Joris Vriens

List of Publications by Year
in descending order

103 papers	10,534 citations	66234 42 h-index	49773 87 g-index
110 all docs	110 docs citations	110 times ranked	9696 citing authors

#	Article	IF	Citations
1	Phenotypic spectrum of the recurrent TRPM3 p.(<scp>Val837Met</scp>) substitution in seven individuals with global developmental delay and hypotonia. American Journal of Medical Genetics, Part A, 2022, 188, 1667-1675.	0.7	8
2	Urine-Derived Kidney Progenitor Cells in Cystinosis. Cells, 2022, 11, 1245.	1.8	2
3	TRP channel expression correlates with the epithelialâ€“mesenchymal transition and high-risk endometrial carcinoma. Cellular and Molecular Life Sciences, 2022, 79, 1.	2.4	9
4	Transient Receptor Potential channels (TRP) in GtoPdb v.2022.1. IUPHAR/BPS Guide To Pharmacology CITE, 2022, 2022, .	0.2	0
5	Loratadine, an antihistaminic drug, suppresses the proliferation of endometrial stromal cells by inhibition of TRPV2. European Journal of Pharmacology, 2022, 928, 175086.	1.7	3
6	TRP Channel Cooperation for Nociception: Therapeutic Opportunities. Annual Review of Pharmacology and Toxicology, 2021, 61, 655-677.	4.2	54
7	The TRPM3 ion channel mediates nociception but not itch evoked by endogenous pruritogenic mediators. Biochemical Pharmacology, 2021, 183, 114310.	2.0	9
8	Transient receptor potential channel regulation by growth factors. Biochimica Et Biophysica Acta - Molecular Cell Research, 2021, 1868, 118950.	1.9	13
9	Mapping the expression of transient receptor potential channels across murine placental development. Cellular and Molecular Life Sciences, 2021, 78, 4993-5014.	2.4	12
10	Transient Receptor Potential Channels in the Epithelial-to-Mesenchymal Transition. International Journal of Molecular Sciences, 2021, 22, 8188.	1.8	14
11	Transient Receptor Potential channels (TRP) in GtoPdb v.2021.3. IUPHAR/BPS Guide To Pharmacology CITE, 2021, 2021, .	0.2	1
12	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Ion channels. British Journal of Pharmacology, 2021, 178, S157-S245.	2.7	187
13	Partial Agonistic Actions of Sex Hormone Steroids on TRPM3 Function. International Journal of Molecular Sciences, 2021, 22, 13652.	1.8	6
14	Reply to: Heat detection by the TRPM2 ion channel. Nature, 2020, 584, E13-E15.	13.7	9
15	Pharmacological properties of TRPM3 isoforms are determined by the length of the pore loop. British Journal of Pharmacology, 2020, , .	2.7	10
16	The Sensory Coding of Warm Perception. Neuron, 2020, 106, 830-841.e3.	3.8	119
17	Functional expression and pharmacological modulation of TRPM3 in human sensory neurons. British Journal of Pharmacology, 2020, 177, 2683-2695.	2.7	32
18	Double-label immunohistochemistry to assess labyrinth structure of the mouse placenta with stereology. Placenta, 2020, 94, 44-47.	0.7	21

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19	Mimicking Sampsonâ€™s Retrograde Menstrual Theory in Rats: A New Rat Model for Ongoing Endometriosis-Associated Pain. International Journal of Molecular Sciences, 2020, 21, 2326.	1.8	12
20	Gain of channel function and modified gating properties in TRPM3 mutants causing intellectual disability and epilepsy. ELife, 2020, 9, .	2.8	32
21	Upregulation of TRPM3 in nociceptors innervating inflamed tissue. ELife, 2020, 9, .	2.8	23
22	Horizontal Hippocampal Slices of the Mouse Brain. Journal of Visualized Experiments, 2020, , .	0.2	3
23	Patient-derived organoids from endometrial disease capture clinical heterogeneity and are amenable to drug screening. Nature Cell Biology, 2019, 21, 1041-1051.	4.6	281
24	Heat sensing involves a <scp>TRiPlet</scp> of ion channels. British Journal of Pharmacology, 2019, 176, 3893-3898.	2.7	17
25	Targeting TRP Channels â€“ Valuable Alternatives to Combat Pain, Lower Urinary Tract Disorders, and Type 2 Diabetes?. Trends in Pharmacological Sciences, 2019, 40, 669-683.	4.0	20
26	High-resolution contrast-enhanced microCT reveals the true three-dimensional morphology of the murine placenta. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13927-13936.	3.3	47
27	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Ion channels. British Journal of Pharmacology, 2019, 176, S142-S228.	2.7	242
28	Functional expression of the mechanosensitive PIEZO1 channel in primary endometrial epithelial cells and endometrial organoids. Scientific Reports, 2019, 9, 1779.	1.6	36
29	Transient Receptor Potential channels (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database. IUPHAR/BPS Guide To Pharmacology CITE, 2019, 2019, .	0.2	7
30	In vivo and ex vivo imaging of nociceptor expression and activity. Journal of Cellular Neuroscience and Oxidative Stress, 2019, 11, 3-3.	0.1	0
31	Optimization of Endometrial Decidualization in the Menstruating Mouse Model for Preclinical Endometriosis Research. Reproductive Sciences, 2018, 25, 1577-1588.	1.1	10
32	Mutations in the voltageâ€sensing domain affect the alternative ion permeation pathway in the TRPM3 channel. Journal of Physiology, 2018, 596, 2413-2432.	1.3	29
33	Sensing the heat with TRPM3. Pflugers Archiv European Journal of Physiology, 2018, 470, 799-807.	1.3	33
34	A TRP channel trio mediates acute noxious heat sensing. Nature, 2018, 555, 662-666.	13.7	329
35	Of Mice and Women: A Laparoscopic Mouse Model for Endometriosis. Journal of Minimally Invasive Gynecology, 2018, 25, 578-579.	0.3	5
36	Establishing life is a calcium-dependent TRiP: Transient receptor potential channels in reproduction. Biochimica Et Biophysica Acta - Molecular Cell Research, 2018, 1865, 1815-1829.	1.9	17

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37	Functional Expression of TRP Ion Channels in Endometrial Stromal Cells of Endometriosis Patients. International Journal of Molecular Sciences, 2018, 19, 2467.	1.8	12
38	The functional expression of transient receptor potential channels in the mouse endometrium. Human Reproduction, 2017, 32, 615-630.	0.4	20
39	Localization of an Alternative Ion Permeation Pathway in TRPM3. Biophysical Journal, 2017, 112, 466a.	0.2	0
40	TRP channel pores and local calcium signals. Cell Calcium, 2017, 66, 19-24.	1.1	42
41	Isolation of Mouse Endometrial Epithelial and Stromal Cells for In Vitro Decidualization. Journal of Visualized Experiments, 2017, , .	0.2	41
42	Definition of two agonist types at the mammalian cold-activated channel TRPM8. ELife, 2016, 5, .	2.8	25
43	TRPV4 is associated with central rather than nephrogenic osmoregulation. Pflugers Archiv European Journal of Physiology, 2016, 468, 1595-1607.	1.3	21
44	VAMP7 regulates constitutive membrane incorporation of the cold-activated channel TRPM8. Nature Communications, 2016, 7, 10489.	5.8	44
45	TRPV1 dysfunction in cystinosis patients harboring the homozygous 57â€‰kb deletion. Scientific Reports, 2016, 6, 35395.	1.6	15
46	Further Evidence of an Alternative Ion Permeation Pathway in the Nociceptor TRPM3. Biophysical Journal, 2016, 110, 612a.	0.2	0
47	Inhibition of the Glycolytic Activator PFKFB3 in Endothelium Induces Tumor Vessel Normalization, Impairs Metastasis, and Improves Chemotherapy. Cancer Cell, 2016, 30, 968-985.	7.7	464
48	A cellular pathway controlling functional plasma membrane incorporation of the cold sensor TRPM8. Temperature, 2016, 3, 521-523.	1.7	0
49	Signature and Pathophysiology of Non-canonical Pores in Voltage-Dependent Cation Channels. Reviews of Physiology, Biochemistry and Pharmacology, 2016, 170, 67-99.	0.9	9
50	Laparoscopic Surgery: A New Technique to Induce Endometriosis in a Mouse Model. Reproductive Sciences, 2016, 23, 1332-1339.	1.1	9
51	Urine of Preterm Neonates as a Novel Source of Kidney Progenitor Cells. Journal of the American Society of Nephrology: JASN, 2016, 27, 2762-2770.	3.0	32
52	Functional Analysis of the Thermosensor TRPM3 in Intact Sensory Fibers Using the Skin-Nerve Assay. Biophysical Journal, 2015, 108, 283a.	0.2	0
53	An Alternative Ion Permeation Pathway in the TRPM3Î±1 Isoform?. Biophysical Journal, 2015, 108, 282a-283a.	0.2	0
54	Biophysical Properties of the Alternative Ion Permeation Pore in TRPM3. Biophysical Journal, 2015, 108, 283a.	0.2	0

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55	TRPV4 participates in the establishment of trailing adhesions and directional persistence of migrating cells. Pflugers Archiv European Journal of Physiology, 2015, 467, 2107-2119.	1.3	31
56	TRPM3 in temperature sensing and beyond. Temperature, 2015, 2, 201-213.	1.7	58
57	Regulation of the transient receptor potential channel TRPM3 by phosphoinositides. Journal of General Physiology, 2015, 146, 51-63.	0.9	62
58	Activation of TRPM3 by a potent synthetic ligand reveals a role in peptide release. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1363-72.	3.3	105
59	Functional expression of transient receptor potential channels in human endometrial stromal cells during the luteal phase of the menstrual cycle. Human Reproduction, 2015, 30, 1421-1436.	0.4	37
60	Molecular Determinants of the Trafficking of the Coldâ€activated Transient Receptor Potential Ion Channel Trpm8. FASEB Journal, 2015, 29, 845.5.	0.2	0
61	Opening of an alternative ion permeation pathway in a nociceptor TRP channel. Nature Chemical Biology, 2014, 10, 188-195.	3.9	86
62	TRPM3 - A Promising Target for Analgesic Treatment. Biophysical Journal, 2014, 106, 754a.	0.2	0
63	Peripheral thermosensation in mammals. Nature Reviews Neuroscience, 2014, 15, 573-589.	4.9	304
64	Cellular Regulation of Transient Receptor Potential Melastatin 3 (TRPM3) Channel Activity. Biophysical Journal, 2014, 106, 334a.	0.2	1
65	Species-Dependent Effects of Mustard Oil on TRPM8. Biophysical Journal, 2014, 106, 337a.	0.2	0
66	Novel TRPM3 Agonist - Single Compound Opens Multiple Ion Permeation Pathways. Biophysical Journal, 2014, 106, 334a.	0.2	0
67	Cholesterol loss during glutamate-mediated excitotoxicity. EMBO Journal, 2012, 31, 1764-1773.	3.5	83
68	The â€˜headache treeâ€™ via umbellulone and TRPA1 activates the trigeminovascular system. Brain, 2012, 135, 376-390.	3.7	163
69	Pore and Gating Properties of TRPM3 Isoforms. Biophysical Journal, 2012, 102, 342a.	0.2	0
70	Vascular Hypoxic Preconditioning Relies on TRPV4-Dependent Calcium Influx and Proper Intercellular Gap Junctions Communication. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 2241-2249.	1.1	49
71	821 HC-067047, A TRPV4-SELECTIVE ANTAGONIST, IMPROVES BLADDER FUNCTION IN MICE WITH CYCLOPHOSPHAMIDE-INDUCED CYSTITIS. European Urology Supplements, 2011, 10, 260.	0.1	0
72	Transient Receptor Potential Melastatin 3 Channel. Biophysical Journal, 2011, 100, 109a.	0.2	0

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73	TRPM3 Is a Nociceptor Channel Involved in the Detection of Noxious Heat. Neuron, 2011, 70, 482-494.	3.8	454
74	Dominant TRPV4 mutations in nonlethal and lethal metatropic dysplasia. American Journal of Medical Genetics, Part A, 2010, 152A, 1169-1177.	0.7	93
75	Inhibition of the cation channel TRPV4 improves bladder function in mice and rats with cyclophosphamide-induced cystitis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19084-19089.	3.3	351
76	Functional characterization of transient receptor potential channels in mouse urothelial cells. American Journal of Physiology - Renal Physiology, 2010, 298, F692-F701.	1.3	135
77	Clotrimazole Potentiates TRPM3 Responses to Pregnenolone Sulfate. Biophysical Journal, 2010, 98, 341a.	0.2	0
78	TRPM1 Forms Ion Channels Associated with Melanin Content in Melanocytes. Science Signaling, 2009, 2, ra21.	1.6	164
79	Mutations in the Gene Encoding the Calcium-Permeable Ion Channel TRPV4 Produce Spondylometaphyseal Dysplasia, Kozlowski Type and Metatropic Dysplasia. American Journal of Human Genetics, 2009, 84, 307-315.	2.6	173
80	Pharmacology of Vanilloid Transient Receptor Potential Cation Channels. Molecular Pharmacology, 2009, 75, 1262-1279.	1.0	366
81	TRPV4-Mediated Calcium Influx Regulates Terminal Differentiation of Osteoclasts. Cell Metabolism, 2008, 8, 257-265.	7.2	260
82	Role of cytochrome P450-dependent transient receptor potential V4 activation in flow-induced vasodilatation. Cardiovascular Research, 2008, 80, 445-452.	1.8	165
83	Herbal Compounds and Toxins Modulating TRP Channels. Current Neuropharmacology, 2008, 6, 79-96.	1.4	155
84	Role of Caveolar Compartmentation in Endothelium-Derived Hyperpolarizing Factorâ€“Mediated Relaxation. Circulation, 2008, 117, 1065-1074.	1.6	202
85	Citral Sensing by TRANSient Receptor Potential Channels in Dorsal Root Ganglion Neurons. PLoS ONE, 2008, 3, e2082.	1.1	101
86	Determinants of 4Î±-Phorbol Sensitivity in Transmembrane Domains 3 and 4 of the Cation Channel TRPV4. Journal of Biological Chemistry, 2007, 282, 12796-12803.	1.6	119
87	Testing of iatrogenic lingual nerve injury using a novel psychophysical method and oral reflexes. International Journal of Oral and Maxillofacial Surgery, 2007, 36, 545-549.	0.7	11
88	63 TRPV4 IS LOCALISED ON UROTHELIUM: DOES IT PLAYA ROLE IN AFFERENT BLADDER SIGNALLING?. European Urology Supplements, 2007, 6, 38.	0.1	2
89	TRPV1 is involved in stretch-evoked contractile changes in the rat autonomous bladder model: a study with piperine, a new TRPV1 agonist. Neurourology and Urodynamics, 2007, 26, 440-450.	0.8	37
90	A novel function of capsaicin-sensitive TRPV1 channels: Involvement in cell migration. Cell Calcium, 2007, 42, 17-25.	1.1	129

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91	Deletion of the transient receptor potential cation channel TRPV4 impairs murine bladder voiding. Journal of Clinical Investigation, 2007, 117, 3453-3462.	3.9	283
92	TRPV1 ACTS AS A LOCAL STRETCH-SENSING MOLECULE IN RAT BLADDER. European Urology Supplements, 2006, 5, 799.	0.1	0
93	Modulation of the Ca 2 Permeable Cation Channel TRPV4 by Cytochrome P450 Epoxygenases in Vascular Endothelium. Circulation Research, 2005, 97, 908-915.	2.0	334
94	Cell swelling, heat, and chemical agonists use distinct pathways for the activation of the cation channel TRPV4. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 396-401.	3.3	561
95	TRPV4 calcium entry channel: a paradigm for gating diversity. American Journal of Physiology - Cell Physiology, 2004, 286, C195-C205.	2.1	401
96	TRPV channels and modulation by hepatocyte growth factor/scatter factor in human hepatoblastoma (HepG2) cells. Cell Calcium, 2004, 36, 19-28.	1.1	103
97	Invertebrate TRP proteins as functional models for mammalian channels. Pflugers Archiv European Journal of Physiology, 2004, 449, 213-26.	1.3	49
98	The TRPV4 channel: structure-function relationship and promiscuous gating behaviour. Pflugers Archiv European Journal of Physiology, 2003, 446, 298-303.	1.3	132
99	Modulation of TRPV4 gating by intra- and extracellular Ca2+. Cell Calcium, 2003, 33, 489-495.	1.1	118
100	Anandamide and arachidonic acid use epoxyeicosatrienoic acids to activate TRPV4 channels. Nature, 2003, 424, 434-438.	13.7	895
101	Molecular Determinants of Permeation through the Cation Channel TRPV4. Journal of Biological Chemistry, 2002, 277, 33704-33710.	1.6	270
102	Heat-evoked Activation of TRPV4 Channels in a HEK293 Cell Expression System and in Native Mouse Aorta Endothelial Cells. Journal of Biological Chemistry, 2002, 277, 47044-47051.	1.6	580
103	Activation of TRPV4 Channels (hVRL-2/mTRP12) by Phorbol Derivatives. Journal of Biological Chemistry, 2002, 277, 13569-13577.	1.6	519