

Tuck Wah Soong

List of Publications by Year in descending order

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81
papers

12,609
citations

87888

38
h-index

66911

78
g-index

84
all docs

84
docs citations

84
times ranked

24517
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
3	Structure and functional expression of a member of the low voltage-activated calcium channel family. <i>Science</i> , 1993, 260, 1133-1136.	12.6	558
4	Calmodulin bifurcates the local Ca ²⁺ signal that modulates P/Q-type Ca ²⁺ channels. <i>Nature</i> , 2001, 411, 484-489.	27.8	371
5	Mutations in Potassium Channel Kir2.6 Cause Susceptibility to Thyrotoxic Hypokalemic Periodic Paralysis. <i>Cell</i> , 2010, 140, 88-98.	28.9	245
6	Determinants of PKC-dependent modulation of a family of neuronal calcium channels. <i>Neuron</i> , 1995, 15, 929-940.	8.1	225
7	Structure and Inhibition of the SARS Coronavirus Envelope Protein Ion Channel. <i>PLoS Pathogens</i> , 2009, 5, e1000511.	4.7	216
8	Transcript Scanning Reveals Novel and Extensive Splice Variations in Human L-type Voltage-gated Calcium Channel, Cav1.2 β 1 Subunit. <i>Journal of Biological Chemistry</i> , 2004, 279, 44335-44343.	3.4	145
9	Systematic Identification of Splice Variants in Human P/Q-Type Channel β 2.1 Subunits: Implications for Current Density and Ca ²⁺ -Dependent Inactivation. <i>Journal of Neuroscience</i> , 2002, 22, 10142-10152.	3.6	131
10	RNA Editing of the IQ Domain in Cav1.3 Channels Modulates Their Ca ²⁺ -Dependent Inactivation. <i>Neuron</i> , 2012, 73, 304-316.	8.1	123
11	Splicing for alternative structures of Cav1.2 Ca channels in cardiac and smooth muscles. <i>Cardiovascular Research</i> , 2005, 68, 197-203.	3.8	107
12	The Small Hydrophobic Protein of the Human Respiratory Syncytial Virus Forms Pentameric Ion Channels. <i>Journal of Biological Chemistry</i> , 2012, 287, 24671-24689.	3.4	106
13	A Smooth Muscle Cav1.2 Calcium Channel Splice Variant Underlies Hyperpolarized Window Current and Enhanced State-dependent Inhibition by Nifedipine. <i>Journal of Biological Chemistry</i> , 2007, 282, 35133-35142.	3.4	101
14	Cav1.2 channelopathies: from arrhythmias to autism, bipolar disorder, and immunodeficiency. <i>Pflügers Archiv European Journal of Physiology</i> , 2010, 460, 353-359.	2.8	91
15	Alternative Splicing as a Molecular Switch for Ca ²⁺ /Calmodulin-Dependent Facilitation of P/Q-Type Ca ²⁺ Channels. <i>Journal of Neuroscience</i> , 2004, 24, 6334-6342.	3.6	90
16	Manipulating energy migration within single lanthanide activator for switchable upconversion emissions towards bidirectional photoactivation. <i>Nature Communications</i> , 2019, 10, 4416.	12.8	85
17	Functional Characterization of Alternative Splicing in the C Terminus of L-type Cav1.3 Channels. <i>Journal of Biological Chemistry</i> , 2011, 286, 42725-42735.	3.4	83
18	Enhanced Autophagy from Chronic Toxicity of Iron and Mutant A53T β -Synuclein. <i>Journal of Biological Chemistry</i> , 2011, 286, 33380-33389.	3.4	82

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19	Smooth Muscle-selective Alternatively Spliced Exon Generates Functional Variation in Cav1.2 Calcium Channels. <i>Journal of Biological Chemistry</i> , 2004, 279, 50329-50335.	3.4	79
20	Alternative Splicing of the CaV1.3 Channel IQ Domain, a Molecular Switch for Ca ²⁺ -Dependent Inactivation within Auditory Hair Cells. <i>Journal of Neuroscience</i> , 2006, 26, 10690-10699.	3.6	77
21	Basic Fibroblast Growth Factor-induced Neuronal Differentiation of Mouse Bone Marrow Stromal Cells Requires FGFR-1, MAPK/ERK, and Transcription Factor AP-1. <i>Journal of Biological Chemistry</i> , 2008, 283, 5287-5295.	3.4	76
22	Genetic Basis of Tetrodotoxin Resistance in Pufferfishes. <i>Current Biology</i> , 2005, 15, 2069-2072.	3.9	73
23	A FTH1 gene:pseudogene:miRNA network regulates tumorigenesis in prostate cancer. <i>Nucleic Acids Research</i> , 2018, 46, 1998-2011.	14.5	73
24	Adaptive evolution of tetrodotoxin resistance in animals. <i>Trends in Genetics</i> , 2006, 22, 621-626.	6.7	69
25	Activation of Corticotropin-Releasing Factor Receptor 1 Selectively Inhibits Ca _v 3.2 T-Type Calcium Channels. <i>Molecular Pharmacology</i> , 2008, 73, 1596-1609.	2.3	62
26	Developmental Activation of Calmodulin-Dependent Facilitation of Cerebellar P-Type Ca ²⁺ Current. <i>Journal of Neuroscience</i> , 2005, 25, 8282-8294.	3.6	61
27	Alternative Splicing at C Terminus of CaV1.4 Calcium Channel Modulates Calcium-dependent Inactivation, Activation Potential, and Current Density. <i>Journal of Biological Chemistry</i> , 2012, 287, 832-847.	3.4	56
28	Nitric Oxide, Iron and Neurodegeneration. <i>Frontiers in Neuroscience</i> , 2019, 13, 114.	2.8	55
29	Continuously Tunable Ca ²⁺ Regulation of RNA-Edited CaV1.3 Channels. <i>Cell Reports</i> , 2013, 5, 367-377.	6.4	49
30	Dopamine induces LTP differentially in apical and basal dendrites through BDNF and voltage-dependent calcium channels. <i>Learning and Memory</i> , 2012, 19, 294-299.	1.3	48
31	Metaplasticity mechanisms restore plasticity and associativity in an animal model of Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5527-5532.	7.1	48
32	Signature combinatorial splicing profiles of rat cardiac- and smooth-muscle Cav1.2 channels with distinct biophysical properties. <i>Cell Calcium</i> , 2007, 41, 417-428.	2.4	46
33	Alternative Splicing of P/Q-Type Ca ²⁺ Channels Shapes Presynaptic Plasticity. <i>Cell Reports</i> , 2017, 20, 333-343.	6.4	46
34	Epigenetic regulation of microglial phosphatidylinositol 3-kinase pathway involved in long-term potentiation and synaptic plasticity in rats. <i>Glia</i> , 2020, 68, 656-669.	4.9	46
35	Enhanced long-term potentiation and impaired learning in mice lacking alternative exon 33 of Cav1.2 calcium channel. <i>Translational Psychiatry</i> , 2022, 12, 1.	4.8	45
36	Modest CaV1.342-selective inhibition by compound 8 is β -subunit dependent. <i>Nature Communications</i> , 2014, 5, 4481.	12.8	43

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37	Alternative Splicing of L-type Ca _v 1.2 Calcium Channels: Implications in Cardiovascular Diseases. <i>Genes</i> , 2017, 8, 344.	2.4	43
38	Alternative splicing of voltage-gated calcium channels: from molecular biology to disease. <i>Pflugers Archiv European Journal of Physiology</i> , 2009, 458, 481-487.	2.8	42
39	C-Terminal Alternative Splicing of Ca _v 1.3 Channels Distinctively Modulates Their Dihydropyridine Sensitivity. <i>Molecular Pharmacology</i> , 2013, 84, 643-653.	2.3	42
40	Altered function of neuronal L-type calcium channels in ageing and neuroinflammation: Implications in age-related synaptic dysfunction and cognitive decline. <i>Ageing Research Reviews</i> , 2018, 42, 86-99.	10.9	41
41	Substance P induces plasticity and synaptic tagging/capture in rat hippocampal area CA2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8741-E8749.	7.1	39
42	Splice Variant Specific Modulation of Ca _v 1.2 Calcium Channel by Galectin-1 Regulates Arterial Constriction. <i>Circulation Research</i> , 2011, 109, 1250-1258.	4.5	37
43	Progesterone Impairs Human Ether-a-go-go-related Gene (HERG) Trafficking by Disruption of Intracellular Cholesterol Homeostasis. <i>Journal of Biological Chemistry</i> , 2011, 286, 22186-22194.	3.4	36
44	Age and gender-dependent alternative splicing of P/Q-type calcium channel EF-hand. <i>Neuroscience</i> , 2007, 145, 1026-1036.	2.3	35
45	Differential splicing patterns of L-Type calcium channel Cav1.2 subunit in hearts of Spontaneously Hypertensive Rats and Wistar Kyoto rats. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 118-130.	4.1	35
46	ApoE4 expression accelerates hippocampus-dependent cognitive deficits by enhancing A β 2 impairment of insulin signaling in an Alzheimer's disease mouse model. <i>Scientific Reports</i> , 2016, 6, 26119.	3.3	32
47	Non-Invasive Multimodality Imaging Directly Shows TRPM4 Inhibition Ameliorates Stroke Reperfusion Injury. <i>Translational Stroke Research</i> , 2019, 10, 91-103.	4.2	31
48	Mitochondrial Dysfunction and Parkinson's Disease - Near-Infrared Photobiomodulation as a Potential Therapeutic Strategy. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 89.	3.4	31
49	Alternative splicing modulates diltiazem sensitivity of cardiac and vascular smooth muscle Ca _v 1.2 calcium channels. <i>British Journal of Pharmacology</i> , 2010, 160, 1631-1640.	5.4	30
50	Tyrosine kinase-independent inhibition by genistein on spermatogenic T-type calcium channels attenuates mouse sperm motility and acrosome reaction. <i>Cell Calcium</i> , 2009, 45, 133-143.	2.4	29
51	Exclusion of alternative exon 33 of Ca _v 1.2 calcium channels in heart is proarrhythmogenic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4288-E4295.	7.1	28
52	Bidirectional modulation of hippocampal synaptic plasticity by Dopaminergic D4-receptors in the CA1 area of hippocampus. <i>Scientific Reports</i> , 2017, 7, 15571.	3.3	28
53	Molecular alteration of Cav1.2 calcium channel in chronic myocardial infarction. <i>Pflugers Archiv European Journal of Physiology</i> , 2009, 458, 701-711.	2.8	27
54	Iron mitigates DMT1-mediated manganese cytotoxicity via the ASK1-JNK signaling axis: Implications of iron supplementation for manganese toxicity. <i>Scientific Reports</i> , 2016, 6, 21113.	3.3	27

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55	Regulation of Blood Pressure by Targeting Ca _v 1.2-Galectin-1 Protein Interaction. <i>Circulation</i> , 2018, 138, 1431-1445.	1.6	26
56	TRPM4-specific blocking antibody attenuates reperfusion injury in a rat model of stroke. <i>Pflügers Archiv European Journal of Physiology</i> , 2019, 471, 1455-1466.	2.8	25
57	APP upregulation contributes to retinal ganglion cell degeneration via JNK3. <i>Cell Death and Differentiation</i> , 2018, 25, 663-678.	11.2	24
58	S-Nitrosylation of Divalent Metal Transporter 1 Enhances Iron Uptake to Mediate Loss of Dopaminergic Neurons and Motoric Deficit. <i>Journal of Neuroscience</i> , 2018, 38, 8364-8377.	3.6	24
59	Aberrant Splicing Promotes Proteasomal Degradation of L-type Ca _v 1.2 Calcium Channels by Competitive Binding for Ca _v 1 ² Subunits in Cardiac Hypertrophy. <i>Scientific Reports</i> , 2016, 6, 35247.	3.3	22
60	Transgenic Mice Overexpressing the Divalent Metal Transporter 1 Exhibit Iron Accumulation and Enhanced Parkin Expression in the Brain. <i>NeuroMolecular Medicine</i> , 2017, 19, 375-386.	3.4	21
61	Tissue-selective restriction of RNA editing of Ca _v 1.3 by splicing factor SRSF9. <i>Nucleic Acids Research</i> , 2018, 46, 7323-7338.	14.5	21
62	Separate Locations of Urocortin and its Receptors in Mouse Testis: Function in Male Reproduction and the Relevant Mechanisms. <i>Cellular Physiology and Biochemistry</i> , 2007, 19, 303-312.	1.6	17
63	Alternative Splicing Generates a Novel Truncated Cav1.2 Channel in Neonatal Rat Heart. <i>Journal of Biological Chemistry</i> , 2015, 290, 9262-9272.	3.4	17
64	Postnatal TrkB ablation in corticolimbic interneurons induces social dominance in male mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9909-E9915.	7.1	17
65	Deregulated expression of a longevity gene, Klotho, in the C9orf72 deletion mice with impaired synaptic plasticity and adult hippocampal neurogenesis. <i>Acta Neuropathologica Communications</i> , 2020, 8, 155.	5.2	16
66	Expression of Urocortin 2 and its Inhibitory Effects on Intracellular Ca ₂₊ Via L-Type Voltage-Gated Calcium Channels in Rat Pheochromocytoma (PC12) Cells. <i>Neuropsychopharmacology</i> , 2006, 31, 2600-2609.	5.4	15
67	Urocortin II Inhibits the Apoptosis of Mesenteric Arterial Smooth Muscle Cells Via L-type Calcium Channels in Spontaneously Hypertensive Rats. <i>Cellular Physiology and Biochemistry</i> , 2006, 17, 111-120.	1.6	15
68	Understanding alternative splicing of Cav 1.2 calcium channels for a new approach towards individualized medicine. <i>Journal of Biomedical Research</i> , 2010, 24, 181-186.	1.6	14
69	Stimulation of Synaptic Vesicle Exocytosis by the Mental Disease Gene DISC1 is Mediated by N-Type Voltage-Gated Calcium Channels. <i>Frontiers in Synaptic Neuroscience</i> , 2016, 8, 15.	2.5	14
70	Characterization of Ca _v 1.2 exon 33 heterozygous knockout mice and negative correlation between Rbfox1 and Ca _v 1.2 exon 33 expressions in human heart failure. <i>Channels</i> , 2018, 12, 51-57.	2.8	14
71	Regulation of cardiovascular calcium channel activity by post-translational modifications or interacting proteins. <i>Pflügers Archiv European Journal of Physiology</i> , 2020, 472, 653-667.	2.8	13
72	Differential Binding of Human ApoE Isoforms to Insulin Receptor is Associated with Aberrant Insulin Signaling in AD Brain Samples. <i>NeuroMolecular Medicine</i> , 2018, 20, 124-132.	3.4	12

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73	Alternative Splicing at N Terminus and Domain I Modulates CaV1.2 Inactivation and Surface Expression. Biophysical Journal, 2018, 114, 2095-2106.	0.5	12
74	Comparative genomics of the human and Fugu voltage-gated calcium channel α_1 -subunit gene family reveals greater diversity in Fugu. Gene, 2006, 366, 117-127.	2.2	10
75	Targeting novel human transient receptor potential ankyrin 1 splice variation with splice-switching antisense oligonucleotides. Pain, 2021, 162, 2097-2109.	4.2	4
76	Post-transcriptional modifications and "Calmodulation" of voltage-gated calcium channel function: Reflections by two collaborators of David T Yue. Channels, 2016, 10, 14-19.	2.8	2
77	RNA editing of ion channels and receptors in physiology and neurological disorders. , 2022, 1, .		2
78	Alternative Exon Effect on Phenotype of Cav1.2 Channelopathy: Implications in Timothy Syndrome. , 2014, , 205-224.		1
79	Calcium Channel Splice Variants and Their Effects in Brain and Cardiovascular Function. Advances in Experimental Medicine and Biology, 2021, 1349, 67-86.	1.6	1
80	Neuronal L-type calcium channels in aging. , 2021, , 213-225.		0
81	Splicing and Editing to Customize CaV Channel Structures for Optimal Neural Function. , 2013, , 289-318.		0