

Mootaz M Salman

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,837
citations

393982

19
h-index

642321

23
g-index

27
all docs

27
docs citations

27
times ranked

1666
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeting Aquaporin-4 Subcellular Localization to Treat Central Nervous System Edema. <i>Cell</i> , 2020, 181, 784-799.e19.	13.5	271
2	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Ion channels. <i>British Journal of Pharmacology</i> , 2021, 178, S157-S245.	2.7	187
3	The energetic brain "A review from students to students. <i>Journal of Neurochemistry</i> , 2019, 151, 139-165.	2.1	148
4	Beyond water homeostasis: Diverse functional roles of mammalian aquaporins. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 2410-2421.	1.1	127
5	Emerging roles for dynamic aquaporin-4 subcellular relocalization in CNS water homeostasis. <i>Brain</i> , 2022, 145, 64-75.	3.7	99
6	High-Throughput Screening Platforms in the Discovery of Novel Drugs for Neurodegenerative Diseases. <i>Bioengineering</i> , 2021, 8, 30.	1.6	98
7	The effects of trifluoperazine on brain edema, aquaporin-4 expression and metabolic markers during the acute phase of stroke using photothrombotic mouse model. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183573.	1.4	98
8	Identification and Molecular Mechanisms of the Rapid Tonicity-induced Relocalization of the Aquaporin 4 Channel. <i>Journal of Biological Chemistry</i> , 2015, 290, 16873-16881.	1.6	97
9	Inhibitors of Mammalian Aquaporin Water Channels. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1589.	1.8	88
10	Design and Validation of a Human Brain Endothelial Microvessel-on-a-Chip Open Microfluidic Model Enabling Advanced Optical Imaging. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 573775.	2.0	88
11	Hypothermia increases aquaporin 4 (AQP4) plasma membrane abundance in human primary cortical astrocytes via a calcium/transient receptor potential vanilloid 4 (TRPV4)-and calmodulin-mediated mechanism. <i>European Journal of Neuroscience</i> , 2017, 46, 2542-2547.	1.2	86
12	Advances in Applying Computer-Aided Drug Design for Neurodegenerative Diseases. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4688.	1.8	73
13	Recent breakthroughs and future directions in drugging aquaporins. <i>Trends in Pharmacological Sciences</i> , 2022, 43, 30-42.	4.0	60
14	Aquaporin 4 and glymphatic flow have central roles in brain fluid homeostasis. <i>Nature Reviews Neuroscience</i> , 2021, 22, 650-651.	4.9	59
15	Transcriptome analysis suggests a role for the differential expression of cerebral aquaporins and the MAPK signalling pathway in human temporal lobe epilepsy. <i>European Journal of Neuroscience</i> , 2017, 46, 2121-2132.	1.2	56
16	Transcriptome Analysis of Gene Expression Provides New Insights into the Effect of Mild Therapeutic Hypothermia on Primary Human Cortical Astrocytes Cultured under Hypoxia. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 386.	1.8	50
17	Signaling Mechanisms and Pharmacological Modulators Governing Diverse Aquaporin Functions in Human Health and Disease. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1388.	1.8	50
18	Water channel pore size determines exclusion properties but not solute selectivity. <i>Scientific Reports</i> , 2019, 9, 20369.	1.6	41

#	ARTICLE	IF	CITATIONS
19	Molecular mechanisms governing aquaporin relocalisation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022, 1864, 183853.	1.4	41
20	Calcein Fluorescence Quenching to Measure Plasma Membrane Water Flux in Live Mammalian Cells. <i>STAR Protocols</i> , 2020, 1, 100157.	0.5	15
21	High-yield overproduction and purification of human aquaporins from <i>Pichia pastoris</i> . <i>STAR Protocols</i> , 2022, 3, 101298.	0.5	1
22	Characterization of human aquaporin protein-protein interactions using microscale thermophoresis (MST). <i>STAR Protocols</i> , 2022, 3, 101316.	0.5	1
23	Assessing water permeability of aquaporins in a proteoliposome-based stopped-flow setup. <i>STAR Protocols</i> , 2022, 3, 101312.	0.5	1
24	Aquaporins in GtoPdb v.2021.3. <i>IUPHAR/BPS Guide To Pharmacology CITE</i> , 2021, 2021, .	0.2	0
25	Tonicity-regulated AQP1 translocation in mammalian cells and the protective effect of Mannitol on the swelling of brain astrocytes. <i>FASEB Journal</i> , 2013, 27, 1b230.	0.2	0
26	Aquaporins (version 2020.4) in the <i>IUPHAR/BPS Guide to Pharmacology Database</i> . <i>IUPHAR/BPS Guide To Pharmacology CITE</i> , 2020, 2020, .	0.2	0