

Jorge Arreola

List of Publications by Year in descending order

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53
papers

2,078
citations

279798

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233421

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54
all docs

54
docs citations

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times ranked

2021
citing authors

#	ARTICLE	IF	CITATIONS
1	CALCIUM-ACTIVATED CHLORIDE CHANNELS. Annual Review of Physiology, 2005, 67, 719-758.	13.1	560
2	Voltage- and calcium-dependent gating of TMEM16A/Ano1 chloride channels are physically coupled by the first intracellular loop. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8891-8896.	7.1	191
3	Loss of Hyperpolarization-activated Cl ⁻ Current in Salivary Acinar Cells from Clcn2 Knockout Mice. Journal of Biological Chemistry, 2002, 277, 23604-23611.	3.4	104
4	Secretion and cell volume regulation by salivary acinar cells from mice lacking expression of the <i>Clcn3</i> Cl ⁻ channel gene. Journal of Physiology, 2002, 545, 207-216.	2.9	95
5	Cytosolic Ca ²⁺ and Ca ²⁺ -activated Cl ⁻ current dynamics: insights from two functionally distinct mouse exocrine cells. Journal of Physiology, 2002, 540, 469-484.	2.9	75
6	Interaction of Ba ²⁺ with the Pores of the Cloned Inward Rectifier K ⁺ Channels Kir2.1 Expressed in Xenopus Oocytes. Biophysical Journal, 1998, 75, 2313-2322.	0.5	60
7	Conformation-dependent regulation of inward rectifier chloride channel gating by extracellular protons. Journal of Physiology, 2002, 541, 103-112.	2.9	56
8	Phosphatidylinositol 4,5-bisphosphate, cholesterol, and fatty acids modulate the calcium-activated chloride channel TMEM16A (ANO1). Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 299-312.	2.4	56
9	Functional interactions between P2X ₄ and P2X ₇ receptors from mouse salivary epithelia. Journal of Physiology, 2009, 587, 2887-2901.	2.9	53
10	The P2X7/P2X4 interaction shapes the purinergic response in murine macrophages. Biochemical and Biophysical Research Communications, 2015, 467, 484-490.	2.1	50
11	Quantitative Analysis of the Voltage-dependent Gating of Mouse Parotid ClC-2 Chloride Channel. Journal of General Physiology, 2005, 126, 591-603.	1.9	49
12	Inhibition of Ca ²⁺ -dependent Cl ⁻ channels from secretory epithelial cells by low internal pH. Journal of Membrane Biology, 1995, 147, 95-104.	2.1	46
13	Differences in regulation of Ca ²⁺ -activated Cl ⁻ channels in colonic and parotid secretory cells. American Journal of Physiology - Cell Physiology, 1998, 274, C161-C166.	4.6	45
14	Functional and molecular characterization of the fluid secretion mechanism in human parotid acinar cells. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 292, R2380-R2390.	1.8	43
15	Oxidative stress induced by P2X7 receptor stimulation in murine macrophages is mediated by c-Src/Pyk2 and ERK1/2. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4650-4659.	2.4	40
16	Gating modes of calcium-activated chloride channels TMEM16A and TMEM16B. Journal of Physiology, 2015, 593, 5283-5298.	2.9	35
17	Permeant Anions Control Gating of Calcium-dependent Chloride Channels. Journal of Membrane Biology, 2004, 198, 125-133.	2.1	34
18	Nonindependent K ⁺ Movement through the Pore in IRK1 Potassium Channels. Journal of General Physiology, 1998, 112, 475-484.	1.9	32

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19	A novel chloride conductance activated by extracellular ATP in mouse parotid acinar cells. <i>Journal of Physiology</i> , 2003, 547, 197-208.	2.9	32
20	Simulating complex ion channel kinetics with IonChannellab. <i>Channels</i> , 2010, 4, 422-428.	2.8	30
21	Gating the glutamate gate of CLC-2 chloride channel by pore occupancy. <i>Journal of General Physiology</i> , 2016, 147, 25-37.	1.9	29
22	Extracellular protons enable activation of the calcium-dependent chloride channel TMEM16A. <i>Journal of Physiology</i> , 2017, 595, 1515-1531.	2.9	27
23	Revealing the activation pathway for TMEM16A chloride channels from macroscopic currents and kinetic models. <i>Pflügers Archiv European Journal of Physiology</i> , 2016, 468, 1241-1257.	2.8	26
24	Regulation of Ca ²⁺ -activated chloride channels by cAMP and CFTR in parotid acinar cells. <i>Biochemical and Biophysical Research Communications</i> , 2004, 316, 612-617.	2.1	24
25	The EPA2 adhesin encoding gene is responsive to oxidative stress in the opportunistic fungal pathogen <i>Candida glabrata</i> . <i>Current Genetics</i> , 2015, 61, 529-544.	1.7	23
26	Human neutrophils do not express purinergic P2X7 receptors. <i>Purinergic Signalling</i> , 2010, 6, 297-306.	2.2	22
27	Permeant anions contribute to voltage dependence of CLC-2 chloride channel by interacting with the protopore gate. <i>Journal of Physiology</i> , 2010, 588, 2545-2556.	2.9	22
28	Lack of coupling between membrane stretching and pannexin-1 hemichannels. <i>Biochemical and Biophysical Research Communications</i> , 2009, 380, 50-53.	2.1	20
29	Control of volume-sensitive chloride channel inactivation by the coupled action of intracellular chloride and extracellular protons. <i>Pflügers Archiv European Journal of Physiology</i> , 2010, 460, 633-644.	2.8	19
30	Sequential interaction of chloride and proton ions with the fast gate steer the voltage-dependent gating in CLC-2 chloride channels. <i>Journal of Physiology</i> , 2012, 590, 4239-4253.	2.9	19
31	Voltage-Dependent Protonation of the Calcium Pocket Enable Activation of the Calcium-Activated Chloride Channel Anoctamin-1 (TMEM16A). <i>Scientific Reports</i> , 2020, 10, 6644.	3.3	19
32	Wasted TMEM16A channels are rescued by phosphatidylinositol 4,5-bisphosphate. <i>Cell Calcium</i> , 2019, 84, 102103.	2.4	18
33	Na ⁺ Modulates Anion Permeation and Block of P2X7 Receptors from Mouse Parotid Glands. <i>Journal of Membrane Biology</i> , 2008, 223, 73-85.	2.1	16
34	Inhibition of Na ⁺ /H ⁺ exchanger enhances low pH-induced L-selectin shedding and β 2-integrin surface expression in human neutrophils. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C1454-C1463.	4.6	14
35	The Extracellular K ⁺ Concentration Dependence of Outward Currents through Kir2.1 Channels Is Regulated by Extracellular Na ⁺ and Ca ²⁺ . <i>Journal of Biological Chemistry</i> , 2010, 285, 23115-23125.	3.4	13
36	Inhibition by thiocyanate of muscarinic-induced cytosolic acidification and Ca ²⁺ entry in rat sublingual acini. <i>Archives of Oral Biology</i> , 1995, 40, 111-118.	1.8	11

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37	P2X7 from j774 murine macrophages acts as a scavenger receptor for bacteria but not yeast. <i>Biochemical and Biophysical Research Communications</i> , 2016, 481, 19-24.	2.1	11
38	Ca ²⁺ -activated Cl ⁻ currents in salivary and lacrimal glands. <i>Current Topics in Membranes</i> , 2002, , 209-230.	0.9	10
39	Volume-Sensitive Chloride Channels Do Not Mediate Activation-Induced Chloride Efflux in Human Neutrophils. <i>Journal of Immunology</i> , 2004, 172, 6988-6993.	0.8	10
40	Novel outwardly rectifying anion conductance in <i>Xenopus</i> oocytes. <i>Pflügers Archiv European Journal of Physiology</i> , 2004, 449, 271-7.	2.8	7
41	Autonomic modulation of action potential and tension in guinea pig papillary muscles. <i>European Journal of Pharmacology</i> , 1994, 271, 309-317.	3.5	6
42	Atomic charges of Cl ⁻ ions confined in a model <i>Escherichia coli</i> Cl ⁻ /H ⁺ ion exchanger: a density functional theory study. <i>Molecular Physics</i> , 2013, 111, 3218-3233.	1.7	5
43	Electro-steric opening of the clc-2 chloride channel gate. <i>Scientific Reports</i> , 2021, 11, 13127.	3.3	5
44	Regulation of the Ca ²⁺ -activated chloride channel Anoctamin-1 (TMEM16A) by Ca ²⁺ -induced interaction with FKBP12 and calcineurin. <i>Cell Calcium</i> , 2020, 89, 102211.	2.4	5
45	Gating and anion selectivity are reciprocally regulated in TMEM16A (ANO1). <i>Journal of General Physiology</i> , 2022, 154, .	1.9	3
46	Function and Regulation of the Calcium-Activated Chloride Channel Anoctamin 1 (TMEM16A). <i>Handbook of Experimental Pharmacology</i> , 2022, , 101-151.	1.8	3
47	Gating and trafficking of ClC ₂ chloride channel without cystathionine Î ² synthase domains. <i>Journal of Physiology</i> , 2008, 586, 5289-5289.	2.9	2
48	Functional Properties of Ca ²⁺ -Dependent Cl ⁻ Channels and Bestrophins: Do They Correlate?. <i>Advances in Molecular and Cell Biology</i> , 2006, 38, 181-197.	0.1	1
49	Oleic acid blocks the calcium-activated chloride channel TMEM16A/ANO1. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2022, 1867, 159134.	2.4	1
50	Ab Initio Calculations Of Structural Rearrangements and Energetic of Glutamate148 Site Chain of the Ec-ClC H ⁺ /Cl ⁻ Exchanger. <i>Biophysical Journal</i> , 2009, 96, 470a-471a.	0.5	0
51	Voltage-Dependent Gating of ClC-2 Chloride Channel. <i>Biophysical Journal</i> , 2012, 102, 548a.	0.5	0
52	Extracellular Chloride Regulates TMEM16A Gating. <i>Biophysical Journal</i> , 2015, 108, 441a.	0.5	0
53	Stimulation of P2X7 receptors causes Ca ²⁺ -and PKC-mediated reactive oxygen species production in murine macrophages. <i>FASEB Journal</i> , 2010, 24, 1b587.	0.5	0