

Felix Viana

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83
papers

5,309
citations

42
h-index

72
g-index

86
ext. papers

5,803
ext. citations

6.4
avg, IF

5.6
L-index

#	Paper	IF	Citations
83	Specificity of cold thermotransduction is determined by differential ionic channel expression. <i>Nature Neuroscience</i> , 2002 , 5, 254-60	25.5	286
82	TRPA1 channels mediate acute neurogenic inflammation and pain produced by bacterial endotoxins. <i>Nature Communications</i> , 2014 , 5, 3125	17.4	280
81	Ion channels in vascular endothelium. <i>Annual Review of Physiology</i> , 1997 , 59, 145-70	23.1	249
80	Ocular surface wetness is regulated by TRPM8-dependent cold thermoreceptors of the cornea. <i>Nature Medicine</i> , 2010 , 16, 1396-9	50.5	214
79	Nicotine activates the chemosensory cation channel TRPA1. <i>Nature Neuroscience</i> , 2009 , 12, 1293-9	25.5	186
78	Attenuation of thermal nociception and hyperalgesia by VR1 blockers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 2374-9	11.5	172
77	Modulation of neonatal rat hypoglossal motoneuron excitability by serotonin. <i>Neuroscience Letters</i> , 1992 , 143, 164-8	3.3	161
76	Variable threshold of trigeminal cold-thermosensitive neurons is determined by a balance between TRPM8 and Kv1 potassium channels. <i>Journal of Neuroscience</i> , 2009 , 29, 3120-31	6.6	146
75	Contribution of TRPM8 channels to cold transduction in primary sensory neurons and peripheral nerve terminals. <i>Journal of Neuroscience</i> , 2006 , 26, 12512-25	6.6	146
74	TRPA1 channels mediate cold temperature sensing in mammalian vagal sensory neurons: pharmacological and genetic evidence. <i>Journal of Neuroscience</i> , 2008 , 28, 7863-75	6.6	130
73	Inhibition of a background potassium channel by Gq protein alpha-subunits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 3422-7	11.5	121
72	TRPA1 channels: molecular sentinels of cellular stress and tissue damage. <i>Journal of Physiology</i> , 2016 , 594, 4151-69	3.9	114
71	Calcium conductances and their role in the firing behavior of neonatal rat hypoglossal motoneurons. <i>Journal of Neurophysiology</i> , 1993 , 69, 2137-49	3.2	110
70	Molecular and cellular limits to somatosensory specificity. <i>Molecular Pain</i> , 2008 , 4, 14	3.4	99
69	Chemosensory properties of the trigeminal system. <i>ACS Chemical Neuroscience</i> , 2011 , 2, 38-50	5.7	96
68	Mibefradil (Ro 40-5967) blocks multiple types of voltage-gated calcium channels in cultured rat spinal motoneurons. <i>Cell Calcium</i> , 1997 , 22, 299-311	4	96
67	Transient receptor potential channels in sensory neurons are targets of the antimycotic agent clotrimazole. <i>Journal of Neuroscience</i> , 2008 , 28, 576-86	6.6	96

66	Hypoosmotic- and pressure-induced membrane stretch activate TRPC5 channels. <i>Journal of Physiology</i> , 2008 , 586, 5633-49	3.9	95
65	Inhibition by mibefradil, a novel calcium channel antagonist, of Ca(2+)- and volume-activated Cl- channels in macrovascular endothelial cells. <i>British Journal of Pharmacology</i> , 1997 , 121, 547-55	8.6	94
64	Postnatal changes in rat hypoglossal motoneuron membrane properties. <i>Neuroscience</i> , 1994 , 59, 131-48	3.9	94
63	Converting cold into pain. <i>Experimental Brain Research</i> , 2009 , 196, 13-30	2.3	92
62	Bidirectional shifts of TRPM8 channel gating by temperature and chemical agents modulate the cold sensitivity of mammalian thermoreceptors. <i>Journal of Physiology</i> , 2007 , 581, 155-74	3.9	89
61	Lipid raft segregation modulates TRPM8 channel activity. <i>Journal of Biological Chemistry</i> , 2009 , 284, 9215-24	5.4	87
60	Plasma membranes as heat stress sensors: from lipid-controlled molecular switches to therapeutic applications. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014 , 1838, 1594-618	3.8	86
59	TRPM8 is a neuronal osmosensor that regulates eye blinking in mice. <i>Nature Communications</i> , 2015 , 6, 7150	17.4	82
58	Volume-activated Cl- currents in different mammalian non-excitabile cell types. <i>Pflugers Archiv European Journal of Physiology</i> , 1994 , 428, 364-71	4.6	79
57	Neuromodulation of hypoglossal motoneurons: cellular and developmental mechanisms. <i>Respiration Physiology</i> , 1997 , 110, 139-50		76
56	A role of the transient receptor potential domain of vanilloid receptor I in channel gating. <i>Journal of Neuroscience</i> , 2007 , 27, 11641-50	6.6	71
55	Identification of molecular determinants of channel gating in the transient receptor potential box of vanilloid receptor I. <i>FASEB Journal</i> , 2008 , 22, 3298-309	0.9	68
54	Modulation of high voltage-activated calcium channels by somatostatin in acutely isolated rat amygdaloid neurons. <i>Journal of Neuroscience</i> , 1996 , 16, 6000-11	6.6	68
53	Development of hypoglossal motoneurons. <i>Journal of Applied Physiology</i> , 1996 , 81, 1039-48	3.7	68
52	Repetitive firing properties of developing rat brainstem motoneurons. <i>Journal of Physiology</i> , 1995 , 486 (Pt 3), 745-61	3.9	67
51	TRPM8 ion channels differentially modulate proliferation and cell cycle distribution of normal and cancer prostate cells. <i>PLoS ONE</i> , 2012 , 7, e51825	3.7	63
50	Ion channel profile of TRPM8 cold receptors reveals a role of TASK-3 potassium channels in thermosensation. <i>Cell Reports</i> , 2014 , 8, 1571-82	10.6	62
49	Swelling-activated calcium signalling in cultured mouse primary sensory neurons. <i>European Journal of Neuroscience</i> , 2001 , 13, 722-34	3.5	61

48	Double- and triple-labeling of functionally characterized central neurons projecting to peripheral targets studied in vitro. <i>Neuroscience</i> , 1990 , 38, 829-41	3.9	59
47	N-glycosylation of TRPM8 ion channels modulates temperature sensitivity of cold thermoreceptor neurons. <i>Journal of Biological Chemistry</i> , 2012 , 287, 18218-29	5.4	57
46	TRPA1 channels: novel targets of 1,4-dihydropyridines. <i>Channels</i> , 2008 , 2, 429-38	3	57
45	TRPM8. <i>Handbook of Experimental Pharmacology</i> , 2014 , 222, 547-79	3.2	56
44	The contribution of TRPM8 channels to cold sensing in mammalian neurones. <i>Journal of Physiology</i> , 2005 , 567, 415-26	3.9	56
43	Characteristics and physiological role of hyperpolarization activated currents in mouse cold thermoreceptors. <i>Journal of Physiology</i> , 2009 , 587, 1961-76	3.9	49
42	Differential role of the menthol-binding residue Y745 in the antagonism of thermally gated TRPM8 channels. <i>Molecular Pain</i> , 2009 , 5, 62	3.4	44
41	Postnatal changes in membrane properties of mice trigeminal ganglion neurons. <i>Journal of Neurophysiology</i> , 2002 , 87, 2398-407	3.2	37
40	New Insight in Cold Pain: Role of Ion Channels, Modulation, and Clinical Perspectives. <i>Journal of Neuroscience</i> , 2016 , 36, 11435-11439	6.6	34
39	Membrane-tethered peptides patterned after the TRP domain (TRPducins) selectively inhibit TRPV1 channel activity. <i>FASEB Journal</i> , 2011 , 25, 1628-40	0.9	34
38	Calcium signalling through nucleotide receptor P2Y2 in cultured human vascular endothelium. <i>Cell Calcium</i> , 1998 , 24, 117-27	4	34
37	Deletion of the Cold Thermoreceptor TRPM8 Increases Heat Loss and Food Intake Leading to Reduced Body Temperature and Obesity in Mice. <i>Journal of Neuroscience</i> , 2018 , 38, 3643-3656	6.6	33
36	Repetitive firing properties of phrenic motoneurons in the cat. <i>Journal of Neurophysiology</i> , 1988 , 60, 687-702	3.2	33
35	Pharmacological and functional properties of TRPM8 channels in prostate tumor cells. <i>Pflugers Archiv European Journal of Physiology</i> , 2011 , 461, 99-114	4.6	32
34	Calcium-activated potassium channels in cultured human endothelial cells are not directly modulated by nitric oxide. <i>Cell Calcium</i> , 1997 , 21, 291-300	4	32
33	Transcriptional control of cholesterol biosynthesis in Schwann cells by axonal neuregulin 1. <i>Journal of Biological Chemistry</i> , 2007 , 282, 28768-28778	5.4	30
32	Volume-activated chloride currents are not correlated with P-glycoprotein expression. <i>Biochemical Journal</i> , 1995 , 307 (Pt 3), 713-8	3.8	29
31	Morphological and functional changes in TRPM8-expressing corneal cold thermoreceptor neurons during aging and their impact on tearing in mice. <i>Journal of Comparative Neurology</i> , 2018 , 526, 1859-1874	4.4	28

30	TRPA1 modulators in preclinical development. <i>Expert Opinion on Therapeutic Patents</i> , 2009 , 19, 1787-99	6.8	28
29	Postnatal development of hypoglossal motoneuron intrinsic properties. <i>Advances in Experimental Medicine and Biology</i> , 1995 , 381, 63-71	3.6	28
28	Role of Ih in the firing pattern of mammalian cold thermoreceptor endings. <i>Journal of Neurophysiology</i> , 2012 , 108, 3009-23	3.2	27
27	GAP43 stimulates inositol trisphosphate-mediated calcium release in response to hypotonicity. <i>EMBO Journal</i> , 2003 , 22, 3004-14	13	27
26	Cold sensitivity in axotomized fibers of experimental neuromas in mice. <i>Pain</i> , 2006 , 120, 24-35	8	26
25	Effects of thyrotropin-releasing hormone on rat motoneurons are mediated by G proteins. <i>Brain Research</i> , 1994 , 668, 220-9	3.7	25
24	Comparative effects of the nonsteroidal anti-inflammatory drug nepafenac on corneal sensory nerve fibers responding to chemical irritation. <i>Investigative Ophthalmology and Visual Science</i> , 2007 , 48, 182-8		24
23	Differential thermosensitivity of sensory neurons in the guinea pig trigeminal ganglion. <i>Journal of Neurophysiology</i> , 2003 , 90, 2219-31	3.2	24
22	The emerging pharmacology of TRPM8 channels: hidden therapeutic potential underneath a cold surface. <i>Current Pharmaceutical Biotechnology</i> , 2011 , 12, 54-67	2.6	23
21	Drug-transport and volume-activated chloride channel functions in human erythroleukemia cells: relation to expression level of P-glycoprotein. <i>Journal of Membrane Biology</i> , 1995 , 145, 87-98	2.3	23
20	Piezo2 Mediates Low-Threshold Mechanically Evoked Pain in the Cornea. <i>Journal of Neuroscience</i> , 2020 , 40, 8976-8993	6.6	22
19	Bidirectional modulation of thermal and chemical sensitivity of TRPM8 channels by the initial region of the N-terminal domain. <i>Journal of Biological Chemistry</i> , 2014 , 289, 21828-43	5.4	21
18	Lack of correlation between mdr-1 expression and volume-activation of chloride-currents in rat colon cancer cells. <i>Pflugers Archiv European Journal of Physiology</i> , 1995 , 430, 296-8	4.6	21
17	Expression of the cold thermoreceptor TRPM8 in rodent brain thermoregulatory circuits. <i>Journal of Comparative Neurology</i> , 2021 , 529, 234-256	3.4	20
16	The Immunosuppressant Macrolide Tacrolimus Activates Cold-Sensing TRPM8 Channels. <i>Journal of Neuroscience</i> , 2019 , 39, 949-969	6.6	19
15	The influence of cold temperature on cellular excitability of hippocampal networks. <i>PLoS ONE</i> , 2012 , 7, e52475	3.7	18
14	Mammalian cold TRP channels: impact on thermoregulation and energy homeostasis. <i>Pflugers Archiv European Journal of Physiology</i> , 2018 , 470, 761-777	4.6	15
13	Targeting TRPM8 for Pain Relief. <i>Open Pain Journal</i> , 2013 , 6, 154-164	0.3	15

12	TRPA1 Channels Mediate Human Gingival Fibroblast Response to Phenytoin. <i>Journal of Dental Research</i> , 2017 , 96, 832-839	8.1	12
11	Electrophysiological determination of the axonal projections of single dorsal respiratory group neurons to the cervical spinal cord of cat. <i>Brain Research</i> , 1988 , 454, 31-9	3.7	12
10	Nociceptors: thermal allodynia and thermal pain. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2018 , 156, 103-119	3	12
9	Thyrotropin-releasing hormone causes excitation of rat hypoglossal motoneurons in vitro. <i>Sleep</i> , 1993 , 16, S49-52	1.1	8
8	Projections and terminations of single respiratory axons in the cervical spinal cord of cat. <i>Brain Research</i> , 1988 , 449, 201-12	3.7	8
7	Understanding the mechanisms of cold-evoked pain in humans. <i>Pain</i> , 2009 , 147, 7-8	8	4
6	Heat Pain and Cold Pain 2020 , 178-199		3
5	Funny currents are becoming serious players in nociceptor sensitization. <i>Journal of Physiology</i> , 2008 , 586, 5841-2	3.9	2
4	Constitutive Phosphorylation as a Key Regulator of TRPM8 Channel Function. <i>Journal of Neuroscience</i> , 2021 , 41, 8475-8493	6.6	2
3	Potassium channels shape and brake primary sensory neurone excitability. <i>Journal of Physiology</i> , 2008 , 586, 5039-40	3.9	1
2	Detecting Warm Temperatures Is a Cool Kind of Thing. <i>Neuron</i> , 2020 , 106, 712-714	13.9	
1	Cover Image, Volume 526, Issue 11. <i>Journal of Comparative Neurology</i> , 2018 , 526, C1-C1	3.4	