

Jinwei Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,885
citations

185998

28
h-index

189595

50
g-index

80
all docs

80
docs citations

80
times ranked

3453
citing authors

#	ARTICLE	IF	CITATIONS
1	Inflammation-dependent cerebrospinal fluid hypersecretion by the choroid plexus epithelium in posthemorrhagic hydrocephalus. <i>Nature Medicine</i> , 2017, 23, 997-1003.	15.2	256
2	The WNK-SPAK/OSR1 pathway: Master regulator of cation-chloride cotransporters. <i>Science Signaling</i> , 2014, 7, re3.	1.6	218
3	Binding to serine 65-phosphorylated ubiquitin primes Parkin for optimal PINK -dependent phosphorylation and activation. <i>EMBO Reports</i> , 2015, 16, 939-954.	2.0	183
4	The WNK-regulated SPAK/OSR1 kinases directly phosphorylate and inhibit the K^+Cl^- co-transporters. <i>Biochemical Journal</i> , 2014, 458, 559-573.	1.7	174
5	WNK Kinase Signaling in Ion Homeostasis and Human Disease. <i>Cell Metabolism</i> , 2017, 25, 285-299.	7.2	160
6	GSK2578215A; A potent and highly selective 2-arylmethoxy-5-substituent-N-arylbenzamide LRRK2 kinase inhibitor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 5625-5629.	1.0	138
7	WNK1-regulated inhibitory phosphorylation of the KCC2 cotransporter maintains the depolarizing action of GABA in immature neurons. <i>Science Signaling</i> , 2015, 8, ra65.	1.6	133
8	Brain Penetrant LRRK2 Inhibitor. <i>ACS Medicinal Chemistry Letters</i> , 2012, 3, 658-662.	1.3	119
9	GABAA receptor dependent synaptic inhibition rapidly tunes KCC2 activity via the Cl^- -sensitive WNK1 kinase. <i>Nature Communications</i> , 2017, 8, 1776.	5.8	81
10	Characterization of TAE684 as a potent LRRK2 kinase inhibitor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 1864-1869.	1.0	80
11	Characterisation of the Cullin β mutation that causes a severe form of familial hypertension and hyperkalaemia. <i>EMBO Molecular Medicine</i> , 2015, 7, 1285-1306.	3.3	79
12	Purification and Characterization of a Cold-Adapted α -Amylase Produced by <i>Nocardiosis</i> sp. 7326 Isolated from Prydz Bay, Antarctic. <i>Marine Biotechnology</i> , 2008, 10, 75-82.	1.1	70
13	Kinase inhibitors arrest neurodegeneration in cell and <i>C. elegans</i> models of LRRK2 toxicity. <i>Human Molecular Genetics</i> , 2013, 22, 328-344.	1.4	70
14	Modulation of brain cation- Cl^- cotransport via the SPAK kinase inhibitor ZT-1a. <i>Nature Communications</i> , 2020, 11, 78.	5.8	69
15	Molecular Cloning and Expression of a Cold-Adapted Lipase Gene from an Antarctic Deep Sea Psychrotrophic Bacterium <i>Pseudomonas</i> sp. 7323. <i>Marine Biotechnology</i> , 2008, 10, 612-621.	1.1	66
16	Impaired regulation of KCC2 phosphorylation leads to neuronal network dysfunction and neurodevelopmental pathology. <i>Science Signaling</i> , 2019, 12, .	1.6	66
17	Mutations in Chromatin Modifier and Ephrin Signaling Genes in Vein of Galen Malformation. <i>Neuron</i> , 2019, 101, 429-443.e4.	3.8	56
18	Developmentally regulated KCC2 phosphorylation is essential for dynamic GABA-mediated inhibition and survival. <i>Science Signaling</i> , 2019, 12, .	1.6	55

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19	Cloning, expression, and characterization of a cold-adapted lipase gene from an antarctic deep-sea psychrotrophic bacterium, <i>Psychrobacter</i> sp 7195. <i>Journal of Microbiology and Biotechnology</i> , 2007, 17, 604-10.	0.9	52
20	Discovery of a Pyrrolopyrimidine (JH-II-127), a Highly Potent, Selective, and Brain Penetrant LRRK2 Inhibitor. <i>ACS Medicinal Chemistry Letters</i> , 2015, 6, 584-589.	1.3	46
21	Peripheral motor neuropathy is associated with defective kinase regulation of the KCC3 cotransporter. <i>Science Signaling</i> , 2016, 9, ra77.	1.6	46
22	Structural determinants for ERK5 (MAPK7) and leucine rich repeat kinase 2 activities of benzo[e]pyrimido-[5,4-b]diazepine-6(11H)-ones. <i>European Journal of Medicinal Chemistry</i> , 2013, 70, 758-767.	2.6	45
23	Oxytocin administration in neonates shapes hippocampal circuitry and restores social behavior in a mouse model of autism. <i>Molecular Psychiatry</i> , 2021, 26, 7582-7595.	4.1	45
24	Structural and Atropisomeric Factors Governing the Selectivity of Pyrimido-benzodiazepinones as Inhibitors of Kinases and Bromodomains. <i>ACS Chemical Biology</i> , 2018, 13, 2438-2448.	1.6	44
25	Inhibition of the kinase WNK1/HSN2 ameliorates neuropathic pain by restoring GABA inhibition. <i>Science Signaling</i> , 2016, 9, ra32.	1.6	43
26	Functional kinomics establishes a critical node of volume-sensitive cation-Cl ⁻ cotransporter regulation in the mammalian brain. <i>Scientific Reports</i> , 2016, 6, 35986.	1.6	38
27	The WNK-SPAK/OSR1 Kinases and the Cation-Chloride Cotransporters as Therapeutic Targets for Neurological Diseases. , 2019, 10, 626.		35
28	Critical role of the SPAK protein kinase CCT domain in controlling blood pressure. <i>Human Molecular Genetics</i> , 2015, 24, 4545-4558.	1.4	34
29	Enhanced Electricity Production by Use of Reconstituted Artificial Consortia of Estuarine Bacteria Grown as Biofilms. <i>Environmental Science & Technology</i> , 2012, 46, 2984-2992.	4.6	31
30	Crossing the Chloride Channel: The Current and Potential Therapeutic Value of the Neuronal K ⁺ -Cl ⁻ Cotransporter KCC2. <i>BioMed Research International</i> , 2019, 2019, 1-12.	0.9	27
31	MALDI-TOF Mass Spectrometry Discriminates Known Species and Marine Environmental Isolates of <i>Pseudoalteromonas</i> . <i>Frontiers in Microbiology</i> , 2016, 7, 104.	1.5	23
32	Regulatory control of the Na ⁺ -Cl ⁻ co-transporter NCC and its therapeutic potential for hypertension. <i>Acta Pharmaceutica Sinica B</i> , 2021, 11, 1117-1128.	5.7	23
33	Development of an enzyme-linked immunosorbent assay for detection of cellular and in vivo LRRK2 S935 phosphorylation. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013, 76, 49-58.	1.4	21
34	The adipocyte hormone leptin sets the emergence of hippocampal inhibition in mice. <i>ELife</i> , 2018, 7, .	2.8	20
35	Psychrotrophic amylolytic bacteria from deep sea sediment of Prydz Bay, Antarctic: diversity and characterization of amylases. <i>World Journal of Microbiology and Biotechnology</i> , 2007, 23, 1551-1557.	1.7	19
36	WNK-SPAK/OSR1-NCC kinase signaling pathway as a novel target for the treatment of salt-sensitive hypertension. <i>Acta Pharmacologica Sinica</i> , 2021, 42, 508-517.	2.8	19

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37	Leveraging unique structural characteristics of WNK kinases to achieve therapeutic inhibition. <i>Science Signaling</i> , 2016, 9, e3.	1.6	17
38	Enhanced eicosapentaenoic acid production by a new deep-sea marine bacterium <i>Shewanella electrodiphila</i> MAR441T. <i>PLoS ONE</i> , 2017, 12, e0188081.	1.1	17
39	Role of SPAK/NKCC1 signaling cascade in the choroid plexus blood-CSF barrier damage after stroke. <i>Journal of Neuroinflammation</i> , 2022, 19, 91.	3.1	15
40	Pharmacological targeting of SPAK kinase in disorders of impaired epithelial transport. <i>Expert Opinion on Therapeutic Targets</i> , 2017, 21, 795-804.	1.5	14
41	Staurosporine and NEM mainly impair WNK-SPAK/OSR1 mediated phosphorylation of KCC2 and NKCC1. <i>PLoS ONE</i> , 2020, 15, e0232967.	1.1	14
42	Targeting the WNK-SPAK/OSR1 Pathway and Cation-Chloride Cotransporters for the Therapy of Stroke. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1232.	1.8	13
43	<i>Shewanella electrodiphila</i> sp. nov., a psychrotolerant bacterium isolated from Mid-Atlantic Ridge deep-sea sediments. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2015, 65, 2882-2889.	0.8	12
44	Role of KLHL3 and dietary K ⁺ in regulating KS-WNK1 expression. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 320, F734-F747.	1.3	11
45	Molecular cloning and expression of an extracellular Î±-amylase gene from an Antarctic deep sea psychrotolerant <i>Pseudomonas stutzeri</i> strain 7193. <i>World Journal of Microbiology and Biotechnology</i> , 2011, 27, 841-850.	1.7	8
46	Smoothed receptor Signaling regulates the developmental shift of GABA polarity in rat somatosensory cortex. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	8
47	Role of the Cation-Chloride-Cotransporters in Cardiovascular Disease. <i>Cells</i> , 2020, 9, 2293.	1.8	7
48	The Therapeutic Potential of Neuronal K-Cl Co-Transporter KCC2 in Huntington's Disease and Its Comorbidities. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9142.	1.8	6
49	Furosemide prevents membrane KCC2 downregulation during convulsant stimulation in the hippocampus. <i>IBRO Neuroscience Reports</i> , 2022, 12, 355-365.	0.7	6
50	New drugs on the horizon for cerebral edema: what's in the clinical development pipeline?. <i>Expert Opinion on Investigational Drugs</i> , 2020, 29, 1099-1105.	1.9	5
51	NF-Î±B Signaling-Mediated Activation of WNK-SPAK-NKCC1 Cascade in Worsened Stroke Outcomes of Ang II-Hypertensive Mice. <i>Stroke</i> , 2022, 53, 1720-1734.	1.0	5
52	Rare pathogenic variants in WNK3 cause X-linked intellectual disability. <i>Genetics in Medicine</i> , 2022, 24, 1941-1951.	1.1	5
53	Editorial: Marine Microbial-Derived Molecules and Their Potential Medical and Cosmetic Applications. <i>Frontiers in Microbiology</i> , 2021, 12, 706152.	1.5	4
54	Role of the cation-chloride-cotransporters in the circadian system. <i>Asian Journal of Pharmaceutical Sciences</i> , 2021, 16, 589-597.	4.3	4

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55	<i>Porphyrromonas Gingivalis</i> in the Pathogenesis of Alzheimer's Disease and Its Therapeutic Target. <i>Journal of Exploratory Research in Pharmacology</i> , 2022, 7, 45-53.	0.2	4
56	Sequence and structural variations determining the recruitment of WNK kinases to the KLHL3 E3 ligase. <i>Biochemical Journal</i> , 2022, 479, 661-675.	1.7	4
57	Molecular Mechanism of Inhibiting WNK Binding to OSR1 by Targeting the Allosteric Pocket of the OSR1-CCT Domain with Potential Antihypertensive Inhibitors: An In Silico Study. <i>Journal of Physical Chemistry B</i> , 2021, 125, 9115-9129.	1.2	3
58	The Chloride Homeostasis of CA3 Hippocampal Neurons Is Not Altered in Fully Symptomatic <i>Mepc2</i> -null Mice. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 724976.	1.8	2
59	Protein Kinase C-Mediated Hyperphosphorylation and Lateralization of Connexin 43 Are Involved in Autoimmune Myocarditis-Induced Prolongation of QRS Complex. <i>Frontiers in Physiology</i> , 2022, 13, 815301.	1.3	2
60	166 TLR-4-Regulated Cerebrospinal Fluid Hypersecretion in Post-Hemorrhagic Hydrocephalus. <i>Neurosurgery</i> , 2017, 64, 242.	0.6	1
61	LRRK2 Signalling Pathways in Parkinson's Disease. <i>Archives in Neurology & Neuroscience</i> , 2019, 2, .	0.1	1
62	<i>Shewanella dovmearinesis</i> sp. nov., a psychrotolerant bacterium isolated from Mid-Atlantic Ridge deep-sea sediments. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2014, , .	0.8	0
63	Ronald R. Tasker Young Investigator Award 165 Promoting Endogenous GABAergic Analgesia via Kinase Modulation of Neuronal Ion Plasticity. <i>Neurosurgery</i> , 2014, 61, 214.	0.6	0
64	Abstract P70: SPAK/OSR1 Signaling as a Novel Target for Post-Stroke Oxidative Stress Brain Injury. <i>Stroke</i> , 2021, 52, .	1.0	0
65	SPAK/OSR1 kinases directly phosphorylate the K ⁺ + Cl ⁻ cotransporters (1109.7). <i>FASEB Journal</i> , 2014, 28, 1109.7.	0.2	0
66	Bone loss in KLHL3 knock-in mice characterized by a pseudohypoadosteronism type II-like phenotype is mediated by renal PTH resistance. <i>Bone Abstracts</i> , 0, , .	0.0	0
67	Bone loss in KLHL3 knock-in mice characterized by a pseudohypoadosteronism type II-like phenotype is mediated by renal PTH resistance. <i>Bone Abstracts</i> , 0, , .	0.0	0
68	Abstract P198: WNK-SPAK-NKCC1 Cascade Activation Contributes to Worsened Brain Damage in Mice With Hypertension Co-Morbidity after Ischemic Stroke. <i>Hypertension</i> , 2018, 72, .	1.3	0
69	Neuroprotective therapy both for acute ischemic stroke and ALS. <i>Journal of Neurology & Neurophysiology</i> , 2019, 10, .	0.1	0
70	374 Multi-omic Analysis Identifies a SPAK Kinase-regulated Ensemble of Choroid Plexus Ion Transport Proteins Relevant for Post-infectious Hydrocephalus. <i>Neurosurgery</i> , 2022, 68, 89-89.	0.6	0