Alexandru Babes

List of Publications by Year
in descending order

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39	2,516	394421 19	315739 38
papers	citations	h-index	g-index

41	41	41	3310
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Methylglyoxal modification of Nav1.8 facilitates nociceptive neuron firing and causes hyperalgesia in diabetic neuropathy. Nature Medicine, 2012, 18, 926-933.	30.7	414
2	Sensory neuron sodium channel Nav1.8 is essential for pain at low temperatures. Nature, 2007, 447, 856-859.	27.8	355
3	H2S and NO cooperatively regulate vascular tone by activating a neuroendocrine HNOâ€“TRPA1â€“CGRP signalling pathway. Nature Communications, 2014, 5, 4381.	12.8	324
4	TRPA1 and Substance P Mediate Colitis in Mice. Gastroenterology, 2011, 141, 1346-1358.	1.3	197
5	A coldâ€•and mentholâ€•activated current in rat dorsal root ganglion neurones: properties and role in cold transduction. Journal of Physiology, 2002, 545, 595-614.	2.9	193
6	Two populations of cold-sensitive neurons in rat dorsal root ganglia and their modulation by nerve growth factor. European Journal of Neuroscience, 2004, 20, 2276-2282.	2.6	150
7	Desensitization of cold- and menthol-sensitive rat dorsal root ganglion neurones by inflammatory mediators. Experimental Brain Research, 2007, 178, 89-98.	1.5	88
8	Systemic desensitization through TRPA1 channels by capsazepine and mustard oil - a novel strategy against inflammation and pain. Scientific Reports, 2016, 6, 28621.	3.3	78
9	Photosensitization in Porphyrias and Photodynamic Therapy Involves TRPA1 and TRPV1. Journal of Neuroscience, 2016, 36, 5264-5278.	3.6	66
10	Transient receptor potential melastatin 8 ion channel in macrophages modulates colitis through a balance-shift in TNF-alpha and interleukin-10 production. Mucosal Immunology, 2016, 9, 1500-1513.	6.0	65
11	A high-threshold heat-activated channel in cultured rat dorsal root ganglion neurons resembles TRPV2 and is blocked by gadolinium. European Journal of Neuroscience, 2007, 26, 12-22.	2.6	60
12	Camphor Activates and Sensitizes Transient Receptor Potential Melastatin 8 (TRPM8) to Cooling and Icilin. Chemical Senses, 2013, 38, 563-575.	2.0	53
13	TRPM8, a Sensor for Mild Cooling in Mammalian Sensory Nerve Endings. Current Pharmaceutical Biotechnology, 2011, 12, 78-88.	1.6	47
14	Cooling inhibits capsaicin-induced currents in cultured rat dorsal root ganglion neurones. Neuroscience Letters, 2002, 317, 131-134.	2.1	43
15	Acute and chronic effects of neurotrophic factors BDNF and GDNF on responses mediated by thermo-sensitive TRP channels in cultured rat dorsal root ganglion neurons. Brain Research, 2009, 1284, 54-67.	2.2	43
16	The anti-diabetic drug glibenclamide is an agonist of the transient receptor potential Ankyrin 1 (TRPA1) ion channel. European Journal of Pharmacology, 2013, 704, 15-22.	3.5	41
17	A novel type of coldâ€•sensitive neuron in rat dorsal root ganglia with rapid adaptation to cooling stimuli. European Journal of Neuroscience, 2006, 24, 691-698.	2.6	38
18	Hofmeister Effects of Anions on the Kinetics of Partial Reactions of the Na + ,K + -ATPase. Biophysical Journal, 1999, 77, 267-281.	0.5	31

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19	The anthelminthic drug praziquantel is a selective agonist of the sensory transient receptor potential melastatin type 8 channel. Toxicology and Applied Pharmacology, 2017, 336, 55-65.	2.8	31
20	Characterization of Functional Transient Receptor Potential Melastatin 8 Channels in Human Pancreatic Ductal Adenocarcinoma Cells. Pancreas, 2014, 43, 795-800.	1.1	19
21	Na+ Transport, and the E1P-E2P Conformational Transition of the Na+/K+-ATPase. Biophysical Journal, 2000, 79, 2557-2571.	0.5	17
22	Regulation of TRPM8 channel activity by Srcâ€mediated tyrosine phosphorylation. Journal of Cellular Physiology, 2020, 235, 5192-5203.	4.1	17
23	Functional expression of the transient receptor potential ankyrin type 1 channel in pancreatic adenocarcinoma cells. Scientific Reports, 2021, 11, 2018.	3.3	16
24	Electrophysiological and Neurochemical Techniques to Investigate Sensory Neurons in Analgesia Research. Methods in Molecular Biology, 2010, 617, 237-259.	0.9	15
25	Mini-review: The nociceptive sensory functions of the polymodal receptor Transient Receptor Potential Ankyrin Type 1 (TRPA1). Neuroscience Letters, 2021, 764, 136286.	2.1	14
26	Ion channels involved in cold detection in mammals: TRP and non-TRP mechanisms. Biophysical Reviews, 2009, 1, 193-200.	3.2	12
27	The phospholipase C inhibitor U73122 is a potent agonist of the polymodal transient receptor potential ankyrin type 1 (TRPA1) receptor channel. Naunyn-Schmiedeberg's Archives of Pharmacology, 2020, 393, 177-189.	3.0	10
28	Highâ€dose phenylephrine increases meningeal blood flow through TRPV1 receptor activation and release of calcitonin geneâ€related peptide. European Journal of Pain, 2020, 24, 383-397.	2.8	10
29	Role of 5â€HT1A and 5â€HT3 receptors in serotonergic activation of sensory neurons in relation to itch and pain behavior in the rat. Journal of Neuroscience Research, 2020, 98, 1999-2017.	2.9	10
30	Photosensitization of TRPA1 and TRPV1 by 7-dehydrocholesterol: implications for the Smithâ€“Lemliâ€“Opitz syndrome. Pain, 2017, 158, 2475-2486.	4.2	9
31	The formalin test does not probe inflammatory pain but excitotoxicity in rodent skin. Physiological Reports, 2022, 10, e15194.	1.7	9
32	Control of the allosteric equilibrium of hemoglobin by cross-linking agents. Protein Science, 2002, 11, 1376-1383.	7.6	8
33	Psoralens activate and photosensitize Transient Receptor Potential channels Ankyrin type 1 (TRPA1) and Vanilloid type 1 (TRPV1). European Journal of Pain, 2021, 25, 122-135.	2.8	8
34	Neuronal microRNAs modulate TREK two-pore domain K⁺ channel expression and current density. RNA Biology, 2020, 17, 651-662.	3.1	7
35	The M-Channel Blocker Linopirdine Is an Agonist of the Capsaicin Receptor TRPV1. Journal of Pharmacological Sciences, 2010, 114, 332-340.	2.5	6
36	Glycolytic metabolite methylglyoxal inhibits cold and menthol activation of the transient receptor potential melastatin type 8 channel. Journal of Neuroscience Research, 2016, 94, 282-294.	2.9	6

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37	Sumatriptan activates TRPA1. Cephalalgia Reports, 2019, 2, 251581631984715.	0.7	1
38	Slowing of inactivation at positive potentials in a neuronal K+ channel is not due to preferential closed-state inactivation. Biochemical Society Transactions, 2000, 28, A453-A453.	3.4	0
39	Modulation of Transient Receptor Potential (TRP) channels by tyrosine phosphorylation. Reviews in Biological and Biomedical Sciences, 2020, 3, 77-87.	0.1	0