Jens Peter Andersen

List of Publications by Year
in descending order

49 papers	3,129 citations	201658 27 h-index	197805 49 g-index
49 all docs	49 docs citations	49 times ranked	2756 citing authors

#	Article	IF	Citations
1	Crystal structure of the sodiumâ€“potassium pump. Nature, 2007, 450, 1043-1049.	27.8	789
2	A structural overview of the plasma membrane Na+,K+-ATPase and H+-ATPase ion pumps. Nature Reviews Molecular Cell Biology, 2011, 12, 60-70.	37.0	345
3	P4-ATPases as Phospholipid Flippasesâ€”Structure, Function, and Enigmas. Frontiers in Physiology, 2016, 7, 275.	2.8	252
4	Dissection of the functional domains of the sarcoplasmic reticulum Ca2+-ATPase by site-directed mutagenesis. Bioscience Reports, 1995, 15, 243-261.	2.4	128
5	Dissection of the Functional Differences between Sarco(endo)plasmic Reticulum Ca2+-ATPase (SERCA) 1 and 2 Isoforms and Characterization of Darier Disease (SERCA2) Mutants by Steady-state and Transient Kinetic Analyses. Journal of Biological Chemistry, 2003, 278, 47877-47889.	3.4	123
6	Critical roles of isoleucine-364 and adjacent residues in a hydrophobic gate control of phospholipid transport by the mammalian P4-ATPase ATP8A2. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1334-43.	7.1	103
7	Mutation to the Glutamate in the Fourth Membrane Segment of Na+,K+-ATPase and Ca2+-ATPase Affects Cation Binding from Both Sides of the Membrane and Destabilizes the Occluded Enzyme Formsâ€. Biochemistry, 1998, 37, 10961-10971.	2.5	88
8	Critical role of a transmembrane lysine in aminophospholipid transport by mammalian photoreceptor P ₄ -ATPase ATP8A2. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1449-1454.	7.1	88
9	Dissection of the Functional Differences between Sarco(endo)plasmic Reticulum Ca2+-ATPase (SERCA) 1 and 3 Isoforms by Steady-state and Transient Kinetic Analyses. Journal of Biological Chemistry, 2002, 277, 45579-45591.	3.4	85
10	Glutamate-183 in the conserved TGES motif of domain A of sarcoplasmic reticulum Ca2+-ATPase assists in catalysis of E2/E2P partial reactions. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 2776-2781.	7.1	71
11	Localization of a K+-binding Site Involved in Dephosphorylation of the Sarcoplasmic Reticulum Ca2+-ATPase. Journal of Biological Chemistry, 2004, 279, 46355-46358.	3.4	60
12	Fast Kinetic Analysis of Conformational Changes in Mutants of the Ca2+-ATPase of Sarcoplasmic Reticulum. Journal of Biological Chemistry, 2000, 275, 5400-5408.	3.4	56
13	The Rapid-onset Dystonia Parkinsonism Mutation D923N of the Na+,K+-ATPase Î±3 Isoform Disrupts Na+ Interaction at the Third Na+ Site. Journal of Biological Chemistry, 2010, 285, 26245-26254.	3.4	53
14	Proteomic Analysis and Functional Characterization of P4-ATPase Phospholipid Flippases from Murine Tissues. Scientific Reports, 2018, 8, 10795.	3.3	50
15	The C Terminus of Na+,K+-ATPase Controls Na+ Affinity on Both Sides of the Membrane through Arg935. Journal of Biological Chemistry, 2009, 284, 18715-18725.	3.4	49
16	Importance of Conserved N-domain Residues Thr441, Glu442, Lys515, Arg560, and Leu562 of Sarcoplasmic Reticulum Ca2+-ATPase for MgATP Binding and Subsequent Catalytic Steps. Journal of Biological Chemistry, 2003, 278, 20245-20258.	3.4	48
17	Mutation Lys758 â†’ Ile of the Sarcoplasmic Reticulum Ca2+-ATPase Enhances Dephosphorylation ofE 2 P and Inhibits theE 2 to E 1Ca2Transition. Journal of Biological Chemistry, 1997, 272, 30244-30253.	3.4	46
18	SERCA mutant E309Q binds two Ca²⁺ions but adopts a catalytically incompetent conformation. EMBO Journal, 2013, 32, 3231-3243.	7.8	44

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19	Interaction of Nucleotides with Asp351 and the Conserved Phosphorylation Loop of Sarcoplasmic Reticulum Ca2+-ATPase. Journal of Biological Chemistry, 1999, 274, 25227-25236.	3.4	43
20	Relationship between Intracellular Na+ Concentration and Reduced Na+ Affinity in Na+,K+-ATPase Mutants Causing Neurological Disease. Journal of Biological Chemistry, 2014, 289, 3186-3197.	3.4	38
21	Neurological disease mutations of Î±3 Na+,K+-ATPase: Structural and functional perspectives and rescue of compromised function. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1807-1828.	1.0	37
22	Mutational Analysis of the Conserved TGES Loop of Sarcoplasmic Reticulum Ca²⁺-ATPase. Journal of Biological Chemistry, 2006, 281, 31572-31582.	3.4	35
23	Crystal Structure of D351A and P312A Mutant Forms of the Mammalian Sarcoplasmic Reticulum Ca2+-ATPase Reveals Key Events in Phosphorylation and Ca2+ Release. Journal of Biological Chemistry, 2008, 283, 14867-14882.	3.4	35
24	Functional Consequences of Mutations in the Transmembrane Core Region for Cation Translocation and Energy Transduction in the Na+, K+-ATPase and the SR Ca2+-ATPase. Annals of the New York Academy of Sciences, 1997, 834, 297-309.	3.8	34
25	Importance of Stalk Segment S5 for Intramolecular Communication in the Sarcoplasmic Reticulum Ca2+-ATPase. Journal of Biological Chemistry, 2000, 275, 28954-28961.	3.4	33
26	Deduced amino acid sequence and E1-E2equilibrium of the sarcoplasmic reticulum Ca2+-ATPase of frog skeletal muscle Comparison with the Ca2+-ATPase of rabbit fast twitch muscle. FEBS Letters, 1992, 306, 213-218.	2.8	29
27	Mutational analysis of the role of Glu309in the sarcoplasmic reticulum Ca2+-ATPase of frog skeletal muscle. FEBS Letters, 1992, 306, 247-250.	2.8	28
28	Mutation of Gly-94 in transmembrane segment M1 of Na+,K+-ATPase interferes with Na+ and K+ binding in E2P conformation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11254-11259.	7.1	25
29	Equilibrium between monomers and oligomers of soluble Ca2+ -ATPase during the functional cycle. FEBS Letters, 1985, 189, 13-17.	2.8	22
30	Identification and functional analyses of disease-associated P4-ATPase phospholipid flippase variants in red blood cells. Journal of Biological Chemistry, 2019, 294, 6809-6821.	3.4	22
31	Disease mutations reveal residues critical to the interaction of P4-ATPases with lipid substrates. Scientific Reports, 2017, 7, 10418.	3.3	21
32	Effect of phospholipid, detergent and protein-protein interaction on stability and phosphoenzyme isomerization of soluble sarcoplasmic reticulum Ca-ATPase. FEBS Journal, 1987, 170, 421-429.	0.2	20
33	Phosphatidylserine flipping by the P4-ATPase ATP8A2 is electrogenic. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16332-16337.	7.1	19
34	Mutational analysis of Glu771of the Ca2+-ATPase of sarcoplasmic reticulum Effect of positive charge on dephosphorylation. FEBS Letters, 1994, 354, 93-96.	2.8	18
35	Functional Consequences of Alterations to Thr247, Pro248, Glu340, Asp813, Arg819, and Arg822 at the Interfaces between Domain P, M3, and L6-7 of Sarcoplasmic Reticulum Ca2+-ATPase. Journal of Biological Chemistry, 2004, 279, 54426-54437.	3.4	18
36	Arginine substitution of a cysteine in transmembrane helix M8 converts Na ⁺ ,K ⁺ -ATPase to an electroneutral pump similar to H ⁺ ,K ⁺ -ATPase. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 316-321.	7.1	18

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37	Chimeric Ca2+-ATPase/Na+,K+-ATPase molecules. FEBS Letters, 1993, 336, 248-254.	2.8	17
38	Distinct Roles of the C-terminal 11th Transmembrane Helix and Luminal Extension in the Partial Reactions Determining the High Ca2+ Affinity of Sarco(endo)plasmic Reticulum Ca2+-ATPase Isoform 2b (SERCA2b). Journal of Biological Chemistry, 2012, 287, 39460-39469.	3.4	17
39	Roles of Leu249, Lys252, and Leu253 in Membrane Segment M3 of Sarcoplasmic Reticulum Ca2+-ATPase in Control of Ca2+Migration and Long-Range Intramolecular Communicationâ€. Biochemistry, 2003, 42, 2585-2594.	2.5	16
40	Rescue of Na+ Affinity in Aspartate 928 Mutants of Na+,K+-ATPase by Secondary Mutation of Glutamate 314. Journal of Biological Chemistry, 2015, 290, 9801-9811.	3.4	14
41	Expression and functional characterization of missense mutations in ATP8A2 linked to severe neurological disorders. Human Mutation, 2019, 40, 2353-2364.	2.5	14
42	Asparagine 905 of the mammalian phospholipid flippase ATP8A2 is essential for lipid substrateâ€“induced activation of ATP8A2 dephosphorylation. Journal of Biological Chemistry, 2019, 294, 5970-5979.	3.4	14
43	Functional consequences of the CAPOS mutation E818K of Na+,K+-ATPase. Journal of Biological Chemistry, 2019, 294, 269-280.	3.4	14
44	The SERCA residue Glu340 mediates interdomain communication that guides Ca ²⁺ transport. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31114-31122.	7.1	12
45	Specific mutations in mammalian P4â€ATPase ATP8A2 catalytic subunit entail differential glycosylation of the accessory CDC50A subunit. FEBS Letters, 2015, 589, 3908-3914.	2.8	11
46	Distinct effects of Q925 mutation on intracellular and extracellular Na+ and K+ binding to the Na+, K+-ATPase. Scientific Reports, 2019, 9, 13344.	3.3	10
47	A Darier disease mutation relieves kinetic constraints imposed by the tail of sarco(endo)plasmic reticulum Ca2+-ATPase 2b. Journal of Biological Chemistry, 2018, 293, 3880-3889.	3.4	7
48	Mutagenesis of Residues Involved in Control of the Ca²⁺ Entry Pathway and Conformational Changes Associated with Ca²⁺ Binding in the SR Ca²⁺â€ATPase. Annals of the New York Academy of Sciences, 2003, 986, 72-81.	3.8	6
49	Radiation inactivation analysis of sarcoplasmic reticulum Ca-ATPase in membrane-bound form and in detergent-solubilized monomeric states. FEBS Letters, 1988, 234, 120-126.	2.8	4