

# Yang Yang

## List of Publications by Citations

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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	The Na(V)1.7 sodium channel: from molecule to man. <i>Nature Reviews Neuroscience</i> , <b>2013</b> , 14, 49-62	13.5	374
51	Nav1.8 expression is not restricted to nociceptors in mouse peripheral nervous system. <i>Pain</i> , <b>2012</b> , 153, 2017-2030	8	170
50	Where is the spike generator of the cochlear nerve? Voltage-gated sodium channels in the mouse cochlea. <i>Journal of Neuroscience</i> , <b>2005</b> , 25, 6857-68	6.6	130
49	Small-fiber neuropathy Nav1.8 mutation shifts activation to hyperpolarized potentials and increases excitability of dorsal root ganglion neurons. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 14087-97	6.6	84
48	Structural modelling and mutant cycle analysis predict pharmacoresponsiveness of a Na(V)1.7 mutant channel. <i>Nature Communications</i> , <b>2012</b> , 3, 1186	17.4	77
47	PKA phosphorylation of SUR2B subunit underscores vascular KATP channel activation by beta-adrenergic receptors. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2007</b> , 293, R1205-14	3.2	60
46	Pharmacotherapy for Pain in a Family With Inherited Erythromelalgia Guided by Genomic Analysis and Functional Profiling. <i>JAMA Neurology</i> , <b>2016</b> , 73, 659-67	17.2	56
45	The Domain II S4-S5 Linker in Nav1.9: A Missense Mutation Enhances Activation, Impairs Fast Inactivation, and Produces Human Painful Neuropathy. <i>NeuroMolecular Medicine</i> , <b>2015</b> , 17, 158-69	4.6	55
44	Oxidative stress inhibits vascular K(ATP) channels by S-glutathionylation. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 38641-8	5.4	51
43	Nav1.7-A1632G Mutation from a Family with Inherited Erythromelalgia: Enhanced Firing of Dorsal Root Ganglia Neurons Evoked by Thermal Stimuli. <i>Journal of Neuroscience</i> , <b>2016</b> , 36, 7511-22	6.6	43
42	Na1.7 as a Pharmacogenomic Target for Pain: Moving Toward Precision Medicine. <i>Trends in Pharmacological Sciences</i> , <b>2018</b> , 39, 258-275	13.2	37
41	Resilience to Pain: A Peripheral Component Identified Using Induced Pluripotent Stem Cells and Dynamic Clamp. <i>Journal of Neuroscience</i> , <b>2019</b> , 39, 382-392	6.6	37
40	Familial gain-of-function Na1.9 mutation in a painful channelopathy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , <b>2017</b> , 88, 233-240	5.5	36
39	Functional elements on SIRPalpha IgV domain mediate cell surface binding to CD47. <i>Journal of Molecular Biology</i> , <b>2007</b> , 365, 680-93	6.5	35
38	Lipopolysaccharides up-regulate Kir6.1/SUR2B channel expression and enhance vascular KATP channel activity via NF-kappaB-dependent signaling. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 3021-9	5.4	32
37	Molecular basis and structural insight of vascular K(ATP) channel gating by S-glutathionylation. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 9298-307	5.4	32
36	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. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2008</b> , 1778, 88-96	3.8	32

35	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. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 16586-93	6.6	30
34	cAMP-dependent protein kinase phosphorylation produces interdomain movement in SUR2B leading to activation of the vascular KATP channel. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 7523-30	5.4	27
33	Arginine vasopressin inhibits Kir6.1/SUR2B channel and constricts the mesenteric artery via V1a receptor and protein kinase C. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2007</b> , 293, R191-9	3.2	25
32	Network topology of NaV1.7 mutations in sodium channel-related painful disorders. <i>BMC Systems Biology</i> , <b>2017</b> , 11, 28	3.5	24
31	S-glutathionylation of ion channels: insights into the regulation of channel functions, thiol modification crosstalk, and mechanosensing. <i>Antioxidants and Redox Signaling</i> , <b>2014</b> , 20, 937-51	8.4	23
30	Reverse pharmacogenomics: carbamazepine normalizes activation and attenuates thermal hyperexcitability of sensory neurons due to Na 1.7 mutation I234T. <i>British Journal of Pharmacology</i> , <b>2018</b> , 175, 2261-2271	8.6	20
29	Molecular architecture of a sodium channel S6 helix: radial tuning of the voltage-gated sodium channel 1.7 activation gate. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 13741-7	5.4	20
28	A new Nav1.7 mutation in an erythromelalgia patient. <i>Biochemical and Biophysical Research Communications</i> , <b>2013</b> , 432, 99-104	3.4	19
27	Depolarized inactivation overcomes impaired activation to produce DRG neuron hyperexcitability in a Nav1.7 mutation in a patient with distal limb pain. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 12328-40	6.6	18
26	K(ATP) channel action in vascular tone regulation: from genetics to diseases. <i>Acta Physiologica Sinica</i> , <b>2012</b> , 64, 1-13	1.3	18
25	Knockdown of Stat3 in C17.2 neural stem cells facilitates the generation of neurons: a possibility of transplantation with a low level of oncogene. <i>NeuroReport</i> , <b>2006</b> , 17, 235-8	1.7	17
24	Rosiglitazone inhibits vascular KATP channels and coronary vasodilation produced by isoprenaline. <i>British Journal of Pharmacology</i> , <b>2011</b> , 164, 2064-72	8.6	16
23	Prolonged exposure to methylglyoxal causes disruption of vascular KATP channel by mRNA instability. <i>American Journal of Physiology - Cell Physiology</i> , <b>2012</b> , 303, C1045-54	5.4	16
22	Acute exposure of methylglyoxal leads to activation of KATP channels expressed in HEK293 cells. <i>Acta Pharmacologica Sinica</i> , <b>2014</b> , 35, 58-64	8	15
21	Down-regulation of Stat3 induces apoptosis of human glioma cell: a potential method to treat brain cancer. <i>Neurological Research</i> , <b>2008</b> , 30, 297-301	2.7	15
20	Deficiency of anti-inflammatory cytokine IL-4 leads to neural hyperexcitability and aggravates cerebral ischemia-reperfusion injury. <i>Acta Pharmaceutica Sinica B</i> , <b>2020</b> , 10, 1634-1645	15.5	15
19	Down-regulation of 67LR reduces the migratory activity of human glioma cells in vitro. <i>Brain Research Bulletin</i> , <b>2009</b> , 79, 402-8	3.9	14
18	S-Glutathionylation underscores the modulation of the heteromeric Kir4.1-Kir5.1 channel in oxidative stress. <i>Journal of Physiology</i> , <b>2012</b> , 590, 5335-48	3.9	13

17	Impairment of the Vascular KATP Channel Imposes Fatal Susceptibility to Experimental Diabetes Due to Multi-Organ Injuries. <i>Journal of Cellular Physiology</i> , <b>2015</b> , 230, 2915-26	7	10
16	Severe deficiency of the voltage-gated sodium channel Na1.2 elevates neuronal excitability in adult mice. <i>Cell Reports</i> , <b>2021</b> , 36, 109495	10.6	9
15	Reciprocal effects of conditioned medium on cultured glioma cells and neural stem cells. <i>Journal of Clinical Neuroscience</i> , <b>2009</b> , 16, 1619-23	2.2	7
14	An identification of stem cell-resembling gene expression profiles in high-grade astrocytomas. <i>Molecular Carcinogenesis</i> , <b>2008</b> , 47, 893-903	5	7
13	bFGF and heparin but not laminin are necessary factors in the mediums that affect NSCs differentiation into cholinergic neurons. <i>Neurological Research</i> , <b>2006</b> , 28, 87-90	2.7	7
12	Prediction and Optimization of Na1.7 Sodium Channel Inhibitors Based on Machine Learning and Simulated Annealing. <i>Journal of Chemical Information and Modeling</i> , <b>2020</b> , 60, 2739-2753	6.1	6
11	Inhibition of AF116909 gene expression enhances the differentiation of neural stem cells. <i>Neurological Research</i> , <b>2005</b> , 27, 557-61	2.7	6
10	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. <i>Genes, Brain and Behavior</i> , <b>2021</b> , 20, e12725	3.6	6
9	Hyperexcitability and Pharmacological Responsiveness of Cortical Neurons Derived from Human iPSCs Carrying Epilepsy-Associated Sodium Channel Nav1.2-L1342P Genetic Variant. <i>Journal of Neuroscience</i> , <b>2021</b> , 41, 10194-10208	6.6	3
8	Examining Sodium and Potassium Channel Conductances Involved in Hyperexcitability of Chemotherapy-Induced Peripheral Neuropathy: A Mathematical and Cell Culture-Based Study. <i>Frontiers in Computational Neuroscience</i> , <b>2020</b> , 14, 564980	3.5	2
7	Sodium channel Nav1.2-L1342P variant displaying complex biophysical properties renders hyperexcitability of cortical neurons derived from human iPSCs		2
6	Cumulative hydropathic topology of a voltage-gated sodium channel at atomic resolution. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2020</b> , 88, 1319-1328	4.2	2
5	A mathematical investigation of chemotherapy-induced peripheral neuropathy		1
4	Multi-Electrode Array of Sensory Neurons as an In Vitro Platform to Identify the Nociceptive Response to Pharmaceutical Buffer Systems of Injectable Biologics. <i>Pharmaceutical Research</i> , <b>2021</b> , 38, 1179-1186	4.5	1
3	Severe deficiency of voltage-gated sodium channel Nav1.2 elevates neuronal excitability in adult mice		1
2	Hydropathicity-based prediction of pain-causing Nav1.7 variants. <i>BMC Bioinformatics</i> , <b>2021</b> , 22, 212	3.6	0
1	Deficiency of autism-related Scn2a gene in mice disrupts sleep patterns and circadian rhythms.. <i>Neurobiology of Disease</i> , <b>2022</b> , 105690	7.5	0