Yang Yang

List of Publications by Year in Descending Order

52 papers	1,759 citations	22 h-index	41 g-index
66 ext. papers	2,038 ext. citations	6.1 avg, IF	4.55 L-index

#	Paper	IF	Citations
52	Deficiency of autism-related Scn2a gene in mice disrupts sleep patterns and circadian rhythms.. *Neurobiology of Disease*, **2022**, 105690	7.5	0
51	Hyperexcitability and Pharmacological Responsiveness of Cortical Neurons Derived from Human iPSCs Carrying Epilepsy-Associated Sodium Channel Nav1.2-L1342P Genetic Variant. *Journal of Neuroscience*, **2021**, 41, 10194-10208	6.6	3
50	Hydropathicity-based prediction of pain-causing NaV1.7 variants. *BMC Bioinformatics*, **2021**, 22, 212	3.6	0
49	Multi-Electrode Array of Sensory Neurons as an In Vitro Platform to Identify the Nociceptive Response to Pharmaceutical Buffer Systems of Injectable Biologics. *Pharmaceutical Research*, **2021**, 38, 1179-1186	4.5	1
48	Severe deficiency of the voltage-gated sodium channel Na1.2 elevates neuronal excitability in adult mice. *Cell Reports*, **2021**, 36, 109495	10.6	9
47	Generation and basic characterization of a gene-trap knockout mouse model of Scn2a with a substantial reduction of voltage-gated sodium channel Na 1.2 expression. *Genes, Brain and Behavior* , **2021**, 20, e12725	3.6	6
46	Examining Sodium and Potassium Channel Conductances Involved in Hyperexcitability of Chemotherapy-Induced Peripheral Neuropathy: A Mathematical and Cell Culture-Based Study. *Frontiers in Computational Neuroscience*, **2020**, 14, 564980	3.5	2
45	Prediction and Optimization of Na1.7 Sodium Channel Inhibitors Based on Machine Learning and Simulated Annealing. *Journal of Chemical Information and Modeling*, **2020**, 60, 2739-2753	6.1	6
44	Deficiency of anti-inflammatory cytokine IL-4 leads to neural hyperexcitability and aggravates cerebral ischemia-reperfusion injury. *Acta Pharmaceutica Sinica B*, **2020**, 10, 1634-1645	15.5	15
43	Cumulative hydropathic topology of a voltage-gated sodium channel at atomic resolution. *Proteins: Structure, Function and Bioinformatics*, **2020**, 88, 1319-1328	4.2	2
42	Resilience to Pain: A Peripheral Component Identified Using Induced Pluripotent Stem Cells and Dynamic Clamp. *Journal of Neuroscience*, **2019**, 39, 382-392	6.6	37
41	Na1.7 as a Pharmacogenomic Target for Pain: Moving Toward Precision Medicine. *Trends in Pharmacological Sciences*, **2018**, 39, 258-275	13.2	37
40	Reverse pharmacogenomics: carbamazepine normalizes activation and attenuates thermal hyperexcitability of sensory neurons due to Na 1.7 mutation I234T. *British Journal of Pharmacology*, **2018**, 175, 2261-2271	8.6	20
39	Familial gain-of-function Na1.9 mutation in a painful channelopathy. *Journal of Neurology, Neurosurgery and Psychiatry*, **2017**, 88, 233-240	5.5	36
38	Network topology of NaV1.7 mutations in sodium channel-related painful disorders. *BMC Systems Biology*, **2017**, 11, 28	3.5	24
37	Nav1.7-A1632G Mutation from a Family with Inherited Erythromelalgia: Enhanced Firing of Dorsal Root Ganglia Neurons Evoked by Thermal Stimuli. *Journal of Neuroscience*, **2016**, 36, 7511-22	6.6	43
36	Pharmacotherapy for Pain in a Family With Inherited Erythromelalgia Guided by Genomic Analysis and Functional Profiling. *JAMA Neurology*, **2016**, 73, 659-67	17.2	56

35	The Domain II S4-S5 Linker in Nav1.9: A Missense Mutation Enhances Activation, Impairs Fast Inactivation, and Produces Human Painful Neuropathy. *NeuroMolecular Medicine*, **2015**, 17, 158-69	4.6	55
34	Impairment of the Vascular KATP Channel Imposes Fatal Susceptibility to Experimental Diabetes Due to Multi-Organ Injuries. *Journal of Cellular Physiology*, **2015**, 230, 2915-26	7	10
33	S-glutathionylation of ion channels: insights into the regulation of channel functions, thiol modification crosstalk, and mechanosensing. *Antioxidants and Redox Signaling*, **2014**, 20, 937-51	8.4	23
32	Depolarized inactivation overcomes impaired activation to produce DRG neuron hyperexcitability in a Nav1.7 mutation in a patient with distal limb pain. *Journal of Neuroscience*, **2014**, 34, 12328-40	6.6	18
31	Acute exposure of methylglyoxal leads to activation of KATP channels expressed in HEK293 cells. *Acta Pharmacologica Sinica*, **2014**, 35, 58-64	8	15
30	Small-fiber neuropathy Nav1.8 mutation shifts activation to hyperpolarized potentials and increases excitability of dorsal root ganglion neurons. *Journal of Neuroscience*, **2013**, 33, 14087-97	6.6	84
29	The Na(V)1.7 sodium channel: from molecule to man. *Nature Reviews Neuroscience*, **2013**, 14, 49-62	13.5	374
28	A new Nav1.7 mutation in an erythromelalgia patient. *Biochemical and Biophysical Research Communications*, **2013**, 432, 99-104	3.4	19
27	Multistate structural modeling and voltage-clamp analysis of epilepsy/autism mutation Kv10.2-R327H demonstrate the role of this residue in stabilizing the channel closed state. *Journal of Neuroscience*, **2013**, 33, 16586-93	6.6	30
26	Molecular architecture of a sodium channel S6 helix: radial tuning of the voltage-gated sodium channel 1.7 activation gate. *Journal of Biological Chemistry*, **2013**, 288, 13741-7	5.4	20
25	Structural modelling and mutant cycle analysis predict pharmacoresponsiveness of a Na(V)1.7 mutant channel. *Nature Communications*, **2012**, 3, 1186	17.4	77
24	S-Glutathionylation underscores the modulation of the heteromeric Kir4.1-Kir5.1 channel in oxidative stress. *Journal of Physiology*, **2012**, 590, 5335-48	3.9	13
23	Nav1.8 expression is not restricted to nociceptors in mouse peripheral nervous system. *Pain*, **2012**, 153, 2017-2030	8	170
22	Prolonged exposure to methylglyoxal causes disruption of vascular KATP channel by mRNA instability. *American Journal of Physiology - Cell Physiology*, **2012**, 303, C1045-54	5.4	16
21	K(ATP) channel action in vascular tone regulation: from genetics to diseases. *Acta Physiologica Sinica*, **2012**, 64, 1-13	1.3	18
20	Rosiglitazone inhibits vascular KATP channels and coronary vasodilation produced by isoprenaline. *British Journal of Pharmacology*, **2011**, 164, 2064-72	8.6	16
19	Molecular basis and structural insight of vascular K(ATP) channel gating by S-glutathionylation. *Journal of Biological Chemistry*, **2011**, 286, 9298-307	5.4	32
18	Lipopolysaccharides up-regulate Kir6.1/SUR2B channel expression and enhance vascular KATP channel activity via NF-kappaB-dependent signaling. *Journal of Biological Chemistry*, **2010**, 285, 3021-9	5.4	32

17	Oxidative stress inhibits vascular K(ATP) channels by S-glutathionylation. *Journal of Biological Chemistry*, **2010**, 285, 38641-8	5.4	51
16	Down-regulation of 67LR reduces the migratory activity of human glioma cells in vitro. *Brain Research Bulletin*, **2009**, 79, 402-8	3.9	14
15	Reciprocal effects of conditioned medium on cultured glioma cells and neural stem cells. *Journal of Clinical Neuroscience*, **2009**, 16, 1619-23	2.2	7
14	PKA-dependent activation of the vascular smooth muscle isoform of KATP channels by vasoactive intestinal polypeptide and its effect on relaxation of the mesenteric resistance artery. *Biochimica Et Biophysica Acta - Biomembranes*, **2008**, 1778, 88-96	3.8	32
13	cAMP-dependent protein kinase phosphorylation produces interdomain movement in SUR2B leading to activation of the vascular KATP channel. *Journal of Biological Chemistry*, **2008**, 283, 7523-30	5.4	27
12	Down-regulation of Stat3 induces apoptosis of human glioma cell: a potential method to treat brain cancer. *Neurological Research*, **2008**, 30, 297-301	2.7	15
11	An identification of stem cell-resembling gene expression profiles in high-grade astrocytomas. *Molecular Carcinogenesis*, **2008**, 47, 893-903	5	7
10	PKA phosphorylation of SUR2B subunit underscores vascular KATP channel activation by beta-adrenergic receptors. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2007**, 293, R1205-14	3.2	60
9	Arginine vasopressin inhibits Kir6.1/SUR2B channel and constricts the mesenteric artery via V1a receptor and protein kinase C. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2007**, 293, R191-9	3.2	25
8	Functional elements on SIRPalpha IgV domain mediate cell surface binding to CD47. *Journal of Molecular Biology*, **2007**, 365, 680-93	6.5	35
7	bFGF and heparin but not laminin are necessary factors in the mediums that affect NSCs differentiation into cholinergic neurons. *Neurological Research*, **2006**, 28, 87-90	2.7	7
6	Knockdown of Stat3 in C17.2 neural stem cells facilitates the generation of neurons: a possibility of transplantation with a low level of oncogene. *NeuroReport*, **2006**, 17, 235-8	1.7	17
5	Where is the spike generator of the cochlear nerve? Voltage-gated sodium channels in the mouse cochlea. *Journal of Neuroscience*, **2005**, 25, 6857-68	6.6	130
4	Inhibition of AF116909 gene expression enhances the differentiation of neural stem cells. *Neurological Research*, **2005**, 27, 557-61	2.7	6
3	A mathematical investigation of chemotherapy-induced peripheral neuropathy		1
2	Sodium channel Nav1.2-L1342P variant displaying complex biophysical properties renders hyperexcitability of cortical neurons derived from human iPSCs		2
1	Severe deficiency of voltage-gated sodium channel NaV1.2 elevates neuronal excitability in adult mice		1