

John Orłowski

List of Publications by Year in descending order

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57
papers

6,519
citations

126907

33
h-index

155660

55
g-index

57
all docs

57
docs citations

57
times ranked

6747
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensors and regulators of intracellular pH. <i>Nature Reviews Molecular Cell Biology</i> , 2010, 11, 50-61.	37.0	1,790
2	Diversity of the mammalian sodium/proton exchanger SLC9 gene family. <i>Pflugers Archiv European Journal of Physiology</i> , 2004, 447, 549-565.	2.8	566
3	Na ⁺ /H ⁺ Exchangers of Mammalian Cells. <i>Journal of Biological Chemistry</i> , 1997, 272, 22373-22376.	3.4	524
4	Direct Binding of the Na ⁺ /H ⁺ Exchanger NHE1 to ERM Proteins Regulates the Cortical Cytoskeleton and Cell Shape Independently of H ⁺ Translocation. <i>Molecular Cell</i> , 2000, 6, 1425-1436.	9.7	376
5	Identification of a Mitochondrial Na ⁺ /H ⁺ Exchanger. <i>Journal of Biological Chemistry</i> , 1998, 273, 6951-6959.	3.4	234
6	Molecular Cloning and Characterization of a Novel (Na ⁺ ,K ⁺)/H ⁺ Exchanger Localized to the trans-Golgi Network. <i>Journal of Biological Chemistry</i> , 2001, 276, 17387-17394.	3.4	219
7	The Epithelial Sodium-Hydrogen Antiporter Na ⁺ /H ⁺ Exchanger 3 Accumulates and Is Functional in Recycling Endosomes. <i>Journal of Biological Chemistry</i> , 1998, 273, 2035-2043.	3.4	190
8	Intracellular Ph Regulation by Na ⁺ /H ⁺ Exchange Requires Phosphatidylinositol 4,5-Bisphosphate. <i>Journal of Cell Biology</i> , 2000, 150, 213-224.	5.2	185
9	Endosomal Recycling of the Na ⁺ /H ⁺ Exchanger NHE3 Isoform Is Regulated by the Phosphatidylinositol 3-Kinase Pathway. <i>Journal of Biological Chemistry</i> , 1998, 273, 20828-20836.	3.4	147
10	Structure-Activity Analysis of Niclosamide Reveals Potential Role for Cytoplasmic pH in Control of Mammalian Target of Rapamycin Complex 1 (mTORC1) Signaling. <i>Journal of Biological Chemistry</i> , 2012, 287, 17530-17545.	3.4	141
11	Identification of Sites Required for Down-regulation of Na ⁺ /H ⁺ Exchanger NHE3 Activity by cAMP-dependent Protein Kinase. <i>Journal of Biological Chemistry</i> , 1997, 272, 28672-28679.	3.4	139
12	Molecular cloning and physical and genetic mapping of a novel human Na ⁺ /H ⁺ exchanger (NHE5/SLC9A5) to chromosome 16q22.1. <i>Genomics</i> , 1995, 25, 615-622.	2.9	133
13	Molecular Cloning, Genomic Organization, and Functional Expression of Na ⁺ /H ⁺ Exchanger Isoform 5 (NHE5) from Human Brain. <i>Journal of Biological Chemistry</i> , 1999, 274, 4377-4382.	3.4	131
14	The Apical Na ⁺ /H ⁺ Exchanger Isoform NHE3 Is Regulated by the Actin Cytoskeleton. <i>Journal of Biological Chemistry</i> , 1999, 274, 29843-29849.	3.4	106
15	Emerging roles of alkali cation/proton exchangers in organellar homeostasis. <i>Current Opinion in Cell Biology</i> , 2007, 19, 483-492.	5.4	99
16	The Epithelial Na ⁺ /H ⁺ Exchanger, NHE3, Is Internalized through a Clathrin-mediated Pathway. <i>Journal of Biological Chemistry</i> , 1999, 274, 37551-37558.	3.4	94
17	Na ⁺ /H ⁺ Exchangers. , 2011, 1, 2083-2100.		93
18	Delineation of Transmembrane Domains of the Na ⁺ /H ⁺ Exchanger That Confer Sensitivity to Pharmacological Antagonists. <i>Journal of Biological Chemistry</i> , 1996, 271, 19922-19927.	3.4	87

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19	Genomic Organization and Glucocorticoid Transcriptional Activation of the Rat Na ⁺ /H ⁺ Exchanger Nhe3 Gene. <i>Journal of Biological Chemistry</i> , 1996, 271, 10551-10559.	3.4	78
20	Distinct Structural Domains Confer cAMP Sensitivity and ATP Dependence to the Na ⁺ /H ⁺ Exchanger NHE3 Isoform. <i>Journal of Biological Chemistry</i> , 1996, 271, 3590-3599.	3.4	77
21	Topological analysis of NHE1, the ubiquitous Na ⁺ /H ⁺ exchanger using chymotryptic cleavage. <i>American Journal of Physiology - Cell Physiology</i> , 1998, 275, C431-C439.	4.6	69
22	RhoA and Rho Kinase Regulate the Epithelial Na ⁺ /H ⁺ Exchanger NHE3. <i>Journal of Biological Chemistry</i> , 2000, 275, 28599-28606.	3.4	62
23	Kinetic and Pharmacological Properties of Human Brain Na ⁺ /H ⁺ Exchanger Isoform 5 Stably Expressed in Chinese Hamster Ovary Cells. <i>Journal of Biological Chemistry</i> , 2000, 275, 6302-6307.	3.4	61
24	Secretory carrier membrane proteins interact and regulate trafficking of the organellar (Na ⁺ ,K ⁺)/H ⁺ exchanger NHE7. <i>Journal of Cell Science</i> , 2005, 118, 1885-1897.	2.0	59
25	Subcellular localization of the Na ⁺ /H ⁺ exchanger NHE1 in rat myocardium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999, 276, H709-H717.	3.2	55
26	Clathrin-mediated Endocytosis and Recycling of the Neuron-specific Na ⁺ /H ⁺ Exchanger NHE5 Isoform. <i>Journal of Biological Chemistry</i> , 2002, 277, 42623-42632.	3.4	55
27	Regulation of the Epithelial Na ⁺ /H ⁺ Exchanger Isoform by the Cytoskeleton. <i>Cellular Physiology and Biochemistry</i> , 2000, 10, 265-272.	1.6	54
28	Role of the Cytoskeleton in Mediating cAMP-dependent Protein Kinase Inhibition of the Epithelial Na ⁺ /H ⁺ Exchanger NHE3. <i>Journal of Biological Chemistry</i> , 2001, 276, 40761-40768.	3.4	54
29	Contributions of Na ⁺ /H ⁺ exchanger isoforms to preimplantation development of the mouse. <i>Molecular Reproduction and Development</i> , 1998, 50, 146-153.	2.0	50
30	Calcineurin B Homologous Protein 3 Promotes the Biosynthetic Maturation, Cell Surface Stability, and Optimal Transport of the Na ⁺ /H ⁺ Exchanger NHE1 Isoform. <i>Journal of Biological Chemistry</i> , 2008, 283, 12456-12467.	3.4	47
31	Identification of Sites in the Second Exomembrane Loop and Ninth Transmembrane Helix of the Mammalian Na ⁺ /H ⁺ Exchanger Important for Drug Recognition and Cation Translocation. <i>Journal of Biological Chemistry</i> , 2001, 276, 43792-43800.	3.4	46
32	Na ⁺ /H ⁺ exchange and pH regulation in the control of neutrophil chemokinesis and chemotaxis. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 294, C526-C534.	4.6	46
33	Structure and mechanism of the human NHE1-CHP1 complex. <i>Nature Communications</i> , 2021, 12, 3474.	12.8	45
34	Enhanced Recruitment of Endosomal Na ⁺ /H ⁺ Exchanger NHE6 into Dendritic Spines of Hippocampal Pyramidal Neurons during NMDA Receptor-Dependent Long-Term Potentiation. <i>Journal of Neuroscience</i> , 2013, 33, 595-610.	3.6	41
35	Â-Arrestins bind and decrease cell-surface abundance of the Na ⁺ /H ⁺ exchanger NHE5 isoform. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 2790-2795.	7.1	38
36	Modulation of Na ⁺ /H ⁺ exchange activity by Cl ⁻ . <i>American Journal of Physiology - Cell Physiology</i> , 2001, 281, C133-C141.	4.6	33

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37	CHP1-Mediated NHE1 Biosynthetic Maturation Is Required for Purkinje Cell Axon Homeostasis. <i>Journal of Neuroscience</i> , 2013, 33, 12656-12669.	3.6	28
38	Proline-rich Motifs of the Na ⁺ /H ⁺ Exchanger 2 Isoform. <i>Journal of Biological Chemistry</i> , 1999, 274, 10481-10488.	3.4	25
39	A recurrent missense variant in SLC9A7 causes nonsyndromic X-linked intellectual disability with alteration of Golgi acidification and aberrant glycosylation. <i>Human Molecular Genetics</i> , 2019, 28, 598-614.	2.9	25
40	A Christianson syndrome-linked deletion mutation (Δ287ES288) in SLC9A6 disrupts recycling endosomal function and elicits neurodegeneration and cell death. <i>Molecular Neurodegeneration</i> , 2016, 11, 63.	10.8	22
41	A potential gain-of-function variant of SLC9A6 leads to endosomal alkalinization and neuronal atrophy associated with Christianson Syndrome. <i>Neurobiology of Disease</i> , 2019, 121, 187-204.	4.4	21
42	PIX Up-regulates Na ⁺ /H ⁺ Exchanger 3 through a Shank2-mediated Protein-Protein Interaction. <i>Journal of Biological Chemistry</i> , 2010, 285, 8104-8113.	3.4	20
43	N-Myristoylation and Ca ²⁺ Binding of Calcineurin B Homologous Protein CHP3 Are Required to Enhance Na ⁺ /H ⁺ Exchanger NHE1 Half-life and Activity at the Plasma Membrane. <i>Journal of Biological Chemistry</i> , 2012, 287, 36883-36895.	3.4	20
44	Ezrin Is Required for the Functional Regulation of the Epithelial Sodium Proton Exchanger, NHE3. <i>PLoS ONE</i> , 2013, 8, e55623.	2.5	20
45	Impaired posttranslational processing and trafficking of an endosomal Na ⁺ /H ⁺ exchanger NHE6 mutant (I ³⁷⁰ WST372) associated with X-linked intellectual disability and autism. <i>Neurochemistry International</i> , 2014, 73, 192-203.	3.8	19
46	Paxillin S273 Phosphorylation Regulates Adhesion Dynamics and Cell Migration through a Common Protein Complex with PAK1 and PIX. <i>Scientific Reports</i> , 2019, 9, 11430.	3.3	16
47	Assorted dysfunctions of endosomal alkali cation/proton exchanger SLC9A6 variants linked to Christianson syndrome. <i>Journal of Biological Chemistry</i> , 2020, 295, 7075-7095.	3.4	13
48	A Christianson syndrome-linked deletion mutation (Δ287ES288) in SLC9A6 impairs hippocampal neuronal plasticity. <i>Neurobiology of Disease</i> , 2019, 130, 104490.	4.4	12
49	Na ⁺ /H ⁺ Exchangers: Molecular Diversity and Relevance to Heart. <i>Annals of the New York Academy of Sciences</i> , 1999, 874, 346-353.	3.8	11
50	Structural basis of autoinhibition of the human NHE3-CHP1 complex. <i>Science Advances</i> , 2022, 8, .	10.3	11
51	Loss of SLC9A6/NHE6 impairs nociception in a mouse model of Christianson syndrome. <i>Pain</i> , 2020, 161, 2619-2628.	4.2	10
52	Determinants of Cation Permeation and Drug Sensitivity in Predicted Transmembrane Helix 9 and Adjoining Exofacial Re-entrant Loop 5 of Na ⁺ /H ⁺ Exchanger NHE1. <i>Journal of Biological Chemistry</i> , 2015, 290, 18173-18186.	3.4	9
53	SMAD5 signaling: more than meets the nuclei. <i>Cell Research</i> , 2017, 27, 1075-1076.	12.0	7
54	George Ralph Mines (1886-1914): the dawn of cardiac nonlinear dynamics. <i>Journal of Physiology</i> , 2016, 594, 2361-2371.	2.9	3

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55	Sleep and daytime behavior in individuals with Christianson Syndrome. <i>Sleep Medicine</i> , 2022, 89, 55-59.	1.6	2
56	Roles of Endomembrane Alkali Cation/Proton Exchangers in Synaptic Function and Neurodevelopmental Disorders. <i>Frontiers in Physiology</i> , 2022, 13, 892196.	2.8	1
57	Historical note on the untimely passing of George Ralph Mines. <i>Journal of Physiology</i> , 2016, 594, 2373-2373.	2.9	0