

Luigi Catacuzzeno

List of Publications by Year in Descending Order

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Version: 2024-04-10

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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.

42 papers	866 citations	19 h-index	28 g-index
48 ext. papers	1,045 ext. citations	4.6 avg, IF	3.95 L-index

#	Paper	IF	Citations
42	Experimental challenges in ion channel research: uncovering basic principles of permeation and gating in potassium channels. <i>Advances in Physics: X</i> , 2022 , 7,	5.1	1
41	Multiscale modeling shows that dielectric differences make NaV channels faster than KV channels. <i>Journal of General Physiology</i> , 2021 , 153,	3.4	2
40	Gating current noise produced by Brownian models of a voltage sensor. <i>Biophysical Journal</i> , 2021 , 120, 3983-4001	2.9	0
39	Voltage-dependent gating in K channels: experimental results and quantitative models. <i>Pflugers Archiv European Journal of Physiology</i> , 2020 , 472, 27-47	4.6	4
38	Ion Channels in Glioma Malignancy. <i>Reviews of Physiology, Biochemistry and Pharmacology</i> , 2020 , 1	2.9	4
37	The Volume-Regulated Anion Channel in Glioblastoma. <i>Cancers</i> , 2019 , 11,	6.6	7
36	Radiation Increases Functional KCa3.1 Expression and Invasiveness in Glioblastoma. <i>Cancers</i> , 2019 , 11,	6.6	9
35	Simulation of Gating Currents of the Shaker K Channel Using a Brownian Model of the Voltage Sensor. <i>Biophysical Journal</i> , 2019 , 117, 2005-2019	2.9	4
34	Ca ²⁺ -dependent and Ca ²⁺ -independent somatic release from trigeminal neurons. <i>Journal of Cellular Physiology</i> , 2019 , 234, 10977-10989	7	3
33	BK channels blockage inhibits hypoxia-induced migration and chemoresistance to cisplatin in human glioblastoma cells. <i>Journal of Cellular Physiology</i> , 2018 , 233, 6866-6877	7	24
32	Structure, Gating and Basic Functions of the Ca ²⁺ -activated K Channel of Intermediate Conductance. <i>Current Neuropharmacology</i> , 2018 , 16, 608-617	7.6	22
31	Role of KCa3.1 Channels in Modulating Ca Oscillations during Glioblastoma Cell Migration and Invasion. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	20
30	Pain Control by Proprioceptive and Exteroceptive Stimulation at the Trigeminal Level. <i>Frontiers in Physiology</i> , 2018 , 9, 1037	4.6	3
29	Kv1.3 activity perturbs the homeostatic properties of astrocytes in glioma. <i>Scientific Reports</i> , 2018 , 8, 7654	4.9	11
28	Hypoxia Modulates the Swelling-Activated Cl Current in Human Glioblastoma Cells: Role in Volume Regulation and Cell Survival. <i>Journal of Cellular Physiology</i> , 2017 , 232, 91-100	7	18
27	Overexpression of Large-Conductance Calcium-Activated Potassium Channels in Human Glioblastoma Stem-Like Cells and Their Role in Cell Migration. <i>Journal of Cellular Physiology</i> , 2017 , 232, 2478-2488	7	25
26	Gain-of-function defects of astrocytic Kir4.1 channels in children with autism spectrum disorders and epilepsy. <i>Scientific Reports</i> , 2016 , 6, 34325	4.9	43

25	Megalencephalic leukoencephalopathy with subcortical cysts protein-1 regulates epidermal growth factor receptor signaling in astrocytes. <i>Human Molecular Genetics</i> , 2016 , 25, 1543-58	5.6	23
24	A Calsequestrin-1 Mutation Associated with a Skeletal Muscle Disease Alters Sarcoplasmic Ca ²⁺ Release. <i>PLoS ONE</i> , 2016 , 11, e0155516	3.7	12
23	Update on the implication of potassium channels in autism: K(+) channelautism spectrum disorder. <i>Frontiers in Cellular Neuroscience</i> , 2015 , 9, 34	6.1	49
22	Reconciling the discrepancies on the involvement of large-conductance Ca(2+)-activated K channels in glioblastoma cell migration. <i>Frontiers in Cellular Neuroscience</i> , 2015 , 9, 152	6.1	13
21	New insights into the pathogenesis and therapeutics of episodic ataxia type 1. <i>Frontiers in Cellular Neuroscience</i> , 2015 , 9, 317	6.1	40
20	Expression and function of a CP339,818-sensitive K ⁺ current in a subpopulation of putative nociceptive neurons from adult mouse trigeminal ganglia. <i>Journal of Neurophysiology</i> , 2015 , 113, 2653-65	3.2	3
19	Are tyrosinase inhibitors in sunscreens and cosmetics enhancing UV carcinogenicity?. <i>Experimental Dermatology</i> , 2015 , 24, 546-7	4	7
18	Novel phenotype associated with a mutation in the KCNA1(Kv1.1) gene. <i>Frontiers in Physiology</i> , 2014 , 5, 525	4.6	30
17	Genetically induced dysfunctions of Kir2.1 channels: implications for short QT3 syndrome and autism-epilepsy phenotype. <i>Human Molecular Genetics</i> , 2014 , 23, 4875-86	5.6	52
16	The role of ion channels in the hypoxia-induced aggressiveness of glioblastoma. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 467	6.1	10
15	Identification of key signaling molecules involved in the activation of the swelling-activated chloride current in human glioblastoma cells. <i>Journal of Membrane Biology</i> , 2014 , 247, 45-55	2.3	20
14	A theoretical study on the role of Ca(2+)-activated K ⁺ channels in the regulation of hormone-induced Ca ²⁺ oscillations and their synchronization in adjacent cells. <i>Journal of Theoretical Biology</i> , 2012 , 309, 103-12	2.3	10
13	The increased incidence of malignant melanoma in obese individuals is due to impaired melanogenesis and melanocyte DNA repair. <i>Medical Hypotheses</i> , 2012 , 78, 533-5	3.8	13
12	The inhibition of KCa3.1 channels activity reduces cell motility in glioblastoma derived cancer stem cells. <i>PLoS ONE</i> , 2012 , 7, e47825	3.7	50
11	Expression and Role of the Intermediate-Conductance Calcium-Activated Potassium Channel KCa3.1 in Glioblastoma. <i>Journal of Signal Transduction</i> , 2012 , 2012, 421564		36
10	Synthetic aromatic compounds interfering with melanogenesis are responsible of the rising trend of malignant melanoma incidence. <i>Medical Hypotheses</i> , 2011 , 76, 374-7	3.8	5
9	Serum-activated K and Cl currents underlay U87-MG glioblastoma cell migration. <i>Journal of Cellular Physiology</i> , 2011 , 226, 1926-33	7	49
8	CXCL12-induced glioblastoma cell migration requires intermediate conductance Ca ²⁺ -activated K ⁺ channel activity. <i>American Journal of Physiology - Cell Physiology</i> , 2010 , 299, C175-84	5.4	83

7	The main product of specialized tissues regulates cell life and may cause neoplastic transformation. <i>Medical Hypotheses</i> , 2010 , 74, 847-54	3.8	
6	Histamine hyperpolarizes human glioblastoma cells by activating the intermediate-conductance Ca ²⁺ -activated K ⁺ channel. <i>American Journal of Physiology - Cell Physiology</i> , 2009 , 297, C102-10	5.4	29
5	The differential expression of low-threshold K ⁺ currents generates distinct firing patterns in different subtypes of adult mouse trigeminal ganglion neurones. <i>Journal of Physiology</i> , 2008 , 586, 5101-18	3.9	35
4	Modeling study of the effects of membrane surface charge on calcium microdomains and neurotransmitter release. <i>Biophysical Journal</i> , 2008 , 95, 2160-71	2.9	6
3	Expression and modulation of the intermediate- conductance Ca ²⁺ -activated K ⁺ channel in glioblastoma GL-15 cells. <i>Cellular Physiology and Biochemistry</i> , 2006 , 18, 47-56	3.9	42
2	A model of intracellular Ca ²⁺ oscillations based on the activity of the intermediate-conductance Ca ²⁺ -activated K ⁺ channels. <i>Biophysical Chemistry</i> , 2005 , 113, 17-23	3.5	9
1	NPPB block of the intermediate-conductance Ca ²⁺ -activated K ⁺ channel. <i>European Journal of Pharmacology</i> , 2004 , 497, 1-6	5.3	38