

# 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	Emerging roles for dynamic aquaporin-4 subcellular relocalization in CNS water homeostasis. <i>Brain</i> , 2022, 145, 64-75.	3.7	99
2	Recent breakthroughs and future directions in drugging aquaporins. <i>Trends in Pharmacological Sciences</i> , 2022, 43, 30-42.	4.0	60
3	Molecular mechanisms governing aquaporin relocalisation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022, 1864, 183853.	1.4	41
4	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
5	High-yield overproduction and purification of human aquaporins from <i>Pichia pastoris</i> . <i>STAR Protocols</i> , 2022, 3, 101298.	0.5	1
6	Characterization of human aquaporin protein-protein interactions using microscale thermophoresis (MST). <i>STAR Protocols</i> , 2022, 3, 101316.	0.5	1
7	Assessing water permeability of aquaporins in a proteoliposome-based stopped-flow setup. <i>STAR Protocols</i> , 2022, 3, 101312.	0.5	1
8	High-Throughput Screening Platforms in the Discovery of Novel Drugs for Neurodegenerative Diseases. <i>Bioengineering</i> , 2021, 8, 30.	1.6	98
9	Advances in Applying Computer-Aided Drug Design for Neurodegenerative Diseases. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4688.	1.8	73
10	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
11	Aquaporin 4 and glymphatic flow have central roles in brain fluid homeostasis. <i>Nature Reviews Neuroscience</i> , 2021, 22, 650-651.	4.9	59
12	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Ion channels. <i>British Journal of Pharmacology</i> , 2021, 178, S157-S245.	2.7	187
13	Aquaporins in GtoPdb v.2021.3. IUPHAR/BPS Guide To Pharmacology CITE, 2021, 2021, .	0.2	0
14	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
15	Calcein Fluorescence Quenching to Measure Plasma Membrane Water Flux in Live Mammalian Cells. <i>STAR Protocols</i> , 2020, 1, 100157.	0.5	15
16	Targeting Aquaporin-4 Subcellular Localization to Treat Central Nervous System Edema. <i>Cell</i> , 2020, 181, 784-799.e19.	13.5	271
17	Aquaporins (version 2020.4) in the IUPHAR/BPS Guide to Pharmacology Database. IUPHAR/BPS Guide To Pharmacology CITE, 2020, 2020, .	0.2	0
18	The energetic brain â€“ A review from students to students. <i>Journal of Neurochemistry</i> , 2019, 151, 139-165.	2.1	148

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19	Inhibitors of Mammalian Aquaporin Water Channels. International Journal of Molecular Sciences, 2019, 20, 1589.	1.8	88
20	Water channel pore size determines exclusion properties but not solute selectivity. Scientific Reports, 2019, 9, 20369.	1.6	41
21	Hypothermia increases aquaporin 4 (<sc>AQP</sc>4) plasma membrane abundance in human primary cortical astrocytes via a calcium/transient receptor potential vanilloid 4 (<sc>TRPV</sc>4)â€•and calmodulinâ€•mediated mechanism. European Journal of Neuroscience, 2017, 46, 2542-2547.	1.2	86
22	Transcriptome analysis suggests a role for the differential expression of cerebral aquaporins and the <sc>MAPK</sc> signalling pathway in human temporal lobe epilepsy. European Journal of Neuroscience, 2017, 46, 2121-2132.	1.2	56
23	Transcriptome Analysis of Gene Expression Provides New Insights into the Effect of Mild Therapeutic Hypothermia on Primary Human Cortical Astrocytes Cultured under Hypoxia. Frontiers in Cellular Neuroscience, 2017, 11, 386.	1.8	50
24	Identification and Molecular Mechanisms of the Rapid Tonicity-induced Relocalization of the Aquaporin 4 Channel. Journal of Biological Chemistry, 2015, 290, 16873-16881.	1.6	97
25	Beyond water homeostasis: Diverse functional roles of mammalian aquaporins. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 2410-2421.	1.1	127
26	Tonicityâ€•regulated AQP1 translocation in mammalian cells and the protective effect of Mannitol on the swelling of brain astrocytes. FASEB Journal, 2013, 27, lb230.	0.2	0