Guillaume Sandoz

List of Publications by Year
in descending order

45 papers	1,698 citations	279701 23 h-index	289141 40 g-index
50 all docs	50 docs citations	50 times ranked	1956 citing authors

#	Article	IF	Citations
1	Regulation of two-pore-domain potassium TREK channels and their involvement in pain perception and migraine. Neuroscience Letters, 2022, 773, 136494.	1.0	7
2	Photopharmacological approaches for dissecting potassium channel physiology. Current Opinion in Pharmacology, 2022, 63, 102178.	1.7	5
3	Migraine and Two-Pore-Domain Potassium Channels. Neuroscientist, 2021, 27, 268-284.	2.6	5
4	KCNE1 is an auxiliary subunit of two distinct ion channel superfamilies. Cell, 2021, 184, 534-544.e11.	13.5	18
5	Breaking the Dimer of the Voltage Sensing Phosphatase. Biophysical Journal, 2021, 120, 158a.	0.2	0
6	A fine-tuned azobenzene for enhanced photopharmacology inÂvivo. Cell Chemical Biology, 2021, 28, 1648-1663.e16.	2.5	35
7	TREK channel activation suppresses migraine pain phenotype. IScience, 2021, 24, 102961.	1.9	14
8	Influence of Dimeric Interactions on Voltage Sensing Phosphatase Activity. Biophysical Journal, 2019, 116, 102a.	0.2	0
9	TREK for High-Speed and High-Frequency Conduction through the Axon. Neuron, 2019, 104, 831-833.	3.8	5
10	Migraine-Associated TRESK Mutations Increase Neuronal Excitability through Alternative Translation Initiation and Inhibition of TREK. Neuron, 2019, 101, 232-245.e6.	3.8	99
11	Dimerization of the voltage-sensing phosphatase controls its voltage-sensing and catalytic activity. Journal of General Physiology, 2018, 150, 683-696.	0.9	15
12	Does VSP Multimerize and Does It Matter?. Biophysical Journal, 2018, 114, 476a.	0.2	0
13	A Bacterial Toxin with Analgesic Properties: Hyperpolarization of DRG Neurons by Mycolactone. Toxins, 2017, 9, 227.	1.5	28
14	Heterodimerization within the TREK channel subfamily produces a diverse family of highly regulated potassium channels. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4194-4199.	3.3	59
15	Heterodimerization within the TREK Channel Subfamily. Biophysical Journal, 2016, 110, 607a.	0.2	0
16	Area-specific development of distinct projection neuron subclasses is regulated by postnatal epigenetic modifications. ELife, 2016, 5, e09531.	2.8	87
17	Phospholipase D2 Specifically Regulates TREK Channels via Direct Interaction and Local Production of Phosphatidic Acid. Biophysical Journal, 2015, 108, 436a.	0.2	0
18	Phospholipase D2 specifically regulates TREK potassium channels via direct interaction and local production of phosphatidic acid. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13547-13552.	3.3	47

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19	Mycobacterial Toxin Induces Analgesia in Buruli Ulcer by Targeting the Angiotensin Pathways. Cell, 2014, 157, 1565-1576.	13.5	160
20	Baclofen and Other GABAB Receptor Agents Are Allosteric Modulators of the CXCL12 Chemokine Receptor CXCR4. Journal of Neuroscience, 2013, 33, 11643-11654.	1.7	37
21	Optogenetic techniques for the study of native potassium channels. Frontiers in Molecular Neuroscience, 2013, 6, 6.	1.4	15
22	Optical Control of Endogenous Proteins with a Photoswitchable Conditional Subunit Reveals a Role for TREK1 in GABAB Signaling. Neuron, 2012, 74, 1005-1014.	3.8	98
23	Molecular regulations governing TREK and TRAAK channel functions. Channels, 2011, 5, 402-409.	1.5	133
24	Optical probing of a dynamic membrane interaction that regulates the TREK1 channel. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2605-2610.	3.3	59
25	Potassium Channel Silencing by Constitutive Endocytosis and Intracellular Sequestration. Journal of Biological Chemistry, 2010, 285, 4798-4805.	1.6	57
26	Membrane Trafficking Controls K2P1/TWIK1 Channel Expression at the Cell Surface. Biophysical Journal, 2010, 98, 537a.	0.2	0
27	Extracellular acidification exerts opposite actions on TREK1 and TREK2 potassium channels via a single conserved histidine residue. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14628-14633.	3.3	122
28	Protein Complex Analysis of Native Brain Potassium Channels by Proteomics. Methods in Molecular Biology, 2008, 491, 113-123.	0.4	7
29	Mtap2 Is a Constituent of the Protein Network That Regulates Twik-Related K⁺Channel Expression and Trafficking. Journal of Neuroscience, 2008, 28, 8545-8552.	1.7	53
30	Does Sumoylation Control K2P1/TWIK1 Background K+ Channels?. Cell, 2007, 130, 563-569.	13.5	75
31	AKAP150, a switch to convert mechano-, pH- and arachidonic acid-sensitive TREK K+ channels into open leak channels. EMBO Journal, 2006, 25, 5864-5872.	3.5	101
32	CavÂ-subunit displacement is a key step to induce the reluctant state of P/Q calcium channels by direct G protein regulation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6267-6272.	3.3	29
33	Repositioning of charged I-II loop amino acid residues within the electric field by beta subunit as a novel working hypothesis for the control of fast P/Q calcium channel inactivation. European Journal of Neuroscience, 2004, 19, 1759-1772.	1.2	14
34	Synthesis and characterization of Pi4, a scorpion toxin from Pandinus imperator that acts on K+ channels. FEBS Journal, 2003, 270, 3583-3592.	0.2	41
35	The Interaction between the I-II Loop and the III-IV Loop of Cav2.1 Contributes to Voltage-dependent Inactivation in a Î²-Dependent Manner. Journal of Biological Chemistry, 2002, 277, 10003-10013.	1.6	40
36	Evolution of maurotoxin conformation and blocking efficacy towards Shaker B channels during the course of folding and oxidation in vitro. Biochemical Journal, 2002, 361, 409.	1.7	2

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37	Use of a purified and functional recombinant calcium-channel Î²4 subunit in surface-plasmon resonance studies. Biochemical Journal, 2002, 364, 285-292.	1.7	22
38	Modelling of the III-IV loop, a domain involved in calcium channel Cav2.1 inactivation, highlights a structural homology with the Î³ subunit of G proteins. European Journal of Neuroscience, 2002, 16, 219-228.	1.2	9
39	Multiple determinants in voltage-dependent P/Q calcium channels control their retention in the endoplasmic reticulum. European Journal of Neuroscience, 2002, 16, 883-895.	1.2	48
40	Disulfide bridge reorganization induced by proline mutations in maurotoxin. FEBS Letters, 2001, 489, 202-207.	1.3	19
41	Parameters affecting in vitro oxidation/folding of maurotoxin, a four-disulphide-bridged scorpion toxin. Biochemical Journal, 2001, 358, 681-692.	1.7	21
42	Parameters affecting in vitro oxidation/folding of maurotoxin, a four-disulphide-bridged scorpion toxin. Biochemical Journal, 2001, 358, 681.	1.7	14
43	Distinct properties and differential Î² subunit regulation of two C-terminal isoforms of the P/Q-type Ca2+-channel Î±1Asubunit. European Journal of Neuroscience, 2001, 14, 987-997.	1.2	23
44	Maurotoxin Versus Pi1/HsTx1 Scorpion Toxins. Journal of Biological Chemistry, 2000, 275, 39394-39402.	1.6	38
45	Synthesis, 1H NMR Structure, and Activity of a Three-disulfide-bridged Maurotoxin Analog Designed to Restore the Consensus Motif of Scorpion Toxins. Journal of Biological Chemistry, 2000, 275, 13605-13612.	1.6	34