

Rachelle Gaudet

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.

79
papers

5,825
citations

39
h-index

76
g-index

105
ext. papers

6,826
ext. citations

9.4
avg, IF

5.68
L-index

#	Paper	IF	Citations
79	Natural transformation protein ComFA exhibits single-stranded DNA translocase activity.. <i>Journal of Bacteriology</i> , 2022 , JB0051821	3.5	
78	Efficient and flexible synthesis of new photoactivatable propofol analogs. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021 , 39, 127927	2.9	1
77	Molecular Mechanism of Nramp-Family Transition Metal Transport. <i>Journal of Molecular Biology</i> , 2021 , 433, 166991	6.5	12
76	Advances in TRP channel drug discovery: from target validation to clinical studies. <i>Nature Reviews Drug Discovery</i> , 2021 ,	64.1	23
75	Dominant mutations of the Notch ligand Jagged1 cause peripheral neuropathy. <i>Journal of Clinical Investigation</i> , 2020 , 130, 1506-1512	15.9	3
74	Transmembrane helix 6b links proton and metal release pathways and drives conformational change in an Nramp-family transition metal transporter. <i>Journal of Biological Chemistry</i> , 2020 , 295, 12124-1224	5.4	1
73	Transmembrane helix 6b links proton and metal release pathways and drives conformational change in an Nramp-family transition metal transporter. <i>Journal of Biological Chemistry</i> , 2020 , 295, 12124-1224	5.4	4
72	Structural and functional diversity calls for a new classification of ABC transporters. <i>FEBS Letters</i> , 2020 , 594, 3767-3775	3.8	66
71	Selecting for Altered Substrate Specificity Reveals the Evolutionary Flexibility of ATP-Binding Cassette Transporters. <i>Current Biology</i> , 2020 , 30, 1689-1702.e6	6.3	5
70	Mechanics and pharmacology of substrate selection and transport by eukaryotic ABC exporters. <i>Nature Structural and Molecular Biology</i> , 2019 , 26, 792-801	17.6	30
69	Interaction specificity of clustered protocadherins inferred from sequence covariation and structural analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 17825-17830	11.5	17
68	Homozygous mutation causes congenital distal spinal muscular atrophy and arthrogryposis. <i>Neurology: Genetics</i> , 2019 , 5, e312	3.8	9
67	Structures in multiple conformations reveal distinct transition metal and proton pathways in an Nramp transporter. <i>ELife</i> , 2019 , 8,	8.9	23
66	Unique structural features in an Nramp metal transporter impart substrate-specific proton cotransport and a kinetic bias to favor import. <i>Journal of General Physiology</i> , 2019 , 151, 1413-1429	3.4	12
65	High-Affinity Alkynyl Bisubstrate Inhibitors of Nicotinamide -Methyltransferase (NNMT). <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 9837-9873	8.3	26
64	Author response: Structures in multiple conformations reveal distinct transition metal and proton pathways in an Nramp transporter 2019 ,		2
63	Batrachotoxin acts as a stent to hold open homotetrameric prokaryotic voltage-gated sodium channels. <i>Journal of General Physiology</i> , 2019 , 151, 186-199	3.4	11

62	Applications of sequence coevolution in membrane protein biochemistry. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018 , 1860, 895-908	3.8	19
61	Structural Basis of TRPV4 N-Terminus Interaction with Syndapin/PACSIN1-3 and PIP. <i>Structure</i> , 2018 , 26, 1583-1593.e5	5.2	18
60	A Partial Calcium-Free Linker Confers Flexibility to Inner-Ear Protocadherin-15. <i>Structure</i> , 2017 , 25, 482-495	4.9	18
59	Sites Contributing to TRPA1 Activation by the Anesthetic Propofol Identified by Photoaffinity Labeling. <i>Biophysical Journal</i> , 2017 , 113, 2168-2172	2.9	22
58	D-helix influences dimerization of the ATP-binding cassette (ABC) transporter associated with antigen processing 1 (TAP1) nucleotide-binding domain. <i>PLoS ONE</i> , 2017 , 12, e0178238	3.7	6
57	A widespread family of serine/threonine protein phosphatases shares a common regulatory switch with proteasomal proteases. <i>ELife</i> , 2017 , 6,	8.9	12
56	Conserved methionine dictates substrate preference in Nramp-family divalent metal transporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10310-5	11.5	51
55	Crystal Structure and Conformational Change Mechanism of a Bacterial Nramp-Family Divalent Metal Transporter. <i>Structure</i> , 2016 , 24, 2102-2114	5.2	37
54	Data publication with the structural biology data grid supports live analysis. <i>Nature Communications</i> , 2016 , 7, 10882	17.4	78
53	Antiparallel protocadherin homodimers use distinct affinity- and specificity-mediating regions in cadherin repeats 1-4. <i>ELife</i> , 2016 , 5,	8.9	34
52	Structural characterization of the late competence protein ComFB from <i>Bacillus subtilis</i> . <i>Bioscience Reports</i> , 2015 , 35,	4.1	6
51	Structure and Sequence Analyses of Clustered Protocadherins Reveal Antiparallel Interactions that Mediate Homophilic Specificity. <i>Structure</i> , 2015 , 23, 2087-98	5.2	47
50	The Touching Tail of a Mechanotransduction Channel. <i>Cell</i> , 2015 , 162, 1214-6	56.2	6
49	How the TRPA1 receptor transmits painful stimuli: Inner workings revealed by electron cryomicroscopy. <i>BioEssays</i> , 2015 , 37, 1184-92	4.1	20
48	Novel mutations highlight the key role of the ankyrin repeat domain in TRPV4-mediated neuropathy. <i>Neurology: Genetics</i> , 2015 , 1, e29	3.8	11
47	Sorting out a promiscuous superfamily: towards cadherin connectomics. <i>Trends in Cell Biology</i> , 2014 , 24, 524-36	18.3	64
46	Structural biology of TRP channels. <i>Handbook of Experimental Pharmacology</i> , 2014 , 223, 963-90	3.2	48
45	Phenotypic spectrum and incidence of TRPV4 mutations in patients with inherited axonal neuropathy. <i>Neurology</i> , 2014 , 83, 1991	6.5	1

44	Mechanistic determinants of the directionality and energetics of active export by a heterodimeric ABC transporter. <i>Nature Communications</i> , 2014 , 5, 5419	17.4	73
43	High-resolution views of TRPV1 and their implications for the TRP channel superfamily. <i>Handbook of Experimental Pharmacology</i> , 2014 , 223, 991-1004	3.2	12
42	What do we know about the transient receptor potential vanilloid 2 (TRPV2) ion channel?. <i>FEBS Journal</i> , 2013 , 280, 5471-87	5.7	105
41	Noddy, a mouse harboring a missense mutation in protocadherin-15, reveals the impact of disrupting a critical interaction site between tip-link cadherins in inner ear hair cells. <i>Journal of Neuroscience</i> , 2013 , 33, 4395-404	6.6	26
40	Phosphatidylinositol-4,5-biphosphate-dependent rearrangement of TRPV4 cytosolic tails enables channel activation by physiological stimuli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 9553-8	11.5	96
39	Chicken TAP genes are polymorphic and co-evolve with the dominantly-expressed class I gene. <i>Molecular Immunology</i> , 2012 , 51, 19-20	4.3	2
38	Distinct properties of Ca ²⁺ -calmodulin binding to N- and C-terminal regulatory regions of the TRPV1 channel. <i>Journal of General Physiology</i> , 2012 , 140, 541-55	3.4	81
37	Structural and biochemical consequences of disease-causing mutations in the ankyrin repeat domain of the human TRPV4 channel. <i>Biochemistry</i> , 2012 , 51, 6195-206	3.2	63
36	Structure of a force-conveying cadherin bond essential for inner-ear mechanotransduction. <i>Nature</i> , 2012 , 492, 128-32	50.4	110
35	Exome sequencing identifies a novel TRPV4 mutation in a CMT2C family. <i>Neurology</i> , 2012 , 79, 192-4	6.5	29
34	Mutations in TRPV4 cause Charcot-Marie-Tooth disease type 2C. <i>Nature Genetics</i> , 2010 , 42, 170-4	36.3	231
33	Characterization and structural studies of the Plasmodium falciparum ubiquitin and Nedd8 hydrolase UCHL3. <i>Journal of Biological Chemistry</i> , 2010 , 285, 6857-66	5.4	40
32	Differential regulation of TRPV1, TRPV3, and TRPV4 sensitivity through a conserved binding site on the ankyrin repeat domain. <i>Journal of Biological Chemistry</i> , 2010 , 285, 731-40	5.4	125
31	Dominant mutations in the cation channel gene transient receptor potential vanilloid 4 cause an unusual spectrum of neuropathies. <i>Brain</i> , 2010 , 133, 1798-809	11.2	95
30	Structural determinants of cadherin-23 function in hearing and deafness. <i>Neuron</i> , 2010 , 66, 85-100	13.9	93
29	Divide and conquer: high resolution structural information on TRP channel fragments. <i>Journal of General Physiology</i> , 2009 , 133, 231-7	3.4	42
28	Antigen processing and presentation: TAPping into ABC transporters. <i>Current Opinion in Immunology</i> , 2009 , 21, 84-91	7.8	40
27	The mechanism of ABC transporters: general lessons from structural and functional studies of an antigenic peptide transporter. <i>FASEB Journal</i> , 2009 , 23, 1287-302	0.9	135

26	TRP channels entering the structural era. <i>Journal of Physiology</i> , 2008 , 586, 3565-75	3.9	67
25	A primer on ankyrin repeat function in TRP channels and beyond. <i>Molecular BioSystems</i> , 2008 , 4, 372-9		147
24	Functionally important interactions between the nucleotide-binding domains of an antigenic peptide transporter. <i>Biochemistry</i> , 2008 , 47, 5699-708	3.2	15
23	Structural analyses of the ankyrin repeat domain of TRPV6 and related TRPV ion channels. <i>Biochemistry</i> , 2008 , 47, 2476-84	3.2	89
22	Genome-wide detection and characterization of positive selection in human populations. <i>Nature</i> , 2007 , 449, 913-8	50.4	1367
21	Insights into the roles of conserved and divergent residues in the ankyrin repeats of TRPV ion channels. <i>Channels</i> , 2007 , 1, 148-51	3	20
20	The role of the N terminus and transmembrane domain of TRPM8 in channel localization and tetramerization. <i>Journal of Biological Chemistry</i> , 2007 , 282, 36474-80	5.4	58
19	The ankyrin repeats of TRPV1 bind multiple ligands and modulate channel sensitivity. <i>Neuron</i> , 2007 , 54, 905-18	13.9	314
18	Structure of a herpesvirus-encoded cysteine protease reveals a unique class of deubiquitinating enzymes. <i>Molecular Cell</i> , 2007 , 25, 677-87	17.6	99
17	Structure of the N-terminal ankyrin repeat domain of the TRPV2 ion channel. <i>Journal of Biological Chemistry</i> , 2006 , 281, 25006-10	5.4	99
16	Distinct structural and functional properties of the ATPase sites in an asymmetric ABC transporter. <i>Molecular Cell</i> , 2006 , 24, 51-62	17.6	128
15	Structural Insights into the Function of TRP Channels. <i>Frontiers in Neuroscience</i> , 2006 , 349-360		2
14	Identification of domain boundaries within the N-termini of TAP1 and TAP2 and their importance in tapasin binding and tapasin-mediated increase in peptide loading of MHC class I. <i>Immunology and Cell Biology</i> , 2005 , 83, 475-82	5	45
13	Structure of the ubiquitin hydrolase UCH-L3 complexed with a suicide substrate. <i>Journal of Biological Chemistry</i> , 2005 , 280, 1512-20	5.4	155
12	Structural and functional analysis of human cytomegalovirus US3 protein. <i>Journal of Virology</i> , 2004 , 78, 413-23	6.6	29
11	Ubiquitylation of the transducin betagamma subunit complex. Regulation by phosphatidylinositol 3-kinase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 44566-75	5.4	49
10	Virus subversion of immunity: a structural perspective. <i>Current Opinion in Immunology</i> , 2001 , 13, 442-50	7.8	51
9	Identification of a structural motif that confers specific interaction with the WD40 repeat domain of Arabidopsis COP1. <i>EMBO Journal</i> , 2001 , 20, 118-27	13	178

8	Structure of the ABC ATPase domain of human TAP1, the transporter associated with antigen processing. <i>EMBO Journal</i> , 2001 , 20, 4964-72	13	209
7	Antigen presentation subverted: Structure of the human cytomegalovirus protein US2 bound to the class I molecule HLA-A2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 6794-9	11.5	129
6	A molecular mechanism for the phosphorylation-dependent regulation of heterotrimeric G proteins by phosducin. <i>Molecular Cell</i> , 1999 , 3, 649-60	17.6	77
5	Structural aspects of heterotrimeric G-protein signaling. <i>Current Opinion in Biotechnology</i> , 1997 , 8, 480-7	11.4	81
4	Crystal structure at 2.4 angstroms resolution of the complex of transducin betagamma and its regulator, phosducin. <i>Cell</i> , 1996 , 87, 577-88	56.2	265
3	Structures in multiple conformations reveal distinct transition metal and proton pathways in an Nramp transporter		1
2	Proton co-transport and voltage dependence enforce unidirectional metal transport in an Nramp transporter		3
1	Transmembrane helix 6b links proton- and metal-release pathways to drive conformational change in an Nramp transition metal transporter		1