

Randy B Stockbridge

List of Publications by Year in descending order

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33
papers

1,586
citations

430874

18
h-index

414414

32
g-index

45
all docs

45
docs citations

45
times ranked

1528
citing authors

#	ARTICLE	IF	CITATIONS
1	Widespread Genetic Switches and Toxicity Resistance Proteins for Fluoride. <i>Science</i> , 2012, 335, 233-235.	12.6	356
2	Metabolism of Free Guanidine in Bacteria Is Regulated by a Widespread Riboswitch Class. <i>Molecular Cell</i> , 2017, 65, 220-230.	9.7	129
3	Fluoride resistance and transport by riboswitch-controlled CLC antiporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15289-15294.	7.1	125
4	A family of fluoride-specific ion channels with dual-topology architecture. <i>ELife</i> , 2013, 2, e01084.	6.0	110
5	Crystal structures of a double-barrelled fluoride ion channel. <i>Nature</i> , 2015, 525, 548-551.	27.8	105
6	Bacterial fluoride resistance, Fluc channels, and the weak acid accumulation effect. <i>Journal of General Physiology</i> , 2014, 144, 257-261.	1.9	71
7	Guanidinium export is the primal function of SMR family transporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3060-3065.	7.1	62
8	The Intrinsic Reactivity of ATP and the Catalytic Proficiencies of Kinases Acting on Glucose, N-Acetylgalactosamine, and Homoserine. <i>Journal of Biological Chemistry</i> , 2009, 284, 22747-22757.	3.4	58
9	Molecular Mechanisms for Bacterial Potassium Homeostasis. <i>Journal of Molecular Biology</i> , 2021, 433, 166968.	4.2	57
10	Impact of temperature on the time required for the establishment of primordial biochemistry, and for the evolution of enzymes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 22102-22105.	7.1	49
11	Proof of dual-topology architecture of Fluc F ⁻ channels with monobody blockers. <i>Nature Communications</i> , 2014, 5, 5120.	12.8	47
12	F ⁻ /Cl ⁻ selectivity in CLCF-type F ⁻ /H ⁺ antiporters. <i>Journal of General Physiology</i> , 2014, 144, 129-136.	1.9	46
13	Fluoride-dependent interruption of the transport cycle of a CLC Cl ⁻ /H ⁺ antiporter. <i>Nature Chemical Biology</i> , 2013, 9, 721-725.	8.0	39
14	The structural basis of promiscuity in small multidrug resistance transporters. <i>Nature Communications</i> , 2020, 11, 6064.	12.8	35
15	A CLC-type F ⁻ /H ⁺ antiporter in ion-swapped conformations. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 601-606.	8.2	32
16	Enhancement of the Rate of Pyrophosphate Hydrolysis by Nonenzymatic Catalysts and by Inorganic Pyrophosphatase. <i>Journal of Biological Chemistry</i> , 2011, 286, 18538-18546.	3.4	30
17	Membrane Exporters of Fluoride Ion. <i>Annual Review of Biochemistry</i> , 2021, 90, 559-579.	11.1	28
18	Two-sided block of a dual-topology F ⁻ channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5697-5701.	7.1	20

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19	A topologically diverse family of fluoride channels. <i>Current Opinion in Structural Biology</i> , 2017, 45, 142-149.	5.7	18
20	An Interfacial Sodium Ion is an Essential Structural Feature of Fluc Family Fluoride Channels. <i>Journal of Molecular Biology</i> , 2020, 432, 1098-1108.	4.2	17
21	The rate of spontaneous cleavage of the glycosidic bond of adenosine. <i>Bioorganic Chemistry</i> , 2010, 38, 224-228.	4.1	16
22	Cork-in-Bottle Occlusion of Fluoride Ion Channels by Crystallization Chaperones. <i>Structure</i> , 2018, 26, 635-639.e1.	3.3	16
23	In vivo chloride concentrations surge to proteotoxic levels during acid stress. <i>Nature Chemical Biology</i> , 2018, 14, 1051-1058.	8.0	16
24	Phosphate Monoester Hydrolysis in Cyclohexane. <i>Journal of the American Chemical Society</i> , 2009, 131, 18248-18249.	13.7	15
25	Mechanism of single- and double-sided inhibition of dual topology fluoride channels by synthetic monobodies. <i>Journal of General Physiology</i> , 2017, 149, 511-522.	1.9	14
26	The fluoride permeation pathway and anion recognition in Fluc family fluoride channels. <i>ELife</i> , 2021, 10, .	6.0	14
27	Lipid Reconstitution and Recording of Recombinant Ion Channels. <i>Methods in Enzymology</i> , 2015, 556, 385-404.	1.0	13
28	N-terminal Transmembrane-Helix Epitope Tag for X-ray Crystallography and Electron Microscopy of Small Membrane Proteins. <i>Journal of Molecular Biology</i> , 2021, 433, 166909.	4.2	13
29	Crystal structures of bacterial small multidrug resistance transporter EmrE in complex with structurally diverse substrates. <i>ELife</i> , 2022, 11, .	6.0	13
30	The hydrolysis of phosphate diesters in cyclohexane and acetone. <i>Chemical Communications</i> , 2010, 46, 4306.	4.1	11
31	The application of Poisson distribution statistics in ion channel reconstitution to determine oligomeric architecture. <i>Methods in Enzymology</i> , 2021, 652, 321-340.	1.0	8
32	A clearer image of the structure and regulation of bestrophin. <i>Journal of General Physiology</i> , 2018, 150, 1469-1471.	1.9	1
33	Inroads into Membrane Physiology through Transport Nanomachines. <i>Journal of Molecular Biology</i> , 2021, 433, 167101.	4.2	1