

Leon D Islas

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,925
citations

279798

23
h-index

265206

42
g-index

89
all docs

89
docs citations

89
times ranked

2060
citing authors

#	ARTICLE	IF	CITATIONS
1	TRP channels: a journey towards a molecular understanding of pain. <i>Nature Reviews Neuroscience</i> , 2022, 23, 596-610.	10.2	24
2	Discovery and characterization of Hv1-type proton channels in reef-building corals. <i>ELife</i> , 2021, 10, .	6.0	10
3	Closing in on the heat-activation mechanisms of TRPV channels. <i>Journal of Physiology</i> , 2021, 599, 4733-4734.	2.9	1
4	The Contribution of the Ankyrin Repeat Domain of TRPV1 as a Thermal Module. <i>Biophysical Journal</i> , 2020, 118, 836-845.	0.5	23
5	A rationally designed orthogonal synthetase for genetically encoded fluorescent amino acids. <i>Heliyon</i> , 2020, 6, e05140.	3.2	2
6	KV1.2 channels inactivate through a mechanism similar to C-type inactivation. <i>Journal of General Physiology</i> , 2020, 152, .	1.9	13
7	A novel origin for calcium selectivity. <i>ELife</i> , 2020, 9, .	6.0	4
8	Patch-Clamp Fluorometry and Its Applications to the Study of Ion Channels. <i>Neuromethods</i> , 2020, , 155-183.	0.3	1
9	<sc>FRET</sc>-based analysis and molecular modeling of the human <sc>GPN</sc>-loop <sc>GTP</sc>ases 1 and 3 heterodimer unveils a dominant-negative protein complex. <i>FEBS Journal</i> , 2019, 286, 4797-4818.	4.7	7
10	TRP ion channels: Proteins with conformational flexibility. <i>Channels</i> , 2019, 13, 207-226.	2.8	16
11	What is new about mild temperature sensing? A review of recent findings. <i>Temperature</i> , 2019, 6, 132-141.	3.0	27
12	TRPV1 channels and the progesterone receptor Sig-1R interact to regulate pain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E1657-E1666.	7.1	57
13	Different agonists induce distinct single-channel conductance states in TRPV1 channels. <i>Journal of General Physiology</i> , 2018, 150, 1735-1746.	1.9	35
14	The acid test for pH-dependent gating in cloned HV1 channels. <i>Journal of General Physiology</i> , 2018, 150, 781-782.	1.9	2
15	Role of lysophosphatidic acid in ion channel function and disease. <i>Journal of Neurophysiology</i> , 2018, 120, 1198-1211.	1.8	19
16	Manipulating transient receptor potential vanilloid 1 antagonists: How to cool down a hot molecule?. <i>Acta Physiologica</i> , 2018, 223, e13088.	3.8	1
17	Irreversible temperature gating in trpv1 sheds light on channel activation. <i>ELife</i> , 2018, 7, .	6.0	42
18	Inhibition of TRPV1 channels by a naturally occurring omega-9 fatty acid reduces pain and itch. <i>Nature Communications</i> , 2016, 7, 13092.	12.8	55

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19	Currents through Hv1 channels deplete protons in their vicinity. <i>Journal of General Physiology</i> , 2016, 147, 127-136.	1.9	25
20	Functional diversity of potassium channel voltage-sensing domains. <i>Channels</i> , 2016, 10, 202-213.	2.8	18
21	A simple method for fast temperature changes and its application to thermal activation of TRPV1 ion channels. <i>Journal of Neuroscience Methods</i> , 2015, 243, 120-125.	2.5	10
22	Voltage-dependent gating and gating charge measurements in the Kv1.2 potassium channel. <i>Journal of General Physiology</i> , 2015, 145, 345-358.	1.9	40
23	Preface. <i>Current Topics in Membranes</i> , 2014, 74, xiii-xiv.	0.9	0
24	Thermal Effects and Sensitivity of Biological Membranes. <i>Current Topics in Membranes</i> , 2014, 74, 1-17.	0.9	7
25	Membrane pacman: small steps for the voltage-sensitive phosphatases. <i>Journal of Physiology</i> , 2014, 592, 823-824.	2.9	0
26	The Role of Allosteric Coupling on Thermal Activation of Thermo-TRP Channels. <i>Biophysical Journal</i> , 2013, 104, 2160-2169.	0.5	67
27	The assembly and distribution in vivo of the Escherichia coli RNA degradosome. <i>Biochimie</i> , 2013, 95, 2034-2041.	2.6	15
28	Effects of electrical polarization on the opening rate constant of a voltage-gated ion channel. <i>Physical Review E</i> , 2013, 88, 012720.	2.1	1
29	The electric heart of hERG. <i>Journal of General Physiology</i> , 2013, 141, 409-411.	1.9	0
30	Shab K ⁺ channel slow inactivation. <i>Channels</i> , 2013, 7, 97-108.	2.8	10
31	Recovery from slow inactivation of Shab K ⁺ channels. <i>Channels</i> , 2013, 7, 225-228.	2.8	2
32	Coarse Architecture of the Transient Receptor Potential Vanilloid 1 (TRPV1) Ion Channel Determined by Fluorescence Resonance Energy Transfer. <i>Journal of Biological Chemistry</i> , 2013, 288, 29506-29517.	3.4	40
33	Lysophosphatidic acid directly activates TRPV1 through a C-terminal binding site. <i>Nature Chemical Biology</i> , 2012, 8, 78-85.	8.0	173
34	Identification of a Binding Motif in the S5 Helix That Confers Cholesterol Sensitivity to the TRPV1 Ion Channel. <i>Journal of Biological Chemistry</i> , 2011, 286, 24966-24976.	3.4	119
35	Uncoupling Charge Movement from Channel Opening in Voltage-gated Potassium Channels by Ruthenium Complexes. <i>Journal of Biological Chemistry</i> , 2011, 286, 16414-16425.	3.4	26
36	Ion Channels in Analgesia Research. <i>Methods in Molecular Biology</i> , 2010, 617, 223-236.	0.9	7

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37	The helical character of the S6 segment of TRPV1 channels. <i>Channels</i> , 2009, 3, 311-313.	2.8	4
38	Structural determinants of gating in the TRPV1 channel. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 704-710.	8.2	100
39	hypoosmotic taurine efflux and accelerates % MathType!Translator!2!1!AMS LaTeX.td!TeX -- AMS-LaTeX! % MathType!MTEF!2!1!+- % feaaaaart1ev0aaatCvAUfeBSjuyZL2yd9gzLbvyNv2CaerbbjxAHX % garmWu51MyVXgatuuDjXwAK1uy0HwmaeHbfv3ySLgzG0uyOHgip5wz % aebbnrfifHhDYfgasaachH8qrps0lbbf9q8WrFfeuY-Hhbbf9v8qqaq % F0xc9pk0xLba9q0WqFfea0-yORyxirJbba9q8aq0-yqHe9q8qy % Q8qFuehFue9F70imesahagaci %	2.8	10
40	A single N-terminal cysteine in TRPV1 determines activation by pungent compounds from onion and garlic. <i>Nature Neuroscience</i> , 2008, 11, 255-261.	14.8	199
41	Properties of the Inner Pore Region of TRPV1 Channels Revealed by Block with Quaternary Ammoniums. <i>Journal of General Physiology</i> , 2008, 132, 547-562.	1.9	40
42	On the Mechanism of TBA Block of the TRPV1 Channel. <i>Biophysical Journal</i> , 2007, 92, 3901-3914.	0.5	42
43	Structure and Rearrangements in the Carboxy-Terminal Region of SpH Channels. <i>Structure</i> , 2007, 15, 671-682.	3.3	77
44	Single molecule fluorescence studies of surface-adsorbed fibronectin. <i>Biomaterials</i> , 2006, 27, 679-690.	11.4	35
45	Short-range Molecular Rearrangements in Ion Channels Detected by Tryptophan Quenching of Bimane Fluorescence. <i>Journal of General Physiology</i> , 2006, 128, 337-346.	1.9	46
46	K ⁺ -dependent stability and ion conduction of Shab K ⁺ channels: a comparison with Shaker channels. <i>Pflügers Archiv European Journal of Physiology</i> , 2005, 450, 255-261.	2.8	10
47	State-dependent Block of CNG Channels by Dequalinium. <i>Journal of General Physiology</i> , 2004, 123, 295-304.	1.9	18
48	Dequalinium. <i>Journal of General Physiology</i> , 2003, 121, 37-47.	1.9	13
49	Electrostatics and the Gating Pore of Shaker Potassium Channels. <i>Journal of General Physiology</i> , 2001, 117, 69-90.	1.9	118
50	Voltage Sensitivity and Gating Charge in Shaker and Shab Family Potassium Channels. <i>Journal of General Physiology</i> , 1999, 114, 723-742.	1.9	155
51	Two-Microelectrode Voltage Clamp of <i>Xenopus</i> Oocytes: Voltage Errors and Compensation for Local Current Flow. <i>Biophysical Journal</i> , 1999, 77, 1980-1991.	0.5	40
52	pH-dependent modulation of the cloned renal K ⁺ channel, ROMK. <i>American Journal of Physiology - Renal Physiology</i> , 1998, 275, F972-F981.	2.7	66
53	Properties of the sodium current in rat chromaffin cells exposed to nerve growth factor in vitro. <i>Journal of Neurophysiology</i> , 1994, 72, 1938-1948.	1.8	15
54	Characterization of stretch-activated ion channels in cultured astrocytes. <i>Glia</i> , 1993, 8, 87-96.	4.9	29