

Susanna TÃ¶rnroth-Horsefield

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

2,650
citations

331670

21
h-index

361022

35
g-index

35
all docs

35
docs citations

35
times ranked

2804
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural mechanism of plant aquaporin gating. <i>Nature</i> , 2006, 439, 688-694.	27.8	752
2	Targeting Aquaporin-4 Subcellular Localization to Treat Central Nervous System Edema. <i>Cell</i> , 2020, 181, 784-799.e19.	28.9	271
3	High-resolution x-ray structure of human aquaporin 5. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 13327-13332.	7.1	194
4	Structural insights into eukaryotic aquaporin regulation. <i>FEBS Letters</i> , 2010, 584, 2580-2588.	2.8	137
5	X-ray structure of human aquaporin 2 and its implications for nephrogenic diabetes insipidus and trafficking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6305-6310.	7.1	124
6	Aquaporin gating. <i>Current Opinion in Structural Biology</i> , 2006, 16, 447-456.	5.7	117
7	Structural insights into aquaporin selectivity and regulation. <i>Current Opinion in Structural Biology</i> , 2015, 33, 126-134.	5.7	111
8	Emerging roles for dynamic aquaporin-4 subcellular relocalization in CNS water homeostasis. <i>Brain</i> , 2022, 145, 64-75.	7.6	99
9	Structural and Functional Analysis of SoPIP2;1 Mutants Adds Insight into Plant Aquaporin Gating. <i>Journal of Molecular Biology</i> , 2009, 387, 653-668.	4.2	95
10	Crystal Structure of AcrB in Complex with a Single Transmembrane Subunit Reveals Another Twist. <i>Structure</i> , 2007, 15, 1663-1673.	3.3	88
11	Opening and closing the metabolite gate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19565-19566.	7.1	77
12	Structural basis for pH gating of plant aquaporins. <i>FEBS Letters</i> , 2013, 587, 989-993.	2.8	67
13	Aquaporin Protein-Protein Interactions. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2255.	4.1	58
14	Phosphorylation-Dependent Regulation of Mammalian Aquaporins. <i>Cells</i> , 2019, 8, 82.	4.1	56
15	Plasma Membrane Abundance of Human Aquaporin 5 Is Dynamically Regulated by Multiple Pathways. <i>PLoS ONE</i> , 2015, 10, e0143027.	2.5	54
16	Mercury increases water permeability of a plant aquaporin through a non-cysteine-related mechanism. <i>Biochemical Journal</i> , 2013, 454, 491-499.	3.7	47
17	Water channel pore size determines exclusion properties but not solute selectivity. <i>Scientific Reports</i> , 2019, 9, 20369.	3.3	41
18	On-chip crystallization for serial crystallography experiments and on-chip ligand-binding studies. <i>IUCr</i> , 2019, 6, 714-728.	2.2	41

#	ARTICLE	IF	CITATIONS
19	Molecular mechanisms governing aquaporin relocalisation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022, 1864, 183853.	2.6	41
20	Coping with oxidative stress. <i>Science</i> , 2015, 347, 125-126.	12.6	28
21	Phosphorylation of human aquaporin 2 (AQP2) allosterically controls its interaction with the lysosomal trafficking protein LIP5. <i>Journal of Biological Chemistry</i> , 2017, 292, 14636-14648.	3.4	23
22	High Resolution Protein Crystals Using an Efficient Convection-Free Geometry. <i>Crystal Growth and Design</i> , 2013, 13, 775-781.	3.0	19
23	Protein-protein interactions in AQP regulation – biophysical characterization of AQP0-CaM and AQP2-LIP5 complex formation. <i>Faraday Discussions</i> , 2018, 209, 35-54.	3.2	16
24	Moonlighting of <i>Haemophilus influenzae</i> heme acquisition systems contributes to the host airway-pathogen interplay in a coordinated manner. <i>Virulence</i> , 2019, 10, 315-333.	4.4	16
25	Unraveling Human AQP5-PIP Molecular Interaction and Effect on AQP5 Salivary Glands Localization in SS Patients. <i>Cells</i> , 2021, 10, 2108.	4.1	15
26	A microfluidic strategy for the detection of membrane protein interactions. <i>Lab on A Chip</i> , 2020, 20, 3230-3238.	6.0	13
27	Ezrin Is a Novel Protein Partner of Aquaporin-5 in Human Salivary Glands and Shows Altered Expression and Cellular Localization in Sjögren's Syndrome. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9213.	4.1	13
28	<i>Haemophilus influenzae</i> Type f Hijacks Vitronectin Using Protein H To Resist Host Innate Immunity and Adhere to Pulmonary Epithelial Cells. <i>Journal of Immunology</i> , 2015, 195, 5688-5695.	0.8	10
29	Structural Insights into AQP2 Targeting to Multivesicular Bodies. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5351.	4.1	10
30	Phosphorylation of human AQP2 and its role in trafficking. <i>Vitamins and Hormones</i> , 2020, 112, 95-117.	1.7	7
31	Affinity tags can reduce merohedral twinning of membrane protein crystals. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2008, 64, 1183-1186.	2.5	4
32	Cell-free production and characterisation of human uncoupling protein 1-3. <i>Biochemistry and Biophysics Reports</i> , 2017, 10, 276-281.	1.3	3
33	High-yield overproduction and purification of human aquaporins from <i>Pichia pastoris</i> . <i>STAR Protocols</i> , 2022, 3, 101298.	1.2	1
34	Characterization of human aquaporin protein-protein interactions using microscale thermophoresis (MST). <i>STAR Protocols</i> , 2022, 3, 101316.	1.2	1
35	Assessing water permeability of aquaporins in a proteoliposome-based stopped-flow setup. <i>STAR Protocols</i> , 2022, 3, 101312.	1.2	1