, 2016, 5, e10130.	2.8	213
69	Mechanism of allosteric regulation of Î²2-adrenergic receptor by cholesterol. ELife, 2016, 5, .	2.8	115
70	In PC3 prostate cancer cells ephrin receptors crosstalk to Î²1-integrins to strengthen adhesion to collagen type I. Scientific Reports, 2015, 5, 8206.	1.6	18
71	Increasing throughput of AFM-based single cell adhesion measurements through multisubstrate surfaces. Beilstein Journal of Nanotechnology, 2015, 6, 157-166.	1.5	25
72	Identifying and quantifying two ligand-binding sites while imaging native human membrane receptors by AFM. Nature Communications, 2015, 6, 8857.	5.8	64

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73	Mitotic cells contract actomyosin cortex and generate pressure to round against or escape epithelial confinement. Nature Communications, 2015, 6, 8872.	5.8	79
74	Toward high-throughput biomechanical phenotyping of single molecules. Nature Methods, 2015, 12, 45-46.	9.0	9
75	Action of the Hsp70 chaperone system observed with single proteins. Nature Communications, 2015, 6, 6307.	5.8	58
76	Cdk1-dependent mitotic enrichment of cortical myosinÂII promotes cell rounding against confinement. Nature Cell Biology, 2015, 17, 148-159.	4.6	131
77	Imaging G proteinâ€"coupled receptors while quantifying their ligand-binding free-energy landscape. Nature Methods, 2015, 12, 845-851.	9.0	106
78	How To Minimize Artifacts in Atomistic Simulations of Membrane Proteins, Whose Crystal Structure Is Heavily Engineered: Î² ₂-Adrenergic Receptor in the Spotlight. Journal of Chemical Theory and Computation, 2015, 11, 3432-3445.	2.3	16
79	Single-Molecule Force Spectroscopy of Membrane Proteins from Membranes Freely Spanning Across Nanoscopic Pores. Nano Letters, 2015, 15, 3624-3633.	4.5	30
80	Observing a Lipid-Dependent Alteration in Single Lactose Permeases. Structure, 2015, 23, 754-761.	1.6	32
81	Mechanical control of mitotic progression in single animal cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11258-11263.	3.3	76
82	Neuronal uptake and propagation of a rare phosphorylated high-molecular-weight tau derived from Alzheimerâ€™s disease brain. Nature Communications, 2015, 6, 8490.	5.8	283
83	Directly Observing the Lipid-Dependent Self-Assembly and Pore-Forming Mechanism of the Cytolytic Toxin Listeriolysin O. Nano Letters, 2015, 15, 6965-6973.	4.5	74
84	Impact of holdase chaperones Skp and SurA on the folding of Î²-barrel outer-membrane proteins. Nature Structural and Molecular Biology, 2015, 22, 795-802.	3.6	108
85	Dynamic Single-Molecule Force Spectroscopy of Rhodopsin in Native Membranes. Methods in Molecular Biology, 2015, 1271, 173-185.	0.4	11
86	Stages and Conformations of the Tau Repeat Domain during Aggregation and Its Effect on Neuronal Toxicity. Journal of Biological Chemistry, 2014, 289, 20318-20332.	1.6	77
87	Oligomer Formation of Tau Protein Hyperphosphorylated in Cells. Journal of Biological Chemistry, 2014, 289, 34389-34407.	1.6	132
88	Dynamic coupling of ALCAM to the actin cortex strengthens cell adhesion to CD6. Journal of Cell Science, 2014, 127, 1595-606.	1.2	39
89	Products of the Parkinson's disease-related glyoxalase DJ-1, D-lactate and glycolate, support mitochondrial membrane potential and neuronal survival. Biology Open, 2014, 3, 777-784.	0.6	49
90	Single-Cell Force Spectroscopy, an Emerging Tool to Quantify Cell Adhesion to Biomaterials. Tissue Engineering - Part B: Reviews, 2014, 20, 40-55.	2.5	76

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91	Multiparametric high-resolution imaging of native proteins by force-distance curveâ€"based AFM. Nature Protocols, 2014, 9, 1113-1130.	5.5	95
92	Localizing Chemical Groups while Imaging Single Native Proteins by High-Resolution Atomic Force Microscopy. Nano Letters, 2014, 14, 2957-2964.	4.5	48
93	Substrate-induced changes in the structural properties of LacY. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1571-80.	3.3	40
94	Assay for characterizing the recovery of vertebrate cells for adhesion measurements by singleâ€cell force spectroscopy. FEBS Letters, 2014, 588, 3639-3648.	1.3	28
95	Quantification of surface tension and internal pressure generated by single mitotic cells. Scientific Reports, 2014, 4, 6213.	1.6	151
96	Nanomechanical Properties of Proteins and Membranes Depend on Loading Rate and Electrostatic Interactions. ACS Nano, 2013, 7, 2642-2650.	7.3	54
97	Mechanistic Explanation of Different Unfolding Behaviors Observed for Transmembrane and Soluble Î²-Barrel Proteins. Structure, 2013, 21, 1317-1324.	1.6	14
98	Wedged AFM-cantilevers for parallel plate cell mechanics. Methods, 2013, 60, 186-194.	1.9	65
99	A practical guide to quantify cell adhesion using single-cell force spectroscopy. Methods, 2013, 60, 169-178.	1.9	161
100	Multiparametric imaging of biological systems by force-distance curveâ€"based AFM. Nature Methods, 2013, 10, 847-854.	9.0	378
101	Quantitative Imaging of the Electrostatic Field and Potential Generated by a Transmembrane Protein Pore at Subnanometer Resolution. Nano Letters, 2013, 13, 5585-5593.	4.5	34
102	The fuzzy coat of pathological human Tau fibrils is a two-layered polyelectrolyte brush. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E313-21.	3.3	148
103	Kinetic, Energetic, and Mechanical Differences between Dark-State Rhodopsin and Opsin. Structure, 2013, 21, 426-437.	1.6	47
104	High-Resolution Imaging of 2D Outer Membrane Protein F Crystals by Atomic Force Microscopy. Methods in Molecular Biology, 2013, 955, 461-474.	0.4	4
105	Deciphering Teneurin Domains That Facilitate Cellular Recognition, Cellâ€"Cell Adhesion, and Neurite Outgrowth Using Atomic Force Microscopy-Based Single-Cell Force Spectroscopy. Nano Letters, 2013, 13, 2937-2946.	4.5	61
106	Single-molecule force spectroscopy of G-protein-coupled receptors. Chemical Society Reviews, 2013, 42, 7801.	18.7	27
107	Peptide transporter DtpA has two alternate conformations, one of which is promoted by inhibitor binding. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3978-86.	3.3	25
108	Quantifying Cellular Adhesion to Covalently Immobilized Extracellular Matrix Proteins by Single-Cell Force Spectroscopy. Methods in Molecular Biology, 2013, 1046, 19-37.	0.4	5

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109	Î±V-Integrins Are Required for Mechanotransduction in MDCK Epithelial Cells. PLoS ONE, 2013, 8, e71485.	1.1	22
110	Cholesterol increases kinetic, energetic, and mechanical stability of the human Î² ₂ -adrenergic receptor. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E3463-72.	3.3	142
111	Engineering rotor ring stoichiometries in the ATP synthase. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1599-608.	3.3	89
112	Ligand-Specific Interactions Modulate Kinetic, Energetic, and Mechanical Properties of the Human Î²2 Adrenergic Receptor. Structure, 2012, 20, 1391-1402.	1.6	87
113	Investigating Fibrillar Aggregates of Tau Protein by Atomic Force Microscopy. Methods in Molecular Biology, 2012, 849, 169-183.	0.4	7
114	Single-Molecule Force Spectroscopy from Nanodiscs: An Assay to Quantify Folding, Stability, and Interactions of Native Membrane Proteins. ACS Nano, 2012, 6, 961-971.	7.3	47
115	Biofunctionalization of Surfaces Using Ultrathin Nanoscopic Collagen Matrices. , 2012, , 427-441.		0
116	Out but Not In: The Large Transmembrane Î²-Barrel Protein FhuA Unfolds but Cannot Refold via Î²-Hairpins. Structure, 2012, 20, 2185-2190.	1.6	47
117	Structural, Energetic, and Mechanical Perturbations in Rhodopsin Mutant That Causes Congenital Stationary Night Blindness. Journal of Biological Chemistry, 2012, 287, 21826-21835.	1.6	26
118	Tracking mechanics and volume of globular cells with atomic force microscopy using a constant-height clamp. Nature Protocols, 2012, 7, 143-154.	5.5	45
119	The Transmembrane Protein KpOmpA Anchoring the Outer Membrane of Klebsiella pneumoniae Unfolds and Refolds in Response to Tensile Load. Structure, 2012, 20, 121-127.	1.6	38
120	High-resolution atomic force microscopy and spectroscopy of native membrane proteins. Reports on Progress in Physics, 2011, 74, 086601.	8.1	118
121	Five challenges to bringing single-molecule force spectroscopy into living cells. Nature Methods, 2011, 8, 123-127.	9.0	155
122	Hydrostatic pressure and the actomyosin cortex drive mitotic cell rounding. Nature, 2011, 469, 226-230.	13.7	576
123	Atomic force microscopy: a nanoscopic window on the cell surface. Trends in Cell Biology, 2011, 21, 461-469.	3.6	329
124	Force probing cell shape changes to molecular resolution. Trends in Biochemical Sciences, 2011, 36, 444-450.	3.7	27
125	Force nanoscopy of living cells. Current Biology, 2011, 21, R212-R216.	1.8	65
126	Force Generation: ATP-Powered Proteasomes Pull the Rope. Current Biology, 2011, 21, R427-R430.	1.8	2

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127	Locating an extracellular K⁺-dependent interaction site that modulates betaine-binding of the Na⁺-coupled betaine symporter BetP. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E890-8.	3.3	33
128	Retinal Pigment Epithelium Cell Alignment on Nanostructured Collagen Matrices. Cells Tissues Organs, 2011, 194, 443-456.	1.3	9
129	Seeing a Molecular Motor at Work. Science, 2011, 333, 704-705.	6.0	27
130	One Î² Hairpin Follows the Other: Exploring Refolding Pathways and Kinetics of the Transmembrane Î²â€Barrel Protein OmpG. Angewandte Chemie - International Edition, 2011, 50, 7422-7424.	7.2	32
131	Imaging and Quantifying Chemical and Physical Properties of Native Proteins at Molecular Resolution by Forceâ€"Volume AFM. Angewandte Chemie - International Edition, 2011, 50, 12103-12108.	7.2	90
132	Assessing the structure and function of single biomolecules with scanning transmission electron and atomic force microscopes. Micron, 2011, 42, 186-195.	1.1	34
133	Atomic Force Microscopy to Study Mechanics of Living Mitotic Mammalian Cells. Japanese Journal of Applied Physics, 2011, 50, 08LA01.	0.8	1
134	Gating of the MlotiK1 potassium channel involves large rearrangements of the cyclic nucleotide-binding domains. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20802-20807.	3.3	47
135	Competing Interactions Stabilize Pro- and Anti-aggregant Conformations of Human Tau. Journal of Biological Chemistry, 2011, 286, 20512-20524.	1.6	44
136	Studying Collagen Self-Assembly by Time-Lapse High-Resolution Atomic Force Microscopy. Methods in Molecular Biology, 2011, 736, 97-107.	0.4	10
137	Atomic Force Microscopy to Study Mechanics of Living Mitotic Mammalian Cells. Japanese Journal of Applied Physics, 2011, 50, 08LA01.	0.8	3
138	Probing the Interactions of Carboxy-atractyloside and Atractyloside with the Yeast Mitochondrial ADP/ATP Carrier. Structure, 2010, 18, 39-46.	1.6	42
139	Movement Directionality in Collective Migration of Germ Layer Progenitors. Current Biology, 2010, 20, 161-169.	1.8	111
140	Electrostatic Cell-Surface Repulsion Initiates Lumen Formation in Developing Blood Vessels. Current Biology, 2010, 20, 2003-2009.	1.8	124
141	A â€œForce Bufferâ€•Protecting Immunoglobulin Titin. Angewandte Chemie - International Edition, 2010, 49, 3528-3531.	7.2	23
142	The effect of unlocking RGD-motifs in collagen I on pre-osteoblast adhesion and differentiation. Biomaterials, 2010, 31, 2827-2835.	5.7	121
143	Stimulated singleâ€cell force spectroscopy to quantify cell adhesion receptor crosstalk. Proteomics, 2010, 10, 1455-1462.	1.3	35
144	Dual energy landscape: The functional state of the Î²â€barrel outer membrane protein G molds its unfolding energy landscape. Proteomics, 2010, 10, 4151-4162.	1.3	16

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145	Alignment and Cell-Matrix Interactions of Human Corneal Endothelial Cells on Nanostructured Collagen Type I Matrices. , 2010, 51, 6303.		33
146	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
147	Control of Directed Cell Migration In Vivo by Membrane-to-Cortex Attachment. PLoS Biology, 2010, 8, e1000544.	2.6	231
148	Conservation of Molecular Interactions Stabilizing Bovine and Mouse Rhodopsin. Biochemistry, 2010, 49, 10412-10420.	1.2	26
149	Quantifying cellular adhesion to extracellular matrix components by single-cell force spectroscopy. Nature Protocols, 2010, 5, 1353-1361.	5.5	172
150	pH-Induced Conformational Change of the Î²-Barrel-Forming Protein OmpG Reconstituted into Native E. coli Lipids. Journal of Molecular Biology, 2010, 396, 610-616.	2.0	48
151	pH-Dependent Interactions Guide the Folding and Gate the Transmembrane Pore of the Î²-Barrel Membrane Protein OmpG. Journal of Molecular Biology, 2010, 397, 878-882.	2.0	37
152	Substrate Binding Tunes Conformational Flexibility and Kinetic Stability of an Amino Acid Antiporter. Journal of Biological Chemistry, 2009, 284, 18651-18663.	1.6	36
153	Surface morphology and mechanical properties of fibroblasts from scleroderma patients. Journal of Cellular and Molecular Medicine, 2009, 13, 1644-1652.	1.6	22
154	One Î²â€...Hairpin after the Other: Exploring Mechanical Unfolding Pathways of the Transmembrane Î²â€Barrel Protein OmpG. Angewandte Chemie - International Edition, 2009, 48, 8306-8308.	7.2	38
155	Force probing surfaces of living cells to molecular resolution. Nature Chemical Biology, 2009, 5, 383-390.	3.9	430
156	Narrowâ€band UVBâ€induced Externalization of Selected Nuclear Antigens in Keratinocytes: Implications for Lupus Erythematosus Pathogenesis^{â€}. Photochemistry and Photobiology, 2009, 85, 1-7.	1.3	26
157	New frontiers in atomic force microscopy: analyzing interactions from single-molecules to cells. Current Opinion in Biotechnology, 2009, 20, 4-13.	3.3	72
158	Modulation of Molecular Interactions and Function by Rhodopsin Palmitylation. Biochemistry, 2009, 48, 4294-4304.	1.2	31
159	The c13 Ring from a Thermoalkaliphilic ATP Synthase Reveals an Extended Diameter Due to a Special Structural Region. Journal of Molecular Biology, 2009, 388, 611-618.	2.0	79
160	Conformational Adaptability of RedÎ² during DNA Annealing and Implications for Its Structural Relationship with Rad52. Journal of Molecular Biology, 2009, 391, 586-598.	2.0	73
161	Atomic force microscopy as a multifunctional molecular toolbox in nanobiotechnology. , 2009, , 269-277.		8
162	Probing Single Membrane Proteins by Atomic Force Microscopy. , 2009, , 449-485.		0

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163	Observing fibrillar assemblies on scrapie-infected cells. Pflugers Archiv European Journal of Physiology, 2008, 456, 83-93.	1.3	16
164	From Valleys to Ridges: Exploring the Dynamic Energy Landscape of Single Membrane Proteins. ChemPhysChem, 2008, 9, 954-966.	1.0	43
165	A Bond for a Lifetime: Employing Membrane Nanotubes from Living Cells to Determine Receptorâ€"Ligand Kinetics. Angewandte Chemie - International Edition, 2008, 47, 9775-9777.	7.2	70
166	Strategies to prepare and characterize native membrane proteins and protein membranes by AFM. Current Opinion in Colloid and Interface Science, 2008, 13, 338-350.	3.4	48
167	An intermediate step in the evolution of ATPases â€" a hybrid F₀â€"V₀ rotor in a bacterial Na⁺ F₁F₀ ATP synthase. FEBS Journal, 2008, 275, 1999-2007.	2.2	48
168	Atomic force microscopy as a multifunctional molecular toolbox in nanobiotechnology. Nature Nanotechnology, 2008, 3, 261-269.	15.6	678
169	TPA primes Î±2Î²1 integrins for cell adhesion. FEBS Letters, 2008, 582, 3520-3524.	1.3	28
170	Transducer Binding Establishes Localized Interactions to Tune Sensory Rhodopsin II. Structure, 2008, 16, 1206-1213.	1.6	30
171	AFM: A Nanotool in Membrane Biology. Biochemistry, 2008, 47, 7986-7998.	1.2	227
172	Role of Extracellular Glutamic Acids in the Stability and Energy Landscape of Bacteriorhodopsin. Biophysical Journal, 2008, 95, 3407-3418.	0.2	23
173	Mechanical Properties of Bovine Rhodopsin and Bacteriorhodopsin:â€‰ Possible Roles in Folding and Function. Langmuir, 2008, 24, 1330-1337.	1.6	43
174	Folding and Assembly of Proteorhodopsin. Journal of Molecular Biology, 2008, 376, 35-41.	2.0	96
175	Examining the Dynamic Energy Landscape of an Antiporter upon Inhibitor Binding. Journal of Molecular Biology, 2008, 375, 1258-1266.	2.0	30
176	Point Mutations in Membrane Proteins Reshape Energy Landscape and Populate Different Unfolding Pathways. Journal of Molecular Biology, 2008, 376, 1076-1090.	2.0	52
177	BCR/ABL Expression of Myeloid Progenitors Increases Î²1-Integrin Mediated Adhesion to Stromal Cells. Journal of Molecular Biology, 2008, 377, 1082-1093.	2.0	37
178	Single-cell force spectroscopy. Journal of Cell Science, 2008, 121, 1785-1791.	1.2	443
179	Galectin-3 Regulates Integrin Î±2Î²1-mediated Adhesion to Collagen-I and -IV. Journal of Biological Chemistry, 2008, 283, 32264-32272.	1.6	86
180	Fully automated single-molecule force spectroscopy for screening applications. Nanotechnology, 2008, 19, 384020.	1.3	32

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