

# Walter F Boron

## List of Publications by Year in descending order

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231  
papers

14,503  
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24978

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234  
docs citations

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times ranked

8827  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbonic anhydrase and soluble adenylylase regulation of cystic fibrosis cellular phenotypes. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2022, 322, L333-L347.	1.3	4
2	Inhibition by acetazolamide of reactivated carbonic anhydrase activity in a receptor protein tyrosine phosphatase $\hat{1}^3$ (RPTP $\hat{1}^3$ ) mutant. FASEB Journal, 2022, 36, .	0.2	0
3	Immunohistochemical localization of receptor protein tyrosine phosphatase $\hat{1}^3$ in mouse renal proximal tubule, thick ascending limb and distal convoluted tubule. FASEB Journal, 2022, 36, .	0.2	0
4	Carbon dioxide transport across membranes. Interface Focus, 2021, 11, 20200090.	1.5	25
5	The Defense against Whole-Animal Respiratory Acidosis in AT $\langle \text{sub} \rangle 1\text{A} \langle / \text{sub} \rangle$ knockout mice. FASEB Journal, 2021, 35, .	0.2	0
6	Quantitation of transmembrane O $\langle \text{sub} \rangle 2 \langle / \text{sub} \rangle$ flux via RhAG in a neutral- $\hat{e}$ buoyancy assay. FASEB Journal, 2021, 35, .	0.2	0
7	Elucidating the Autoinhibitory Domain and IRBIT- $\hat{e}$ Binding Motifs of the Electrogenic Na/HCO $\hat{3}$ Transporter NBCe1 $\hat{e}$ . FASEB Journal, 2021, 35, .	0.2	0
8	Correlation of Oxygen- $\hat{e}$ offloading rate from Red Blood Cells with Body Mass. FASEB Journal, 2021, 35, .	0.2	0
9	AQP1 and RhAG proteins play roles on oxygen offloading from murine red blood cells during aging. FASEB Journal, 2021, 35, .	0.2	0
10	Quantitation of transmembrane CO $\hat{2}$ flux via AQP5 and NBCe1 in a neutral- $\hat{e}$ buoyancy assay. FASEB Journal, 2021, 35, .	0.2	0
11	Modulation of acid extrusion and acid loading in neurons and astrocytes by RPTP $\hat{1}^3$ and RPTP $\hat{1}^4$ . FASEB Journal, 2021, 35, .	0.2	0
12	Carbonic anhydrases enhance activity of endogenous Na $\hat{e}$ H exchangers and not the electrogenic Na/HCO $\langle \text{sub} \rangle 3 \langle / \text{sub} \rangle$ cotransporter NBCe1 $\hat{e}$ A, expressed in <i>Xenopus</i> oocytes. Journal of Physiology, 2020, 598, 5821-5856.	1.3	12
13	Multiple acid- $\hat{e}$ base and electrolyte disturbances upregulate NBCn1, NBCn2, IRBIT and $\hat{e}$ IRBIT in the mTAL. Journal of Physiology, 2020, 598, 3395-3415.	1.3	4
14	Computational Model of Electrode-Induced Microenvironmental Effects on pH Measurements Near a Cell Membrane. Multiscale Modeling and Simulation, 2020, 18, 1053-1075.	0.6	4
15	Aquaporin-7: A Dynamic Aquaglyceroporin With Greater Water and Glycerol Permeability Than Its Bacterial Homolog GlpF. Frontiers in Physiology, 2020, 11, 728.	1.3	21
16	Quantitation of a neutral- $\hat{e}$ buoyancy assay (NBA) to estimate transmembrane N $\hat{2}$ flux. FASEB Journal, 2020, 34, 1-1.	0.2	1
17	The Boron & De Weer Model of Intracellular pH Regulation. Physiome, 2020, , .	0.3	0
18	The Boron & De Weer Model of Intracellular pH Regulation. Physiome, 2020, , .	0.3	0

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19	Characterization of Sodium Bicarbonate Transporters NBCe1 and NBCn1 as CO <sub>2</sub> channels. FASEB Journal, 2020, 34, 1-1.	0.2	0
20	Role of Carbonic Anhydrases and Inhibitors in Acid-Base Physiology: Insights from Mathematical Modeling. International Journal of Molecular Sciences, 2019, 20, 3841.	1.8	51
21	Expression, Localization, and Effect of High Salt Intake on Electroneutral Na <sup>+</sup> /HCO <sub>3</sub> <sup>-</sup> Cotransporter NBCn2 in Rat Small Intestine: Implication in Intestinal NaCl Absorption. Frontiers in Physiology, 2019, 10, 1334.	1.3	7
22	Increased cerebral vascularization and decreased water exchange across the blood-brain barrier in aquaporin-4 knockout mice. PLoS ONE, 2019, 14, e0218415.	1.1	25
23	Functionalized Phenylbenzamides Inhibit Aquaporin-4 Reducing Cerebral Edema and Improving Outcome in Two Models of CNS Injury. Neuroscience, 2019, 404, 484-498.	1.1	38
24	Effect of inhibitors on oxygen permeability of wild type and knockout mouse red blood cells. FASEB Journal, 2019, 33, 823.5.	0.2	0
25	Investigation of the Intracellular pH (pH <sub>i</sub> ) Dependence of the Electrogenic Sodium Bicarbonate Cotransporter NBCe1. FASEB Journal, 2019, 33, 544.2.	0.2	1
26	Effect of aging on oxygen permeability of wild type (WT) and AQP1-RhAG double knockout (dKO) mouse red blood cells. FASEB Journal, 2019, 33, 823.4.	0.2	0
27	Evaluating Physiological Interactions between the Electrogenic Na/HCO <sub>3</sub> Transporter NBCe1 and its Cytosolic Binding Partner IRBIT. FASEB Journal, 2019, 33, 544.6.	0.2	0
28	Exploring the autoinhibitory domain of the electrogenic Na <sup>+</sup> /HCO <sub>3</sub> <sup>-</sup> transporter NBCe1, from residues 28 to 62. Journal of Physiology, 2018, 596, 3637-3653.	1.3	10
29	Linacotide improves gastrointestinal transit in cystic fibrosis mice by inhibiting sodium/hydrogen exchanger 3. American Journal of Physiology - Renal Physiology, 2018, 315, G868-G878.	1.6	20
30	Sensing and transduction of acid-base disturbances by receptor protein tyrosine phosphatase <sup>1</sup> . FASEB Journal, 2018, 32, 864.5.	0.2	0
31	Na <sup>+</sup> /HCO <sub>3</sub> <sup>-</sup> Cotransporter NBCn2 Mediates HCO <sub>3</sub> <sup>-</sup> Reclamation in the Apical Membrane of Renal Proximal Tubules. Journal of the American Society of Nephrology: JASN, 2017, 28, 2409-2419.	3.0	25
32	Rio 2017 is Shaping Up as a Great World Congress. Physiology, 2017, 32, 2-4.	1.6	3
33	Role of Cl <sup>-</sup> /HCO <sub>3</sub> <sup>-</sup> exchanger AE3 in intracellular pH homeostasis in cultured murine hippocampal neurons, and in crosstalk to adjacent astrocytes. Journal of Physiology, 2017, 595, 93-124.	1.3	12
34	A Novel Stopped-Flow Assay for Quantitating Carbonic-Anhydrase Activity and Assessing Red-Blood-Cell Hemolysis. Frontiers in Physiology, 2017, 8, 169.	1.3	9
35	Extracellular Ca <sup>2+</sup> , K <sup>+</sup> ... is sensed by mouse cerebral arteries: Regulation of tone by receptor protein tyrosine phosphatase <sup>1</sup> . Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 965-980.	2.4	40
36	Reconstitution of CO <sub>2</sub> Regulation of SLAC1 Anion Channel and Function of CO <sub>2</sub> -Permeable PIP2;1 Aquaporin as CARBONIC ANHYDRASE4 Interactor. Plant Cell, 2016, 28, 568-582.	3.1	130

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37	The Landscape of Physiology. <i>Physiology</i> , 2016, 31, 2-4.	1.6	3
38	Role of Receptor Protein Tyrosine Phosphatase $\hat{\beta}$ in Sensing Extracellular CO <sub>2</sub> and HCO <sub>3</sub> <sup>-</sup> . <i>Journal of the American Society of Nephrology: JASN</i> , 2016, 27, 2616-2621.	3.0	28
39	Is the electrogenic Na/HCO <sub>3</sub> cotransporter a CO <sub>2</sub> channel?. <i>FASEB Journal</i> , 2016, 30, 971.2.	0.2	2
40	Effect of acute acid-base disturbances on the phosphorylation of phospholipase C- $\hat{\beta}$ 1 and Erk1/2 in the renal proximal tubule. <i>Physiological Reports</i> , 2015, 3, e12280.	0.7	5
41	IUPS and the Future of Physiology. <i>Physiology</i> , 2015, 30, 2-3.	1.6	1
42	Rebuttal from Gordon J. Cooper, Rossana Occhipinti and Walter F. Boron. <i>Journal of Physiology</i> , 2015, 593, 5033-5033.	1.3	2
43	CrossTalk proposal: Physiological CO <sub>2</sub> exchange can depend on membrane channels. <i>Journal of Physiology</i> , 2015, 593, 5025-5028.	1.3	14
44	Mathematical modeling of acid-base physiology. <i>Progress in Biophysics and Molecular Biology</i> , 2015, 117, 43-58.	1.4	33
45	Distinct Cellular Locations of Carbonic Anhydrases Mediate Carbon Dioxide Control of Stomatal Movements. <i>Plant Physiology</i> , 2015, 169, 1168-1178.	2.3	78
46	Novel pH-dependent Astrocyte-Neuron Crosstalk in Hippocampal CA1 Region, Not Observed After the Knockout of the Anion Exchanger 3 (AE3). <i>FASEB Journal</i> , 2015, 29, 668.2.	0.2	0
47	NH <sub>3</sub> Permeability versus CO <sub>2</sub> Permeability: Insights from Mathematical Modeling. <i>FASEB Journal</i> , 2015, 29, 668.3.	0.2	0
48	Effects of metabolic acidosis on intracellular pH responses in multiple cell types. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R1413-R1427.	0.9	25
49	NBCe1 (SLC4A4) a potential pH regulator in enamel organ cells during enamel development in the mouse. <i>Cell and Tissue Research</i> , 2014, 358, 433-442.	1.5	47
50	Evidence from simultaneous intracellular- and surface-pH transients that carbonic anhydrase II enhances CO <sub>2</sub> fluxes across <i>Xenopus</i> oocyte plasma membranes. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 307, C791-C813.	2.1	18
51	Evidence from simultaneous intracellular- and surface-pH transients that carbonic anhydrase IV enhances CO <sub>2</sub> fluxes across <i>Xenopus</i> oocyte plasma membranes. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 307, C814-C840.	2.1	26
52	Intracellular pH regulation by acid-base transporters in mammalian neurons. <i>Frontiers in Physiology</i> , 2014, 5, 43.	1.3	138
53	Comment on "Local impermeant anions establish the neuronal chloride concentration". <i>Science</i> , 2014, 345, 1130-1130.	6.0	27
54	Evidence from mathematical modeling that carbonic anhydrase II and IV enhance CO <sub>2</sub> fluxes across <i>Xenopus</i> oocyte plasma membranes. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 307, C841-C858.	2.1	19

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55	Distinguishing HCO <sub>3</sub> <sup>-</sup> from CO <sub>3</sub> <sup>=</sup> transport by the electrogenic Na/HCO <sub>3</sub> cotransporter NBCe1 (SLC4A4) (1098.7). <i>FASEB Journal</i> , 2014, 28, 1098.7.	0.2	4
56	Relative CO <sub>2</sub> /NH <sub>3</sub> Permeabilities of Human RhAG, RhBG and RhCG. <i>Journal of Membrane Biology</i> , 2013, 246, 915-926.	1.0	36
57	Effects of optional structural elements, including two alternative amino termini and a new splicing cassette IV, on the function of the sodium <sup>+</sup> bicarbonate cotransporter NBCn1 (SLC4A7). <i>Journal of Physiology</i> , 2013, 591, 4983-5004.	1.3	16
58	Mutation of a single amino acid converts the human water channel aquaporin 5 into an anion channel. <i>American Journal of Physiology - Cell Physiology</i> , 2013, 305, C663-C672.	2.1	20
59	Control of Intracellular pH. , 2013, , 1773-1835.		12
60	Effect of acute acid-base disturbances on ErbB1/2 tyrosine phosphorylation in rabbit renal proximal tubules. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 305, F1747-F1764.	1.3	7
61	Immunocytochemical identification of electrogenic Na <sup>+</sup> -coupled HCO <sub>3</sub> <sup>-</sup> transporters in freshly dissociated mouse medullary rapheA neurons. <i>Neuroscience</i> , 2013, 246, 451-467.	1.1	5
62	The SLC4 family of bicarbonate transporters. <i>Molecular Aspects of Medicine</i> , 2013, 34, 159-182.	2.7	287
63	Early Life Hypoxic or Hypoxic/Hypercapnic Stress Alters Acute Ventilatory Sensitivity in Adult Mice. <i>Advances in Experimental Medicine and Biology</i> , 2013, 765, 351-355.	0.8	0
64	Substrate specificity of the electrogenic sodium/bicarbonate cotransporter NBCe1-A (SLC4A4, variant) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.3	21
65	Relative CO <sub>2</sub> /NH <sub>3</sub> selectivities of mammalian aquaporins O <sup>+</sup> . <i>American Journal of Physiology - Cell Physiology</i> , 2013, 304, C985-C994.	2.1	95
66	Monitoring Ion Activities In and Around Cells Using Ion-Selective Liquid-Membrane Microelectrodes. <i>Sensors</i> , 2013, 13, 984-1003.	2.1	27
67	Movement of NH <sub>3</sub> through the human urea transporter B: a new gas channel. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 304, F1447-F1457.	1.3	27
68	X-ray diffraction studies on merohedrally twinned 1 <sup>+</sup> NBCe1-A crystals of the sodium/bicarbonate cotransporter. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013, 69, 796-799.	0.7	2
69	The Divergence, Actions, Roles, and Relatives of Sodium-Coupled Bicarbonate Transporters. <i>Physiological Reviews</i> , 2013, 93, 803-959.	13.1	237
70	Splice Cassette II of Na <sup>+</sup> ,HCO <sub>3</sub> <sup>-</sup> Cotransporter NBCn1 (slc4a7) Interacts with Calcineurin A. <i>Journal of Biological Chemistry</i> , 2013, 288, 8146-8155.	1.6	32
71	Relief of autoinhibition of the electrogenic Na-HCO <sub>3</sub> cotransporter NBCe1-B: role of IRBIT vs. amino-terminal truncation. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C518-C526.	2.1	60
72	Physiology Without Borders 2. <i>Physiology</i> , 2012, 27, 2-2.	1.6	2

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73	A reactionâ€“diffusion model of CO <sub>2</sub> influx into an oocyte. Journal of Theoretical Biology, 2012, 309, 185-203.	0.8	33
74	HCO <sub>3</sub> <sup>-</sup> independent conductance with a mutant Na <sup>+</sup> /HCO <sub>3</sub> <sup>-</sup> cotransporter (SLC4A4) in a case of proximal renal tubular acidosis with hypokalaemic paralysis. Journal of Physiology, 2012, 590, 2009-2034.	1.3	24
75	A Fond Farewell â€ and Good Luck to Gary Sieck. Physiology, 2012, 27, 114-114.	1.6	0
76	Effect of Simultaneously Replacing Putative TM6 and TM12 of Human NBCe1-A with Those from NBCn1 on Surface Abundance in Xenopus Oocytes. Journal of Membrane Biology, 2012, 245, 131-140.	1.0	11
77	Mathematical modeling of the role of carbonic anhydrase II and IV on the influx of CO <sub>2</sub> in a Xenopus oocyte. FASEB Journal, 2012, 26, 882.9.	0.2	0
78	Neuronal and nonâ€“neuronal steadyâ€“state pHi and recovery from NH <sub>4</sub> <sup>+</sup> â€“induced acid loads. FASEB Journal, 2012, 26, 901.5.	0.2	0
79	The role of carbonic anhydrase II on HCO <sub>3</sub> <sup>-</sup> â€“initiated transport through the SLC4A4 transporter NBCe1A. FASEB Journal, 2012, 26, 882.4.	0.2	0
80	Immunocytochemical techniques identify Na <sup>+</sup> â€“coupled HCO <sub>3</sub> <sup>-</sup> transporters (NCBTs) in chemosensitive neurons of the Medullary Raphâ€. FASEB Journal, 2012, 26, 882.7.	0.2	0
81	Functional reassembly of NBCe1â€“A from coâ€“expressed cytosolic and transmembrane domains. FASEB Journal, 2012, 26, 882.2.	0.2	2
82	Exploring CO <sub>2</sub> permeability of plant aquaporins. FASEB Journal, 2012, 26, 1103.8.	0.2	0
83	Bloodâ€“Brain Barrier Na/HCO <sub>3</sub> Cotransporters: Evidence for a Role in Ischemiaâ€“induced Brain Na Uptake. FASEB Journal, 2012, 26, 1152.22.	0.2	0
84	Corrigendum to â€œUsing fluorometry and ion-sensitive microelectrodes to study the functional expression of heterologously-expressed ion channels and transporters in Xenopus oocytesâ€• [Methods 51 (2010) 134â€“145]. Methods, 2011, 54, 462.	1.9	0
85	A Vision for <i>Physiology</i>â€“The Journal. Physiology, 2011, 26, 208-209.	1.6	1
86	Babies in Biomedical Research. Physiology, 2011, 26, 2-3.	1.6	0
87	Role of an extracellular loop in determining the stoichiometry of Na <sup>+</sup> â€“HCO <sub>3</sub> <sup>-</sup> cotransporters. Journal of Physiology, 2011, 589, 877-890.	1.3	30
88	Expression and distribution of NBCn2 (Slc4a10) splice variants in mouse brain: Cloning of novel variant NBCn2-D. Brain Research, 2011, 1390, 33-40.	1.1	7
89	Intrinsic CO <sub>2</sub> Permeability of Cell Membranes and Potential Biological Relevance of CO <sub>2</sub> Channels. ChemPhysChem, 2011, 12, 1017-1019.	1.0	56
90	Exploring the CO <sub>2</sub> permeability of cysteineâ€“less human aquaporinâ€“5 (hAQP5) with single introduced Cys residues. FASEB Journal, 2011, 25, 1039.27.	0.2	0

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91	Relative CO <sub>2</sub> /NH <sub>3</sub> permeabilities of several members of the mammalian Aquaporin family: bAQP0, hAQP1, hAQP2, rAQP3, rAQP4 <sup>M1</sup> , rAQP4 <sup>M23</sup> , and hAQP8. FASEB Journal, 2011, 25, 1040.5.	0.2	1
92	Relative CO <sub>2</sub> /NH <sub>3</sub> permeabilities of human RhAG, RhBG, and RhCG. FASEB Journal, 2011, 25, 1040.4.	0.2	2
93	Exploring central pore amino acid residues important for CO <sub>2</sub> permeation through human aquaporin <sup>5</sup> (AQP5). FASEB Journal, 2011, 25, 1039.5.	0.2	0
94	Evidence that DIDS crosslinks Aquaporin 1 monomers. FASEB Journal, 2011, 25, 1039.26.	0.2	1
95	A Reaction-Diffusion Model of Acid-Base Balance in a Xenopus Oocyte. FASEB Journal, 2011, 25, 1129.4.	0.2	0
96	Evaluating the role of carbonic anhydrases in the transport of HCO <sub>3</sub> <sup>-</sup> -related species. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 410-421.	1.1	71
97	Sharpey-Schafer Lecture: Gas channels. Experimental Physiology, 2010, 95, 1107-1130.	0.9	81
98	<i>Physiology</i> . . . IUPS . . . Wearing Multiple Hats. Physiology, 2010, 25, 2-2.	1.6	1
99	Sustainability in Biomedical Research. Physiology, 2010, 25, 200-202.	1.6	2
100	Cloning and characterization of a zebrafish homologue of human AQP1: a bifunctional water and gas channel. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 299, R1163-R1174.	0.9	38
101	Distribution of NBCn2 (SLC4A10) splice variants in mouse brain. Neuroscience, 2010, 169, 951-964.	1.1	18
102	Using fluorometry and ion-sensitive microelectrodes to study the functional expression of heterologously-expressed ion channels and transporters in Xenopus oocytes. Methods, 2010, 51, 134-145.	1.9	49
103	In Xenopus oocytes, stimulation of the electrogenic Na/HCO <sub>3</sub> transporter NBCe1 by IRBIT can be explained by relief of transporter autoinhibition and is unaffected by endogenous phosphatases.. FASEB Journal, 2010, 24, 815.7.	0.2	0
104	Effect of DIDS and pCMBS on the CO <sub>2</sub> permeability of human aquaporin <sup>5</sup> (AQP5). FASEB Journal, 2010, 24, 610.5.	0.2	1
105	Effect of knocking out receptor protein tyrosine phosphatase <sup>3</sup> (RPTP <sup>3</sup> ) in the CO <sub>2</sub> induced stimulation of HCO <sub>3</sub> reabsorption by mouse renal proximal tubules. FASEB Journal, 2010, 24, 1024.7.	0.2	3
106	Acid-base transport by the renal proximal tubule. Journal of Nephrology, 2010, 23 Suppl 16, S4-18.	0.9	36
107	Secretagogue stimulation enhances NBCe1 (electrogenic Na <sup>+</sup> /HCO <sub>3</sub> <sup>-</sup> cotransporter) surface expression in murine colonic crypts. American Journal of Physiology - Renal Physiology, 2009, 297, G1223-G1231.	1.6	27
108	Relative CO <sub>2</sub> /NH <sub>3</sub> selectivities of AQP1, AQP4, AQP5, AmtB, and RhAG. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5406-5411.	3.3	235

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109	Modular structure of sodium-coupled bicarbonate transporters. <i>Journal of Experimental Biology</i> , 2009, 212, 1697-1706.	0.8	121
110	Letter to the editor: The use of extracellular, ion-selective microelectrodes to study the function of heterologously expressed transporters in <i>Xenopus</i> oocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 296, C1243-C1243.	2.1	3
111	Cloning, localization, and functional expression of the electrogenic Na <sup>+</sup> -coupled bicarbonate cotransporter (NBCe1) from zebrafish. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 297, C865-C875.	2.1	23
112	Concentration-Dependent Effects on Intracellular and Surface pH of Exposing <i>Xenopus</i> oocytes to Solutions Containing NH <sub>3</sub> /NH <sub>4</sub> <sup>+</sup> . <i>Journal of Membrane Biology</i> , 2009, 228, 15-31.	1.0	32
113	Managing the Business of Science. <i>Physiology</i> , 2009, 24, 2-3.	1.6	2
114	ACID-BASE PHYSIOLOGY. , 2009, , 652-671.		3
115	Physiology . . . On Our Fifth Anniversary. <i>Physiology</i> , 2009, 24, 204-205.	1.6	0
116	ATP Dependence of Na <sup>+</sup> -Driven Cl <sup>-</sup> /HCO <sub>3</sub> <sup>-</sup> Exchange in Squid Axons. <i>Journal of Membrane Biology</i> , 2008, 222, 107-113.	1.0	2
117	Control of Intracellular pH. , 2008, , 1429-1480.		8
118	Effects of acute hypoxia on intracellular-pH regulation in astrocytes cultured from rat hippocampus. <i>Brain Research</i> , 2008, 1193, 143-152.	1.1	22
119	Effects of chronic continuous hypoxia on the expression of SLC4A8 (NDCBE) in neonatal versus adult mouse brain. <i>Brain Research</i> , 2008, 1238, 85-92.	1.1	20
120	Use of a new polyclonal antibody to study the distribution and glycosylation of the sodium-coupled bicarbonate transporter NCBE in rodent brain. <i>Neuroscience</i> , 2008, 151, 374-385.	1.1	44
121	Expression and localization of Na-driven Cl <sup>-</sup> /HCO <sub>3</sub> <sup>-</sup> exchanger (SLC4A8) in rodent CNS. <i>Neuroscience</i> , 2008, 153, 162-174.	1.1	42
122	Localization of electrogenic Na/bicarbonate cotransporter NBCe1 variants in rat brain. <i>Neuroscience</i> , 2008, 155, 818-832.	1.1	51
123	Characterization of Human SLC4A10 as an Electroneutral Na/HCO <sub>3</sub> Cotransporter (NBCn2) with Cl <sup>-</sup> Self-exchange Activity. <i>Journal of Biological Chemistry</i> , 2008, 283, 12777-12788.	1.6	83
124	Role of endogenously secreted angiotensin II in the CO <sub>2</sub> -induced stimulation of HCO <sub>3</sub> <sup>-</sup> reabsorption by renal proximal tubules. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 294, F245-F252.	1.3	17
125	Cloning and characterization of novel human <i>SLC4A8</i> gene products encoding Na <sup>+</sup> -driven Cl <sup>-</sup> /HCO <sub>3</sub> <sup>-</sup> exchanger variants NDCBE-A, -C, and -D. <i>Physiological Genomics</i> , 2008, 34, 265-276.	1.0	35
126	Physiology and the Olympics   On Our Fourth Anniversary. <i>Physiology</i> , 2008, 23, 182-182.	1.6	1



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127	Sodium-Coupled Bicarbonate Transporters. , 2008, , 1481-1497.		16
128	Cloning and identification of a novel human NBCn1 splice variant. FASEB Journal, 2008, 22, 92-92.	0.2	1
129	CO <sub>2</sub> /HCO <sub>3</sub> <sup>-</sup> Modulates Receptor Protein Tyrosine Phosphatase Gamma (RPTP <sup>γ</sup> ) Activity. FASEB Journal, 2008, 22, 748.7.	0.2	1
130	Effect of basolateral CO <sub>2</sub> on the luminal ANG II sensitivity of HCO <sub>3</sub> <sup>-</sup> reabsorption by rabbit S2 proximal tubules. FASEB Journal, 2008, 22, 760.2.	0.2	0
131	Structural requirements for the electrogenicity of the electrogenic Na <sup>+</sup> /HCO <sub>3</sub> <sup>-</sup> cotransporter NBCe1. FASEB Journal, 2008, 22, .	0.2	1
132	Splice Cassette II Within The N Terminus Of The Electroneutral Na <sup>+</sup> + HCO <sub>3</sub> <sup>-</sup> Coupled Bicarbonate Transporter NBCn1 Includes A Functional Calcineurin A <sup>1</sup> Binding Site. FASEB Journal, 2008, 22, 759.12.	0.2	4
133	Evidence against a Direct Interaction between Intracellular Carbonic Anhydrase II and Pure C-terminal Domains of SLC4 Bicarbonate Transporters. Journal of Biological Chemistry, 2007, 282, 1409-1421.	1.6	69
134	Cloning and characterization of an electrogenic Na/HCO <sub>3</sub> <sup>-</sup> cotransporter from the squid giant fiber lobe. American Journal of Physiology - Cell Physiology, 2007, 292, C2032-C2045.	2.1	23
135	Effect of chronic elevated carbon dioxide on the expression of acid-base transporters in the neonatal and adult mouse. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R1294-R1302.	0.9	27
136	Chronic continuous hypoxia decreases the expression of SLC4A7 (NBCn1) and SLC4A10 (NCBE) in mouse brain. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R2412-R2420.	0.9	27
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