Catherine Venien-Bryan

List of Publications by Year in descending order

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201674 214800 2,351 63 27 47 citations g-index h-index papers 66 66 66 3351 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Generation of protein lattices by fusing proteins with matching rotational symmetry. Nature Nanotechnology, 2011, 6, 558-562.	31.5	214
2	Structural Changes of the Prion Protein in Lipid Membranes Leading to Aggregation and Fibrillizationâ€. Biochemistry, 2003, 42, 3295-3304.	2.5	165
3	The 3-dimensional structure of a hepatitis C virus p7 ion channel by electron microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12712-12716.	7.1	139
4	Two Different Conformational States of the KirBac3.1 Potassium Channel Revealed by Electron Crystallography. Structure, 2005, 13, 1463-1472.	3.3	100
5	Binding of pulmonary surfactant proteins to carbon nanotubes; potential for damage to lung immune defense mechanisms. Carbon, 2007, 45, 607-617.	10.3	100
6	Structure of a KirBac potassium channel with an open bundle crossing indicates a mechanism of channel gating. Nature Structural and Molecular Biology, 2012, 19, 158-163.	8.2	92
7	Structural Analysis of the Anaphase-Promoting Complex Reveals Multiple Active Sites and Insights into Polyubiquitylation. Molecular Cell, 2005, 20, 855-866.	9.7	81
8	Characterization of the Growth of 2D Protein Crystals on a Lipid Monolayer by Ellipsometry and Rigidity Measurements Coupled to Electron Microscopy. Biophysical Journal, 1998, 74, 2649-2657.	0.5	76
9	Conformational Changes During the Gating of a Potassium Channel Revealed by Structural Mass Spectrometry. Structure, 2010, 18, 839-846.	3.3	76
10	The FANCD2–FANCI complex is recruited to DNA interstrand crosslinks before monoubiquitination of FANCD2. Nature Communications, 2016, 7, 12124.	12.8	69
11	Two-dimensional crystallization of a membrane protein on a detergent-resistant lipid monolayer 1 1Edited by R. Huber. Journal of Molecular Biology, 2001, 308, 639-647.	4.2	68
12	Global structural changes of an ion channel during its gating are followed by ion mobility mass spectrometry. Proceedings of the National Academy of Sciences of the United States of America, 2014, 17170-17175.	7.1	63
13	Studies of the ATPase activity of the ABC protein SUR1. FEBS Journal, 2007, 274, 3532-3544.	4.7	62
14	Copper Refolding of Prion Protein. Biochemical and Biophysical Research Communications, 2000, 276, 1217-1224.	2.1	56
15	Cryo-electron microscopy and X-ray crystallography: complementary approaches to structural biology and drug discovery. Acta Crystallographica Section F, Structural Biology Communications, 2017, 73, 174-183.	0.8	56
16	An unusual soluble Î ² -turn-rich conformation of prion is involved in fibril formation and toxic to neuronal cells. Biochemical and Biophysical Research Communications, 2005, 328, 292-305.	2.1	53
17	Structural study of the response regulator HupR from Rhodobacter capsulatus. electron microscopy of two-dimensional crystals on a nickel-chelating lipid. Journal of Molecular Biology, 1997, 274, 687-692.	4.2	52
18	Evidence for the Assembly of a Bacterial Tripartite Multidrug Pump with a Stoichiometry of 3:6:3. Journal of Biological Chemistry, 2011, 286, 26900-26912.	3.4	49

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19	Surface-Induced Polymerization of Actin. Biophysical Journal, 1999, 76, 1580-1590.	0.5	43
20	Topâ€down mass spectrometry of intact membrane protein complexes reveals oligomeric state and sequence information in a single experiment. Protein Science, 2015, 24, 1292-1300.	7.6	42
21	Synchrotron Radiation Diffraction from Two-Dimensional Protein Crystals at the Air/Water Interface. Biophysical Journal, 2000, 79, 496-500.	0.5	35
22	Modeling of an Ion Channel in Its Open Conformation. Biophysical Journal, 2005, 89, L01-L03.	0.5	35
23	Role of Aromatic Localization in the Gating Process of a Potassium Channel. Biophysical Journal, 2006, 90, L01-L03.	0.5	35
24	Protein structure determination by electron cryo-microscopy. Current Opinion in Pharmacology, 2009, 9, 636-642.	3.5	34
25	Separating speed and ability to displace roadblocks during DNA translocation by FtsK. EMBO Journal, 2010, 29, 1423-1433.	7.8	34
26	MicroRNA Biophysically Modulates Cardiac Action Potential by Direct Binding to Ion Channel. Circulation, 2021, 143, 1597-1613.	1.6	33
27	Regulation of Flagellum Number by FliA and FlgM and Role in Biofilm Formation by Rhodobacter sphaeroides. Journal of Bacteriology, 2011, 193, 4010-4014.	2.2	32
28	Direct Visualization of KirBac3.1 Potassium Channel Gating by Atomic Force Microscopy. Journal of Molecular Biology, 2007, 374, 500-505.	4.2	28
29	The Structure of Phosphorylase Kinase Holoenzyme at 9.9 Ã Resolution and Location of the Catalytic Subunit and the Substrate Glycogen Phosphorylase. Structure, 2009, 17, 117-127.	3.3	28
30	Two-Dimensional Crystallization of a Histidine-Tagged Protein on Monolayers of Fluidity-Enhanced Ni2+-Chelating Lipids. Langmuir, 2002, 18, 9502-9512.	3.5	27
31	Globular and pre-fibrillar prion aggregates are toxic to neuronal cells and perturb their electrophysiology. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2008, 1784, 873-881.	2.3	25
32	Three-Dimensional Structure of Phosphorylase Kinase at 22 \tilde{A} Resolution and Its Complex with Glycogen Phosphorylase b. Structure, 2002, 10, 33-41.	3.3	23
33	Utilization of interferometric light microscopy for the rapid analysis of virus abundance in a river. Research in Microbiology, 2017, 168, 413-418.	2.1	22
34	Control of KirBac3.1 Potassium Channel Gating at the Interface between Cytoplasmic Domains. Journal of Biological Chemistry, 2014, 289, 143-151.	3.4	20
35	Functional and structural differences between the prion protein from two alleles prnpa and prnpb of mouse. FEBS Journal, 2000, 267, 2452-2459.	0.2	19
36	Mouse TSPO in a lipid environment interacting with a functionalized monolayer. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2791-2800.	2.6	19

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37	A New Strategy for Atomic Flexible Fitting in Cryo-EM Maps by Molecular Dynamics with Excited Normal Modes (MDeNM-EMfit). Journal of Chemical Information and Modeling, 2020, 60, 2419-2423.	5.4	18
38	Effect of the C-terminal proline repeats on ordered packing of squid rhodopsin and its mobility in membranes. FEBS Letters, 1995, 359, 45-49.	2.8	16
39	Structural and Functional Studies of the Response Regulator HupR. Journal of Molecular Biology, 2006, 359, 276-288.	4.2	15
40	Synthesis of a hemifluorinated amphiphile designed for self-assembly and two-dimensional crystallization of membrane protein. Tetrahedron Letters, 2008, 49, 2247-2250.	1.4	15
41	The HupR Receiver Domain Crystal Structure in its Nonphospho and Inhibitory Phospho States. Journal of Molecular Biology, 2009, 385, 51-64.	4.2	15
42	Phosphotyrosine-dependentin vitroreconstitution of recombinant LAT-nucleated multiprotein signalling complexes on liposomes. Molecular Membrane Biology, 2009, 26, 159-170.	2.0	13
43	A Soluble VE-cadherin Fragment Forms 2D Arrays of Dimers upon Binding to a Lipid Monolayer. Journal of Molecular Biology, 2004, 337, 881-892.	4.2	12
44	Isolation, characterization and complete nucleotide sequence of a novel temperate bacteriophage Min1, isolated from the nematode pathogen Microbacterium nematophilum. Research in Microbiology, 2007, 158, 582-590.	2.1	12
45	Projection structure of a transcriptional regulator, HupR, determined by electron cryo-microscopy. Journal of Molecular Biology, 2000, 296, 863-871.	4.2	11
46	Calcineurin Bâ \in ike domains in the large regulatory $\hat{l}\pm/\hat{l}^2$ subunits of phosphorylase kinase. Proteins: Structure, Function and Bioinformatics, 2008, 71, 1597-1606.	2.6	11
47	Structural studies of virus–antibody immune complexes (poliovirus type I): Characterization of the epitopes in 3D. Molecular Immunology, 2015, 63, 279-286.	2.2	11
48	Structural and Functional Highlights of Vacuolar Soluble Protein 1 from Pathogen Trypanosoma brucei brucei. Journal of Biological Chemistry, 2015, 290, 30498-30513.	3.4	10
49	New Structural insights into Kir channel gating from molecular simulations, HDX-MS and functional studies. Scientific Reports, 2020, 10, 8392.	3.3	10
50	Oligomeric structure of the repressor of the bacteriophage Mu early operon. FEBS Journal, 1998, 252, 408-415.	0.2	9
51	Tetrameric structure of SUR2B revealed by electron microscopy of oriented single particles. FEBS Journal, 2013, 280, 1051-1063.	4.7	9
52	Growth of Large and Highly Ordered 2D Crystals of a K+ Channel, Structural Role of Lipidic Environment. Biophysical Journal, 2013, 105, 398-408.	0.5	8
53	Mapping of the epitopes of poliovirus type 2 in complex with antibodies. Molecular Immunology, 2015, 67, 233-239.	2.2	8
54	Unexpected Gating Behaviour of an Engineered Potassium Channel Kir. Frontiers in Molecular Biosciences, 2021, 8, 691901.	3.5	3

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55	Biochemistry, structure, and cellular internalization of a four nanobodyâ€bearing Fc dimer. Protein Science, 2021, 30, 1946-1957.	7.6	2
56	Structural modeling of a novel membrane-bound globin-coupled sensor in Geobacter sulfurreducens. Computational and Structural Biotechnology Journal, 2021, 19, 1874-1888.	4.1	1
57	The Structure Of Phosphorylase Kinase Holoenzyme At Subnanometer Resolution, Location Of The Catalytic Subunit And The Substrate Glycogen Phosphorylase. Biophysical Journal, 2009, 96, 413a.	0.5	O
58	Comparison of the Structure of a Bacterial Potassium Channel in Both 2D and 3D Crystals. Biophysical Journal, 2012, 102, 536a.	0.5	0
59	Monolayer Two-Dimensional Crystallization of Membrane Proteins. Methods in Molecular Biology, 2013, 955, 59-71.	0.9	O
60	The CRACAM Robot: Two-Dimensional Crystallization of Membrane Protein. Methods in Molecular Biology, 2017, 1635, 303-316.	0.9	0
61	Gating Mechanism of a Potassium Channel, Experimental and Theoretical Studies. Biophysical Journal, 2019, 116, 208a.	0.5	O
62	Structural and functional characterization of a human potassium channel, Kir2.1. Biophysical Journal, 2022, 121, 176a.	0.5	0
63	Integrative Study of the Structural and Dynamical Properties of a KirBac3.1 Mutant: Functional Implication of a Highly Conserved Tryptophan in the Transmembrane Domain. International Journal of Molecular Sciences, 2022, 23, 335.	4.1	0