

Joachim W Deitmer

List of Publications by Year in descending order

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45
papers

2,230
citations

218677

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docs citations

46
times ranked

2430
citing authors

#	ARTICLE	IF	CITATIONS
1	Proton Transport in Cancer Cells: The Role of Carbonic Anhydrases. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3171.	4.1	19
2	14-3-3 Proteins and Other Candidates form Protein-Protein Interactions with the Cytosolic C-terminal End of SOS1 Affecting Its Transport Activity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3334.	4.1	13
3	Transport Metabolons and Acid/Base Balance in Tumor Cells. <i>Cancers</i> , 2020, 12, 899.	3.7	21
4	Cytosolic sodium regulation in mouse cortical astrocytes and its dependence on potassium and bicarbonate. <i>Journal of Cellular Physiology</i> , 2019, 234, 89-99.	4.1	13
5	Functional expression of electrogenic sodium bicarbonate cotransporter 1 (NBCe1) in mouse cortical astrocytes is dependent on S255 and regulated by mTOR. <i>Glia</i> , 2019, 67, 2264-2278.	4.9	9
6	Catalytically inactive carbonic anhydrase-related proteins enhance transport of lactate by MCT1. <i>FEBS Open Bio</i> , 2019, 9, 1204-1211.	2.3	13
7	Energy Dynamics in the Brain: Contributions of Astrocytes to Metabolism and pH Homeostasis. <i>Frontiers in Neuroscience</i> , 2019, 13, 1301.	2.8	77
8	Tight coupling of astrocyte energy metabolism to synaptic activity revealed by genetically encoded FRET nanosensors in hippocampal tissue. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 513-523.	4.3	58
9	Neuronal control of astrocytic respiration through a variant of the Crabtree effect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1623-1628.	7.1	48
10	A surface proton antenna in carbonic anhydrase II supports lactate transport in cancer cells. <i>ELife</i> , 2018, 7, .	6.0	53
11	TGF β signaling directly regulates transcription and functional expression of the electrogenic sodium bicarbonate cotransporter 1, NBCe1 (SLC4A4), via Smad4 in mouse astrocytes. <i>Glia</i> , 2017, 65, 1361-1375.	4.9	15
12	Bicarbonate sensing in mouse cortical astrocytes during extracellular acid/base disturbances. <i>Journal of Physiology</i> , 2017, 595, 2569-2585.	2.9	19
13	Reduction of epileptiform activity in ketogenic mice: The role of monocarboxylate transporters. <i>Scientific Reports</i> , 2017, 7, 4900.	3.3	18
14	Integration of a proton antenna facilitates transport activity of the monocarboxylate transporter MCT4. <i>FEBS Journal</i> , 2017, 284, 149-162.	4.7	20
15	The inhibitory input to mouse cerebellar Purkinje cells is reciprocally modulated by Bergmann glial P2Y1 and AMPA receptor signaling. <i>Glia</i> , 2016, 64, 1265-1280.	4.9	13
16	Aquaporin 4 as a NH ₃ Channel. <i>Journal of Biological Chemistry</i> , 2016, 291, 19184-19195.	3.4	27
17	Proton Fall or Bicarbonate Rise. <i>Journal of Biological Chemistry</i> , 2016, 291, 19108-19117.	3.4	21
18	Selective inhibition of human carbonic anhydrase IX in <i>Xenopus</i> oocytes and MDA-MB-231 breast cancer cells. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 38-44.	5.2	10

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19	Targeting of astrocytic glucose metabolism by beta-hydroxybutyrate. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1813-1822.	4.3	54
20	Reversed electrogenic sodium bicarbonate cotransporter ¹ is the major acid loader during recovery from cytosolic alkalosis in mouse cortical astrocytes. <i>Journal of Physiology</i> , 2015, 593, 3533-3547.	2.9	42
21	Hypoxia-induced carbonic anhydrase IX facilitates lactate flux in human breast cancer cells by non-catalytic function. <i>Scientific Reports</i> , 2015, 5, 13605.	3.3	109
22	Regulation of functional expression of the electrogenic sodium bicarbonate cotransporter 1, NBCe1 (<i>SLC4A4</i>), in mouse astrocytes. <i>Glia</i> , 2015, 63, 1226-1239.	4.9	13
23	High effective cytosolic H ⁺ buffering in mouse cortical astrocytes attributable to fast bicarbonate transport. <i>Glia</i> , 2015, 63, 1581-1594.	4.9	29
24	Inhibition of monocarboxylate transporter by N-cyanosulphonamide S0859. <i>European Journal of Pharmacology</i> , 2015, 762, 344-349.	3.5	26
25	H95 Is a pH-Dependent Gate in Aquaporin 4. <i>Structure</i> , 2015, 23, 2309-2318.	3.3	47
26	Analysis of the Binding Moiety Mediating the Interaction between Monocarboxylate Transporters and Carbonic Anhydrase II. <i>Journal of Biological Chemistry</i> , 2015, 290, 4476-4486.	3.4	30
27	The Electrogenic Sodium Bicarbonate Cotransporter NBCe1 Is a High-Affinity Bicarbonate Carrier in Cortical Astrocytes. <i>Journal of Neuroscience</i> , 2014, 34, 1148-1157.	3.6	55
28	Higher Transport and Metabolism of Glucose in Astrocytes Compared with Neurons: A Multiphoton Study of Hippocampal and Cerebellar Tissue Slices. <i>Cerebral Cortex</i> , 2014, 24, 222-231.	2.9	91
29	The role of membrane acid/base transporters and carbonic anhydrases for cellular pH and metabolic processes. <i>Frontiers in Neuroscience</i> , 2014, 8, 430.	2.8	17
30	Carbonic Anhydrases and Their Interplay with Acid/Base-Coupled Membrane Transporters. <i>Sub-Cellular Biochemistry</i> , 2014, 75, 105-134.	2.4	43
31	Transport metabolons with carbonic anhydrases. <i>Frontiers in Physiology</i> , 2013, 4, 291.	2.8	32
32	Lactate flux in astrocytes is enhanced by a non-catalytic action of carbonic anhydrase II. <i>Journal of Physiology</i> , 2012, 590, 2333-2351.	2.9	63
33	Transport Activity of the Sodium Bicarbonate Cotransporter NBCe1 Is Enhanced by Different Isoforms of Carbonic Anhydrase. <i>PLoS ONE</i> , 2011, 6, e27167.	2.5	39
34	Glucose and lactate supply to the synapse. <i>Brain Research Reviews</i> , 2010, 63, 149-159.	9.0	139
35	Ion changes and signalling in perisynaptic glia. <i>Brain Research Reviews</i> , 2010, 63, 113-129.	9.0	85
36	Carbonic Anhydrase II Increases the Activity of the Human Electrogenic Na ⁺ /HCO ₃ ⁻ Cotransporter. <i>Journal of Biological Chemistry</i> , 2007, 282, 13508-13521.	3.4	113

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37	Voltage Dependence of H ⁺ Buffering Mediated by Sodium Bicarbonate Cotransport Expressed in Xenopus Oocytes. <i>Journal of Biological Chemistry</i> , 2004, 279, 28057-28062.	3.4	37
38	Facilitated Lactate Transport by MCT1 when Coexpressed with the Sodium Bicarbonate Cotransporter (NBC) in Xenopus Oocytes. <i>Biophysical Journal</i> , 2004, 86, 235-247.	0.5	86
39	Glutamine efflux from astrocytes is mediated by multiple pathways. <i>Journal of Neurochemistry</i> , 2003, 87, 127-135.	3.9	115
40	A role for CO ₂ and bicarbonate transporters in metabolic exchanges in the brain. <i>Journal of Neurochemistry</i> , 2002, 80, 721-726.	3.9	34
41	Strategies for metabolic exchange between glial cells and neurons. <i>Respiration Physiology</i> , 2001, 129, 71-81.	2.7	63
42	Acid/base transport across the leech giant glial cell membrane at low external bicarbonate concentration. <i>Journal of Physiology</i> , 1998, 512, 459-469.	2.9	20
43	Glycine-activated currents are changed by coincident membrane depolarization in developing rat auditory brainstem neurones. <i>Journal of Physiology</i> , 1998, 507, 783-794.	2.9	42
44	pH regulation and proton signalling by glial cells. <i>Progress in Neurobiology</i> , 1996, 48, 73-103.	5.7	289
45	Evidence for glial control of extracellular pH in the leech central nervous system. <i>Glia</i> , 1992, 5, 43-47.	4.9	50