Manuel F Navedo

List of Publications by Year
in descending order

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81 papers	3,306 citations	136740 32 h-index	161609 54 g-index
93 all docs	93 docs citations	93 times ranked	2740 citing authors

#	Article	IF	Citations
1	Deciphering cellular signals in adult mouse sinoatrial node cells. IScience, 2022, 25, 103693.	1.9	4
2	Mechanisms and physiological implications of cooperative gating of clustered ion channels. Physiological Reviews, 2022, 102, 1159-1210.	13.1	44
3	Cellular and molecular effects of hyperglycemia on ion channels in vascular smooth muscle. Cellular and Molecular Life Sciences, 2021, 78, 31-61.	2.4	25
4	Î²-Adrenergic control of sarcolemmal Ca _V 1.2 abundance by small GTPase Rab proteins. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	22
5	Compartmentalized cAMP signaling in arterial myocytes. FASEB Journal, 2021, 35, .	0.2	0
6	S1928 Phosphorylation Tunes Vascular Lâ€•type Channel Ca _V 1.2 and Arterial Function during Angiotensin II Signaling and Hypertension. FASEB Journal, 2021, 35, .	0.2	0
7	Genetically engineered mice for combinatorial cardiovascular optobiology. ELife, 2021, 10, .	2.8	9
8	Î²₂Adrenergic Receptor Complexes with the L-Type Ca²⁺Channel Ca_V1.2 and AMPA-Type Glutamate Receptors: Paradigms for Pharmacological Targeting of Protein Interactions. Annual Review of Pharmacology and Toxicology, 2020, 60, 155-174.	4.2	13
9	AKAP5 complex facilitates purinergic modulation of vascular L-type Ca2+ channel CaV1.2. Nature Communications, 2020, 11, 5303.	5.8	22
10	Maladaptive response of arterial myocytes to chronic exposure to Ca2+channel blockers. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18151-18153.	3.3	0
11	Hyperglycemia regulates cardiac K+ channels via O-GlcNAc-CaMKII and NOX2-ROS-PKC pathways. Basic Research in Cardiology, 2020, 115, 71.	2.5	43
12	Ion Channels and Their Regulation in Vascular Smooth Muscle. , 2020, , .		0
13	Î±â€•Actininâ€•1 promotes activity of the Lâ€•type Ca ²⁺ channel Ca _v 1.2. EMBO Journal, 2020, 39, e102622.	3.5	20
14	TRPML1ng on sparks. Science Signaling, 2020, 13, .	1.6	1
15	Purinergic Signaling During Hyperglycemia in Vascular Smooth Muscle Cells. Frontiers in Endocrinology, 2020, 11, 329.	1.5	14
16	A stochastic model of ion channel cluster formation in the plasma membrane. Journal of General Physiology, 2019, 151, 1116-1134.	0.9	34
17	Î²â€•adrenergicâ€•mediated dynamic augmentation of sarcolemmal Ca_V1.2 clustering and coâ€•operativity in ventricular myocytes. Journal of Physiology, 2019, 597, 2139-2162.	1.3	38
18	Adenylyl cyclase 5â€“generated cAMP controls cerebral vascular reactivity during diabetic hyperglycemia. Journal of Clinical Investigation, 2019, 129, 3140-3152.	3.9	35

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19	A Gs-coupled purinergic receptor boosts Ca2+ influx and vascular contractility during diabetic hyperglycemia. ELife, 2019, 8, .	2.8	33
20	Î²-blockers augment L-type Ca2+ channel activity by targeting spatially restricted Î²2AR signaling in neurons. ELife, 2019, 8, .	2.8	12
21	Going with the flow: contextual fineâ€tuning of vascular reactivity. Journal of Physiology, 2018, 596, 1127-1128.	1.3	0
22	Functionally distinct and selectively phosphorylated GPCR subpopulations co-exist in a single cell. Nature Communications, 2018, 9, 1050.	5.8	28
23	Regulation of voltageâ€gated potassium channels in vascular smooth muscle during hypertension and metabolic disorders. Microcirculation, 2018, 25, e12423.	1.0	50
24	Regulation of microvascular function by voltageâ€gated potassium channels: New tricks for an â€œancientâ€•dog. Microcirculation, 2018, 25, e12435.	1.0	7
25	Coronary microvascular Kv1 channels as regulatory sensors of intracellular pyridine nucleotide redox potential. Microcirculation, 2018, 25, e12426.	1.0	19
26	Single nucleotide polymorphisms alter kinase anchoring and the subcellular targeting of A-kinase anchoring proteins. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11465-E11474.	3.3	41
27	Dynamic L-type CaV1.2 channel trafficking facilitates CaV1.2 clustering and cooperative gating. Biochimica Et Biophysica Acta - Molecular Cell Research, 2018, 1865, 1341-1355.	1.9	29
28	A model for cooperative gating of L-type Ca2+ channels and its effects on cardiac alternans dynamics. PLoS Computational Biology, 2018, 14, e1005906.	1.5	19
29	Anchored G_sâ€coupled purinergic receptor regulation of Lâ€type Ca_V1.2 and vascular tone in diabetic hyperglycemia. FASEB Journal, 2018, 32, 569.10.	0.2	0
30	Dynamic Lâ€type Ca V 1.2 channel trafficking facilitates Ca V 1.2 clustering and cooperative gating. FASEB Journal, 2018, 32, 751.1.	0.2	0
31	Total Internal Reflection Fluorescence Microscopy in Vascular Smooth Muscle. , 2018, , 87-103.		2
32	Ser ¹⁹²⁸ phosphorylation by PKA stimulates the L-type Ca ²⁺ channel Ca _V 1.2 and vasoconstriction during acute hyperglycemia and diabetes. Science Signaling, 2017, 10, .	1.6	85
33	Predominant contribution of L-type Cav1.2 channel stimulation to impaired intracellular calcium and cerebral artery vasoconstriction in diabetic hyperglycemia. Channels, 2017, 11, 340-346.	1.5	16
34	Phosphorylation of Ser ¹⁹²⁸ mediates the enhanced activity of the L-type Ca ²⁺ channel Ca _v 1.2 by the Î² ₂ -adrenergic receptor in neurons. Science Signaling, 2017, 10, .	1.6	91
35	Distance constraints on activation of TRPV4 channels by AKAP150-bound PKCÎ± in arterial myocytes. Journal of General Physiology, 2017, 149, 639-659.	0.9	40
36	Impaired BKCa channel function in native vascular smooth muscle from humans with type 2 diabetes. Scientific Reports, 2017, 7, 14058.	1.6	31

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37	Calcium Channels in Vascular Smooth Muscle. Advances in Pharmacology, 2017, 78, 49-87.	1.2	74
38	Potassium channels in the heart: structure, function and regulation. Journal of Physiology, 2017, 595, 2209-2228.	1.3	79
39	Phosphorylation of Ca _v 1.2 on S1928 uncouples the Lâ€•type Ca ²⁺ channel from the Î² ₂ adrenergic receptor. EMBO Journal, 2016, 35, 1330-1345.	3.5	61
40	AKAP150 participates in calcineurin/NFAT activation during the down-regulation of voltage-gated K+ currents in ventricular myocytes following myocardial infarction. Cellular Signalling, 2016, 28, 733-740.	1.7	23
41	Diabetic cornea wounds produce significantly weaker electric signals that may contribute to impaired healing. Scientific Reports, 2016, 6, 26525.	1.6	27
42	Selective Down-regulation of KV2.1 Function Contributes to Enhanced Arterial Tone during Diabetes. Journal of Biological Chemistry, 2015, 290, 7918-7929.	1.6	30
43	Arterial Smooth Muscle Mitochondria Amplify Hydrogen Peroxide Microdomains Functionally Coupled to L-Type Calcium Channels. Circulation Research, 2015, 117, 1013-1023.	2.0	28
44	Graded Ca2+/calmodulin-dependent coupling of voltage-gated CaV1.2 channels. ELife, 2015, 4, .	2.8	97
45	AKAP150 Contributes to Enhanced Vascular Tone by Facilitating Large-Conductance Ca ²⁺ -Activated K ⁺ Channel Remodeling in Hyperglycemia and Diabetes Mellitus. Circulation Research, 2014, 114, 607-615.	2.0	86
46	Local control of TRPV4 channels by AKAP150-targeted PKC in arterial smooth muscle. Journal of General Physiology, 2014, 143, 559-575.	0.9	86
47	Mission CaMKIIÎ³: Shuttle Calmodulin from Membrane to Nucleus. Cell, 2014, 159, 235-237.	13.5	10
48	AKAP5 Keeps L-type Channels and NFAT on Their Toes. Cell Reports, 2014, 7, 1341-1342.	2.9	4
49	Local control of TRPV4 channels by AKAP150-targeted PKC in arterial smooth muscle. Journal of Cell Biology, 2014, 205, 2053OIA89.	2.3	0
50	Local Regulation of Lâ€•Type Ca²⁺ Channel Sparklets in Arterial Smooth Muscle. Microcirculation, 2013, 20, 290-298.	1.0	30
51	CaV1.2 sparklets in heart and vascular smooth muscle. Journal of Molecular and Cellular Cardiology, 2013, 58, 67-76.	0.9	51
52	Calcium Dynamics in Vascular Smooth Muscle. Microcirculation, 2013, 20, 281-289.	1.0	88
53	Capturing single L-type Ca2+ channel function with optics. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 1657-1664.	1.9	11
54	Regulation of L-type calcium channel sparklet activity by c-Src and PKC-Î±. American Journal of Physiology - Cell Physiology, 2013, 305, C568-C577.	2.1	15

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55	Anchored phosphatases modulate glucose homeostasis. EMBO Journal, 2012, 31, 3991-4004.	3.5	69
56	Ca ²⁺ signaling amplification by oligomerization of L-type Ca _v 1.2 channels. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1749-1754.	3.3	104
57	AKAP150 is required for NFATc3â€induced vascular BKCa channel suppression during diabetic hypertension. FASEB Journal, 2012, 26, 872.26.	0.2	0
58	Restoration of Normal L-Type Ca ²⁺ Channel Function During Timothy Syndrome by Ablation of an Anchoring Protein. Circulation Research, 2011, 109, 255-261.	2.0	93
59	Relationship between Ca²⁺sparklets and sarcoplasmic reticulum Ca²⁺load and release in rat cerebral arterial smooth muscle. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H2285-H2294.	1.5	28
60	Sympathetic Stimulation of Adult Cardiomyocytes Requires Association of AKAP5 With a Subpopulation of L-Type Calcium Channels. Circulation Research, 2010, 107, 747-756.	2.0	163
61	Natural inequalities: why some L-type Ca2+ channels work harder than others. Journal of General Physiology, 2010, 136, 143-147.	0.9	13
62	Increased Coupled Gating of L-Type Ca ²⁺ Channels During Hypertension and Timothy Syndrome. Circulation Research, 2010, 106, 748-756.	2.0	134
63	Elevated Ca²⁺ sparklet activity during acute hyperglycemia and diabetes in cerebral arterial smooth muscle cells. American Journal of Physiology - Cell Physiology, 2010, 298, C211-C220.	2.1	80
64	Knockout of Na⁺/Ca²⁺ exchanger in smooth muscle attenuates vasoconstriction and L-type Ca²⁺ channel current and lowers blood pressure. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H1472-H1483.	1.5	71
65	The role of TRPV4 in rat parenchymal arterioles. FASEB Journal, 2010, 24, .	0.2	1
66	Molecular and biophysical mechanisms of Ca2+ sparklets in smooth muscle. Journal of Molecular and Cellular Cardiology, 2009, 47, 436-444.	0.9	36
67	Roles of câ€Src and PKC in production of persistent calcium sparklet activity. FASEB Journal, 2009, 23, 1000.19.	0.2	0
68	Functional contribution of Î±3L8â€² to the neuronal nicotinic Î±3 receptor. Journal of Neuroscience Research, 2008, 86, 2884-2894.	1.3	0
69	CALCIUM SPARKLETS IN ARTERIAL SMOOTH MUSCLE. Clinical and Experimental Pharmacology and Physiology, 2008, 35, 1121-1126.	0.9	32
70	The control of Ca ²⁺ influx and NFATc3 signaling in arterial smooth muscle during hypertension. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15623-15628.	3.3	94
71	AKAP150 Is Required for Stuttering Persistent Ca ²⁺ Sparklets and Angiotensin IIâ€“Induced Hypertension. Circulation Research, 2008, 102, e1-e11.	2.0	120
72	Cav1.3 channels produce persistent calcium sparklets, but Cav1.2 channels are responsible for sparklets in mouse arterial smooth muscle. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H1359-H1370.	1.5	50

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73	Calcium sparklets regulate local and global calcium in murine arterial smooth muscle. Journal of Physiology, 2007, 579, 187-201.	1.3	85
74	Novel Î² subunit mutation causes a slow-channel syndrome by enhancing activation and decreasing the rate of agonist dissociation. Molecular and Cellular Neurosciences, 2006, 32, 82-90.	1.0	5
75	Contribution of valine 7â€² of TMD2 to gating of neuronal Î±3 receptor subtypes. Journal of Neuroscience Research, 2006, 84, 1778-1788.	1.3	3
76	On the Loose: Uncaging Ca2+-induced Ca2+ Release in Smooth Muscle. Journal of General Physiology, 2006, 127, 221-223.	0.9	3
77	Mechanisms Underlying Heterogeneous Ca2+ Sparklet Activity in Arterial Smooth Muscle. Journal of General Physiology, 2006, 127, 611-622.	0.9	108
78	Constitutively active L-type Ca2+ channels. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11112-11117.	3.3	185
79	NFATc3 Regulates Kv2.1 Expression in Arterial Smooth Muscle. Journal of Biological Chemistry, 2004, 279, 47326-47334.	1.6	92
80	Tryptophan Substitutions Reveal the Role of Nicotinic Acetylcholine Receptor Î±-TM3 Domain in Channel Gating:Â Differences betweenTorpedoand Muscle-Type AChRâ€. Biochemistry, 2004, 43, 78-84.	1.2	19
81	Novel delta subunit mutation in slow-channel syndrome causes severe weakness by novel mechanisms. Annals of Neurology, 2002, 51, 102-112.	2.8	71