K Tanuj Sapra

List of Publications by Year
in descending order

39	1,863	304368 22	360668 35
papers	citations	h-index	g-index

40	40	40	2206
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bend, Push, Stretch: Remarkable Structure and Mechanics of Single Intermediate Filaments and Meshworks. Cells, 2021, 10, 1960.	1.8	13
2	Nonlinear mechanics of lamin filaments and the meshwork topology build an emergent nuclear lamina. Nature Communications, 2020, 11, 6205.	5.8	40
3	Conformational Plasticity of Human Protease-Activated Receptor 1 upon Antagonist- and Agonist-Binding. Structure, 2019, 27, 1517-1526.e3.	1.6	8
4	Imaging and Force Spectroscopy of Single Transmembrane Proteins with the Atomic Force Microscope. Methods in Molecular Biology, 2019, 2003, 107-144.	0.4	0
5	Seeing and sensing single G protein-coupled receptors by atomic force microscopy. Current Opinion in Cell Biology, 2019, 57, 25-32.	2.6	18
6	Structural Properties of the Human Protease-Activated Receptor 1 Changing by a Strong Antagonist. Structure, 2018, 26, 829-838.e4.	1.6	13
7	Profilin 1â€“mediated cytoskeletal rearrangements regulate integrin function in mouse platelets. Blood Advances, 2018, 2, 1040-1045.	2.5	12
8	Single-Molecule Force Spectroscopy of Transmembrane Î²-Barrel Proteins. Annual Review of Analytical Chemistry, 2018, 11, 375-395.	2.8	21
9	The molecular architecture of lamins in somatic cells. Nature, 2017, 543, 261-264.	13.7	339
10	Multi-compartment encapsulation of communicating droplets and droplet networks in hydrogel as a model for artificial cells. Scientific Reports, 2017, 7, 45167.	1.6	66
11	Toward correlating structure and mechanics of platelets. Cell Adhesion and Migration, 2016, 10, 568-575.	1.1	23
12	The macromolecular architecture of platelet-derived microparticles. Journal of Structural Biology, 2016, 193, 181-187.	1.3	19
13	Roll, adhere, spread and contract: Structural mechanics of platelet function. European Journal of Cell Biology, 2015, 94, 129-138.	1.6	56
14	Developments in cryo-electron tomography for in situ structural analysis. Archives of Biochemistry and Biophysics, 2015, 581, 78-85.	1.4	22
15	Structural analysis of multicellular organisms with cryo-electron tomography. Nature Methods, 2015, 12, 634-636.	9.0	85
16	Construction and Manipulation of Functional Three-Dimensional Droplet Networks. ACS Nano, 2014, 8, 771-779.	7.3	52
17	An engineered dimeric protein pore that spans adjacent lipid bilayers. Nature Communications, 2013, 4, 1725.	5.8	44
18	Atomic Force Microscopy and Spectroscopy to Probe Single Membrane Proteins in Lipid Bilayers. Methods in Molecular Biology, 2013, 974, 73-110.	0.4	3

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19	Evolving protocells to prototissues: rational design of a missing link. Biochemical Society Transactions, 2013, 41, 1159-1165.	1.6	18
20	Lipid-coated hydrogel shapes as components of electrical circuits and mechanical devices. Scientific Reports, 2012, 2, 848.	1.6	37
21	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
22	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
23	Modulation of Molecular Interactions and Function by Rhodopsin Palmitylation. Biochemistry, 2009, 48, 4294-4304.	1.2	31
24	Probing Single Membrane Proteins by Atomic Force Microscopy. , 2009, , 449-485.		0
25	From Valleys to Ridges: Exploring the Dynamic Energy Landscape of Single Membrane Proteins. ChemPhysChem, 2008, 9, 954-966.	1.0	43
26	Role of Extracellular Glutamic Acids in the Stability and Energy Landscape of Bacteriorhodopsin. Biophysical Journal, 2008, 95, 3407-3418.	0.2	23
27	Mechanical Properties of Bovine Rhodopsin and Bacteriorhodopsin:â€‰ Possible Roles in Folding and Function. Langmuir, 2008, 24, 1330-1337.	1.6	43
28	Point Mutations in Membrane Proteins Reshape Energy Landscape and Populate Different Unfolding Pathways. Journal of Molecular Biology, 2008, 376, 1076-1090.	2.0	52
29	Stabilizing Effect of Zn2+ in Native Bovine Rhodopsin. Journal of Biological Chemistry, 2007, 282, 11377-11385.	1.6	61
30	A novel pattern recognition algorithm to classify membrane protein unfolding pathways with high-throughput single-molecule force spectroscopy. Bioinformatics, 2007, 23, e231-e236.	1.8	30
31	Deciphering Molecular Interactions of Native Membrane Proteins by Single-Molecule Force Spectroscopy. Annual Review of Biophysics and Biomolecular Structure, 2007, 36, 233-260.	18.3	124
32	Pattern Recognition of Single-Molecule Force Spectroscopy Data. , 2007, , 3-13.		0
33	Characterizing Molecular Interactions in Different Bacteriorhodopsin Assemblies by Single-molecule Force Spectroscopy. Journal of Molecular Biology, 2006, 355, 640-650.	2.0	93
34	Detecting Molecular Interactions that Stabilize Native Bovine Rhodopsin. Journal of Molecular Biology, 2006, 358, 255-269.	2.0	71
35	Imaging and detecting molecular interactions of single transmembrane proteins. Neurobiology of Aging, 2006, 27, 546-561.	1.5	38
36	Single-molecule studies of membrane proteins. Current Opinion in Structural Biology, 2006, 16, 489-495.	2.6	102

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37	A Structure-Based Analysis of Single Molecule Force Spectroscopy (SMFS) Data for Bacteriorhodopsin and Four Mutants. Lecture Notes in Computer Science, 2006, , 162-172.	1.0	0
38	Complex Stability of Single Proteins Explored by Forced Unfolding Experiments. Biophysical Journal, 2005, 88, L37-L39.	0.2	5
39	Differentiation of Cytoplasmic and Meiotic Spindle Assembly MCAK Functions by Aurora B-dependent Phosphorylation. Molecular Biology of the Cell, 2004, 15, 2895-2906.	0.9	202