

Hailin Zhang

List of Publications by Year in descending order

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75
papers

2,965
citations

257450

24
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175258

52
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docs citations

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times ranked

3014
citing authors

#	ARTICLE	IF	CITATIONS
1	PIP2 Activates KCNQ Channels, and Its Hydrolysis Underlies Receptor-Mediated Inhibition of M Currents. <i>Neuron</i> , 2003, 37, 963-975.	8.1	474
2	Activation of inwardly rectifying K ⁺ channels by distinct PtdIns(4,5)P ₂ interactions. <i>Nature Cell Biology</i> , 1999, 1, 183-188.	10.3	444
3	The acute nociceptive signals induced by bradykinin in rat sensory neurons are mediated by inhibition of M-type K ⁺ channels and activation of Ca ²⁺ -activated Cl ⁻ channels. <i>Journal of Clinical Investigation</i> , 2010, 120, 1240-1252.	8.2	264
4	Activation of the Cl ⁻ Channel ANO1 by Localized Calcium Signals in Nociceptive Sensory Neurons Requires Coupling with the IP ₃ Receptor. <i>Science Signaling</i> , 2013, 6, ra73.	3.6	168
5	Control of somatic membrane potential in nociceptive neurons and its implications for peripheral nociceptive transmission. <i>Pain</i> , 2014, 155, 2306-2322.	4.2	108
6	Excellent energy storage properties and stability of NaNbO ₃ Bi(Mg _{0.5} Ta _{0.5})O ₃ ceramics by introducing (Bi _{0.5} Na _{0.5}) _{0.7} Sr _{0.3} TiO ₃ . <i>Journal of Materials Chemistry A</i> , 2021, 9, 4789-4799.	10.3	92
7	Matrine is a novel inhibitor of the TMEM16A chloride channel with antilung adenocarcinoma effects. <i>Journal of Cellular Physiology</i> , 2019, 234, 8698-8708.	4.1	80
8	Characterization of the effects of Cl ⁻ channel modulators on TMEM16A and bestrophin-1 Ca ²⁺ -activated Cl ⁻ channels. <i>Pflügers Archiv European Journal of Physiology</i> , 2015, 467, 1417-1430.	2.8	78
9	Activation of Ca ²⁺ -activated Cl ⁻ channel ANO1 by localized Ca ²⁺ signals. <i>Journal of Physiology</i> , 2016, 594, 19-30.	2.9	59
10	M-type K ⁺ channels in peripheral nociceptive pathways. <i>British Journal of Pharmacology</i> , 2018, 175, 2158-2172.	5.4	53
11	Design, synthesis and biological activity of pyrazolo[1,5-a]pyrimidin-7(4H)-ones as novel Kv7/KCNQ potassium channel activators. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 934-943.	5.5	45
12	Ag ₂ O@Bi ₂ O ₃ composites: synthesis, characterization and high efficient photocatalytic activities. <i>CrystEngComm</i> , 2012, 14, 5705.	2.6	44
13	Arctigenin, a novel TMEM16A inhibitor for lung adenocarcinoma therapy. <i>Pharmacological Research</i> , 2020, 155, 104721.	7.1	43
14	Ginsenoside Rb1, a novel activator of the TMEM16A chloride channel, augments the contraction of guinea pig ileum. <i>Pflügers Archiv European Journal of Physiology</i> , 2017, 469, 681-692.	2.8	42
15	Conditional knockout of Fgf13 in murine hearts increases arrhythmia susceptibility and reveals novel ion channel modulatory roles. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 104, 63-74.	1.9	39
16	Gating of G protein-sensitive inwardly rectifying K ⁺ channels through phosphatidylinositol 4,5-bisphosphate. <i>Journal of Physiology</i> , 1999, 520, 630-630.	2.9	33
17	FGF13 modulates the gating properties of the cardiac sodium channel Na _v 1.5 in an isoform-specific manner. <i>Channels</i> , 2016, 10, 410-420.	2.8	33
18	Procyanidin B1, a novel and specific inhibitor of Kv10.1 channel, suppresses the evolution of hepatoma. <i>Biochemical Pharmacology</i> , 2020, 178, 114089.	4.4	33

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19	Selective targeting of M ^v type potassium K _v 7.4 channels demonstrates their key role in the regulation of dopaminergic neuronal excitability and depression-like behaviour. <i>British Journal of Pharmacology</i> , 2017, 174, 4277-4294.	5.4	32
20	Transcriptional Regulation of Voltage-Gated Sodium Channels Contributes to GM-CSF-Induced Pain. <i>Journal of Neuroscience</i> , 2019, 39, 5222-5233.	3.6	29
21	Tannic acid modulates excitability of sensory neurons and nociceptive behavior and the Ionic mechanism. <i>European Journal of Pharmacology</i> , 2015, 764, 633-642.	3.5	28
22	Adjusting the Energy-Storage Characteristics of 0.95NaNbO ₃ ·0.05Bi(Mg _{0.5} Sn _{0.5})O ₃ Ceramics by Doping Linear Perovskite Materials. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 25609-25619.	8.0	28
23	Tetrandrine, a novel inhibitor of ether-1 (Eag1), targeted to cervical cancer development. <i>Journal of Cellular Physiology</i> , 2019, 234, 7161-7173.	4.1	27
24	Identification of Resveratrol, an Herbal Compound, as an Activator of the Calcium-Activated Chloride Channel, TMEM16A. <i>Journal of Membrane Biology</i> , 2017, 250, 483-492.	2.1	26
25	Repressor element 1 silencing transcription factor drives the development of chronic pain states. <i>Pain</i> , 2019, 160, 2398-2408.	4.2	26
26	Voltage-gated sodium channels were differentially expressed in human normal prostate, benign prostatic hyperplasia and prostate cancer cells. <i>Oncology Letters</i> , 2014, 8, 345-350.	1.8	25
27	Identification of the Conformational transition pathway in PIP2 Opening Kir Channels. <i>Scientific Reports</i> , 2015, 5, 11289.	3.3	24
28	Activation of parabrachial nucleus - ventral tegmental area pathway underlies the comorbid depression in chronic neuropathic pain in mice. <i>Cell Reports</i> , 2021, 37, 109936.	6.4	24
29	GABAB receptors inhibit low-voltage activated and high-voltage activated Ca ²⁺ channels in sensory neurons via distinct mechanisms. <i>Biochemical and Biophysical Research Communications</i> , 2015, 465, 188-193.	2.1	23
30	Inducible <i>Fgf13</i> ablation enhances caveolae-mediated cardioprotection during cardiac pressure overload. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4010-E4019.	7.1	22
31	Entering the spotlight: Chitosan oligosaccharides as novel activators of CaCCs/TMEM16A. <i>Pharmacological Research</i> , 2019, 146, 104323.	7.1	22
32	Photothermal Modulation of Depression-Related Ion Channel Function through Conjugated Polymer Nanoparticles. <i>Advanced Functional Materials</i> , 2021, 31, 2010757.	14.9	22
33	Multistage pH-responsive codelivery liposomal platform for synergistic cancer therapy. <i>Journal of Nanobiotechnology</i> , 2022, 20, 177.	9.1	22
34	Pre-treatment of a single high-dose of atorvastatin provided cardioprotection in different ischaemia/reperfusion models via activating mitochondrial KATP channel. <i>European Journal of Pharmacology</i> , 2015, 751, 89-98.	3.5	21
35	Electrophysiological and pharmacological characterization of a novel and potent neuronal Kv7 channel opener SCR2682 for antiepilepsy. <i>FASEB Journal</i> , 2019, 33, 9154-9166.	0.5	21
36	Volume-regulated Cl ⁻ current: contributions of distinct Cl ⁻ channels and localized Ca ²⁺ signals. <i>American Journal of Physiology - Cell Physiology</i> , 2019, 317, C466-C480.	4.6	20

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37	Carbon monoxide inhibits inward rectifier potassium channels in cardiomyocytes. <i>Nature Communications</i> , 2014, 5, 4676.	12.8	19
38	A systematic data acquisition and mining strategy for chemical profiling of <i>Aster tataricus</i> rhizoma (Ziwan) by UHPLC-Q-TOF-MS and the corresponding anti-depressive activity screening. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 154, 216-226.	2.8	19
39	Depolarization Increases Phosphatidylinositol (PI) 4,5-Bisphosphate Level and KCNQ Currents through PI 4-Kinase Mechanisms. <i>Journal of Biological Chemistry</i> , 2010, 285, 9402-9409.	3.4	18
40	Activation of KCNQ2/3 Potassium Channels by Novel Pyrazolo[1,5-a]pyrimidin-7(4H)-One Derivatives. <i>Pharmacology</i> , 2011, 87, 297-310.	2.2	18
41	Selective activation of vascular $K_{v7.4}/K_{v7.5}$ channels by fasudil contributes to its vasorelaxant effect. <i>British Journal of Pharmacology</i> , 2016, 173, 3480-3491.	5.4	18
42	Role of GABA _B receptors and p38MAPK/NF- κ B pathway in paclitaxel-induced apoptosis of hippocampal neurons. <i>Pharmaceutical Biology</i> , 2017, 55, 2188-2195.	2.9	18
43	Redox-Dependent Modulation of T-Type Ca^{2+} Channels in Sensory Neurons Contributes to Acute Anti-Nociceptive Effect of Substance P. <i>Antioxidants and Redox Signaling</i> , 2016, 25, 233-251.	5.4	17
44	Fibroblast growth factor 13 stabilizes microtubules to promote Na ⁺ channel function in nociceptive DRG neurons and modulates inflammatory pain. <i>Journal of Advanced Research</i> , 2021, 31, 97-111.	9.5	17
45	Kv7.4 Channel Contribute to Projection-Specific Auto-Inhibition of Dopamine Neurons in the Ventral Tegmental Area. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 557.	3.7	15
46	TMEM16A-inhibitor loaded pH-responsive nanoparticles: A novel dual-targeting antitumor therapy for lung adenocarcinoma. <i>Biochemical Pharmacology</i> , 2020, 178, 114062.	4.4	15
47	Molecular Mechanisms and Structural Basis of Retigabine Analogues in Regulating KCNQ2 Channel. <i>Journal of Membrane Biology</i> , 2020, 253, 167-181.	2.1	15
48	Inflammatory mediator bradykinin increases population of sensory neurons expressing functional T-type Ca^{2+} channels. <i>Biochemical and Biophysical Research Communications</i> , 2016, 473, 396-402.	2.1	14
49	Phase Structure, Raman Spectra, Microstructure, and Dielectric Properties of (K _{0.5})TjETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 262	2.2	14
50	Zafirlukast inhibits the growth of lung adenocarcinoma via inhibiting TMEM16A channel activity. <i>Journal of Biological Chemistry</i> , 2022, 298, 101731.	3.4	14
51	Selective Modulation of K ⁺ Channel Kv7.4 Significantly Affects the Excitability of DRN 5-HT Neurons. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 405.	3.7	13
52	Suppression of KV7/KCNQ potassium channel enhances neuronal differentiation of PC12 cells. <i>Neuroscience</i> , 2016, 333, 356-367.	2.3	12
53	Good electrical performances and impedance analysis of (1 $\hat{\wedge}$ $\hat{\wedge}$ $\hat{\wedge}$)KNN $\hat{\wedge}$ $\hat{\wedge}$ $\hat{\wedge}$ xBMM lead-free ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 4538-4546.	2.2	11
54	Activation of TMEM16A by natural product canthaxanthin promotes gastrointestinal contraction. <i>FASEB Journal</i> , 2020, 34, 13430-13444.	0.5	11

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55	Piezo2 channel in nodose ganglia neurons is essential in controlling hypertension in a pathway regulated directly by Nedd4-2. <i>Pharmacological Research</i> , 2021, 164, 105391.	7.1	10
56	Neuropathic Injury-Induced Plasticity of GABAergic System in Peripheral Sensory Ganglia. <i>Frontiers in Pharmacology</i> , 2021, 12, 702218.	3.5	10
57	Smooth muscle 22 alpha protein inhibits VSMC foam cell formation by supporting normal LXR β signaling, ameliorating atherosclerosis. <i>Cell Death and Disease</i> , 2021, 12, 982.	6.3	9
58	Lack of Negatively Charged Residues at the External Mouth of Kir2.2 Channels Enable the Voltage-Dependent Block by External Mg $^{2+}$. <i>PLoS ONE</i> , 2014, 9, e111372.	2.5	8
59	Structural Basis for Differences in Dynamics Induced by Leu Versus Ile Residues in the CD Loop of Kir Channels. <i>Molecular Neurobiology</i> , 2016, 53, 5948-5961.	4.0	7
60	Fusion of Ssm6a with a protein scaffold retains selectivity on Na $^{+}$ and improves its therapeutic potential against chronic pain. <i>Chemical Biology and Drug Design</i> , 2017, 89, 825-833.	3.2	7
61	Transient Receptor Potential Cation Channel Subfamily Vanilloid 4 and 3 in the Inner Ear Protect Hearing in Mice. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 296.	2.9	7
62	LRRCA8A and ANO1 contribute to serum-induced VRAC in a Ca $^{2+}$ -dependent manners. <i>Journal of Pharmacological Sciences</i> , 2020, 143, 176-181.	2.5	7
63	Delineating an extracellular redox-sensitive module in T-type Ca $^{2+}$ channels. <i>Journal of Biological Chemistry</i> , 2020, 295, 6177-6186.	3.4	6
64	Three pairs of weak interactions precisely regulate the G-loop gate of Kir2.1 channel. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 1929-1937.	2.6	5
65	Phase structure and microwave dielectric properties of 0.85(0.74CaTiO $_3$ •0.26SmAlO $_3$)•0.15Ca $_1.15$ Sm $_0.85$ Al $_0.85$ Ti $_0.15$ O $_4$ composite ceramics prepared by reaction-sintering process. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 8863-8871.	2.2	5
66	Sensorineural Hearing Loss and Mitochondrial Apoptosis of Cochlear Spiral Ganglion Neurons in Fibroblast Growth Factor 13 Knockout Mice. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 658586.	3.7	5
67	Sintering characteristic, structure, microwave dielectric properties, and compatibility with Ag of novel 3MgO-B $_2$ O $_3$ -x wt% BaCu(B $_2$ O $_5$ -y wt% H $_3$ BO $_3$) ceramics. <i>Journal of Asian Ceramic Societies</i> , 2022, 10, 346-355.	2.3	4
68	Protein disulfide isomerase modulation of TRPV1 controls heat hyperalgesia in chronic pain. <i>Cell Reports</i> , 2022, 39, 110625.	6.4	4
69	Two Ca $^{2+}$ -Binding Sites Cooperatively Couple Together in TMEM16A Channel. <i>Journal of Membrane Biology</i> , 2016, 249, 57-63.	2.1	3
70	Adjustable microwave dielectric properties of ZnO•TiO $_2$ •ZrO $_2$ •Nb $_2$ O $_5$ composite ceramics via controlling the raw ZrO $_2$ content and sintering temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 12055-12060.	2.2	3
71	The Role of Hyperthermia in Methamphetamine-Induced Depression-Like Behaviors: Protective Effects of Coral Calcium Hydride. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 808807.	2.9	3
72	Inhibition of M/Kv7 Currents Contributes to Chloroquine-Induced Itch in Mice. <i>Frontiers in Molecular Neuroscience</i> , 2020, 13, 105.	2.9	2

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73	Opposing roles of E3 ligases TRIM23 and TRIM21 in regulation of ion channel ANO1 protein levels. <i>Journal of Biological Chemistry</i> , 2021, 296, 100738.	3.4	2
74	Exploring in vivo metabolism and excretion of QO-58L using ultra-high-performance liquid chromatography coupled with tandem mass spectrometry. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 117, 379-391.	4.0	1
75	GW24-e1806...Atorvastatin attenuates oxygen-glucose deprivation/recovery-induced mitochondrial dysfunction in neonatal rat cardiac myocytes. <i>Heart</i> , 2013, 99, A93.3-A94.	2.9	0