

Xiao-Liang Wang

List of Publications by Year in descending order

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102
papers

2,654
citations

159573

30
h-index

233409

45
g-index

106
all docs

106
docs citations

106
times ranked

2814
citing authors

#	ARTICLE	IF	CITATIONS
1	Dl-3-n-Butylphthalide (NBP): A Promising Therapeutic Agent for Ischemic Stroke. <i>CNS and Neurological Disorders - Drug Targets</i> , 2018, 17, 338-347.	1.4	145
2	L-3-n-Butylphthalide Improves Cognitive Impairment and Reduces Amyloid- β in a Transgenic Model of Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2010, 30, 8180-8189.	3.6	122
3	High throughput screening technologies for ion channels. <i>Acta Pharmacologica Sinica</i> , 2016, 37, 34-43.	6.1	102
4	L-3-n-Butylphthalide Improves Cognitive Impairment Induced by Chronic Cerebral Hypoperfusion in Rats. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007, 321, 902-910.	2.5	96
5	2-(1-Hydroxypentyl)-benzoate Increases Cerebral Blood Flow and Reduces Infarct Volume in Rats Model of Transient Focal Cerebral Ischemia. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 317, 973-979.	2.5	84
6	Effects of chiral 3-n-butylphthalide on apoptosis induced by transient focal cerebral ischemia in rats. <i>Acta Pharmacologica Sinica</i> , 2003, 24, 796-804.	6.1	76
7	L-3-n-Butylphthalide ameliorates β -amyloid-induced neuronal toxicity in cultured neuronal cells. <i>Neuroscience Letters</i> , 2008, 434, 224-229.	2.1	73
8	Antiplatelet and Antithrombotic Activity of L-3-n-butylphthalide in Rats. <i>Journal of Cardiovascular Pharmacology</i> , 2004, 43, 876-881.	1.9	71
9	L-3-n-butylphthalide Promotes Neurogenesis and Neuroplasticity in Cerebral Ischemic Rats. <i>CNS Neuroscience and Therapeutics</i> , 2015, 21, 733-741.	3.9	66
10	L-3-n-butylphthalide Reduces Tau Phosphorylation and Improves Cognitive Deficits in A β PP/PS1-Alzheimer's Transgenic Mice. <i>Journal of Alzheimer's Disease</i> , 2012, 29, 379-391.	2.6	64
11	L-3-n-butylphthalide improves cognitive impairment induced by intracerebroventricular infusion of amyloid- β peptide in rats. <i>European Journal of Pharmacology</i> , 2009, 621, 38-45.	3.5	56
12	From stroke to neurodegenerative diseases: The multi-target neuroprotective effects of 3-n-butylphthalide and its derivatives. <i>Pharmacological Research</i> , 2018, 135, 201-211.	7.1	49
13	L-3-n-Butylphthalide attenuates β -amyloid-induced toxicity in neuroblastoma SH-SY5Y cells through regulating mitochondrion-mediated apoptosis and MAPK signaling. <i>Journal of Asian Natural Products Research</i> , 2014, 16, 854-864.	1.4	45
14	Translational Study of Alzheimer's Disease (AD) Biomarkers from Brain Tissues in A β PP/PS1 Mice and Serum of AD Patients. <i>Journal of Alzheimer's Disease</i> , 2015, 45, 269-282.	2.6	44
15	Polycyclic Polyprenylated Acylphloroglucinol Congeners from <i>Hypericum scabrum</i> . <i>Journal of Natural Products</i> , 2016, 79, 1538-1547.	3.0	44
16	Investigation of miscellaneous hERG inhibition in large diverse compound collection using automated patch-clamp assay. <i>Acta Pharmacologica Sinica</i> , 2016, 37, 111-123.	6.1	44
17	Inhibition of Src tyrosine kinase activity by squamosamide derivative FLZ attenuates neuroinflammation in both in vivo and in vitro Parkinson's disease models. <i>Neuropharmacology</i> , 2013, 75, 201-212.	4.1	43
18	L-3-n-Butylphthalide Rescues Hippocampal Synaptic Failure and Attenuates Neuropathology in Aged APP/PS1 Mouse Model of Alzheimer's Disease. <i>CNS Neuroscience and Therapeutics</i> , 2016, 22, 979-987.	3.9	43

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19	Messenger RNA and protein expression analysis of voltage-gated potassium channels in the brain of A β 25-35-treated rats. <i>Journal of Neuroscience Research</i> , 2004, 77, 94-99.	2.9	39
20	Voltage-dependent potassium channels are involved in glutamate-induced apoptosis of rat hippocampal neurons. <i>Neuroscience Letters</i> , 2006, 398, 22-27.	2.1	38
21	L-3-n-Butylphthalide Regulates Proliferation, Migration, and Differentiation of Neural Stem Cell In Vitro and Promotes Neurogenesis in APP/PS1 Mouse Model by Regulating BDNF/TrkB/CREB/Akt Pathway. <i>Neurotoxicity Research</i> , 2018, 34, 477-488.	2.7	38
22	Novel neuroprotectant chiral 3-n-butylphthalide inhibits tandem-pore-domain potassium channel TREK-1. <i>Acta Pharmacologica Sinica</i> , 2011, 32, 182-187.	6.1	36
23	The Protective Effects of <i>Gardenia jasminoides</i> (Fructus Gardenia) on Amyloid- β 2-Induced Mouse Cognitive Impairment and Neurotoxicity. <i>The American Journal of Chinese Medicine</i> , 2018, 46, 389-405.	3.8	36
24	Dammarane-type saponins from the leaves of <i>Panax notoginseng</i> and their neuroprotective effects on damaged SH-SY5Y cells. <i>Phytochemistry</i> , 2018, 145, 10-17.	2.9	36
25	Role of potassium channels in A β 1-40-activated apoptotic pathway in cultured cortical neurons. <i>Journal of Neuroscience Research</i> , 2006, 84, 1475-1484.	2.9	35
26	Galantamine blocks delayed rectifier, but not transient outward potassium current in rat dissociated hippocampal pyramidal neurons. <i>Neuroscience Letters</i> , 2003, 336, 37-40.	2.1	34
27	Enhanced expressions of arachidonic acid-sensitive tandem-pore domain potassium channels in rat experimental acute cerebral ischemia. <i>Biochemical and Biophysical Research Communications</i> , 2005, 327, 1163-1169.	2.1	33
28	Alterations in the expression of lipid and mechano-gated two-pore domain potassium channel genes in rat brain following chronic cerebral ischemia. <i>Molecular Brain Research</i> , 2004, 120, 205-209.	2.3	31
29	Long-term treatment of l-3-n-butylphthalide attenuated neurodegenerative changes in aged rats. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2009, 379, 565-574.	3.0	31
30	Potassium 2-(1-hydroxypentyl)-benzoate improves learning and memory deficits in chronic cerebral hypoperfused rats. <i>Neuroscience Letters</i> , 2013, 541, 155-160.	2.1	31
31	Three pairs of alkaloid enantiomers from the root of <i>Isatis indigotica</i> . <i>Acta Pharmaceutica Sinica B</i> , 2016, 6, 141-147.	12.0	29
32	Parishin C's prevention of A β 1-42-induced inhibition of long-term potentiation is related to NMDA receptors. <i>Acta Pharmaceutica Sinica B</i> , 2016, 6, 189-197.	12.0	29
33	Bioactive Benzofuran Derivatives from Cortex Mori Radicis, and Their Neuroprotective and Analgesic Activities Mediated by mGluR1. <i>Molecules</i> , 2017, 22, 236.	3.8	29
34	Src Inhibition Attenuates Neuroinflammation and Protects Dopaminergic Neurons in Parkinson's Disease Models. <i>Frontiers in Neuroscience</i> , 2020, 14, 45.	2.8	29
35	L-3-n-Butylphthalide attenuates neuroinflammatory responses by downregulating JNK activation and upregulating Heme oxygenase-1 in lipopolysaccharide-treated mice. <i>Journal of Asian Natural Products Research</i> , 2016, 18, 289-302.	1.4	28
36	The pathological roles of NDRG2 in Alzheimer's disease, a study using animal models and APPwt-overexpressed cells. <i>CNS Neuroscience and Therapeutics</i> , 2017, 23, 667-679.	3.9	28

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37	Donepezil attenuated oxygen-glucose deprivation insult by blocking Kv2.1 potassium channels. <i>European Journal of Pharmacology</i> , 2011, 657, 76-83.	3.5	26
38	l-3-n-butylphthalide alleviates hydrogen peroxide-induced apoptosis by PKC pathway in human neuroblastoma SK-N-SH cells. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2011, 383, 91-99.	3.0	26
39	Rivastigmine blocks voltage-activated K ⁺ currents in dissociated rat hippocampal neurons. <i>British Journal of Pharmacology</i> , 2003, 140, 907-912.	5.4	25
40	l-3-n-Butylphthalide regulates amyloid precursor protein processing by PKC and MAPK pathways in SK-N-SH cells over-expressing wild type human APP695. <i>Neuroscience Letters</i> , 2011, 487, 211-216.	2.1	25
41	Effects of fluoxetine on protein expression of potassium ion channels in the brain of chronic mild stress rats. <i>Acta Pharmaceutica Sinica B</i> , 2015, 5, 55-61.	12.0	25
42	An Increased TREK-1-like Potassium Current in Ventricular Myocytes During Rat Cardiac Hypertrophy. <i>Journal of Cardiovascular Pharmacology</i> , 2013, 61, 302-310.	1.9	24
43	A Novel Parkinson's Disease Drug Candidate with Potent Anti-neuroinflammatory Effects through the Src Signaling Pathway. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 9062-9079.	6.4	24
44	Protective Effects of L-3-n-Butylphthalide Against H ₂ O ₂ -Induced Injury in Neural Stem Cells by Activation of PI3K/Akt and Mash1 Pathway. <i>Neuroscience</i> , 2018, 393, 164-174.	2.3	24
45	Changes in Synaptic Plasticity and Glutamate Receptors in Type 2 Diabetic KK-Ay Mice. <i>Journal of Alzheimer's Disease</i> , 2017, 57, 1207-1220.	2.6	22
46	Potassium 2-(1-hydroxypropyl)-benzoate attenuates neuroinflammatory responses and upregulates heme oxygenase-1 in systemic lipopolysaccharide-induced inflammation in mice. <i>Acta Pharmaceutica Sinica B</i> , 2017, 7, 470-478.	12.0	22
47	Contribution of Kv channel subunits to glutamate-induced apoptosis in cultured rat hippocampal neurons. <i>Journal of Neuroscience Research</i> , 2009, 87, 3153-3160.	2.9	20
48	FLZ Attenuates β -Synuclein-Induced Neurotoxicity by Activating Heat Shock Protein 70. <i>Molecular Neurobiology</i> , 2017, 54, 349-361.	4.0	20
49	Strain- and Age-related Alteration of Proteins in the Brain of SAMP8 and SAMR1 Mice. <i>Journal of Alzheimer's Disease</i> , 2011, 23, 641-654.	2.6	19
50	Potassium 2-(1-Hydroxypropyl)-Benzoate Improves Memory Deficits and Attenuates Amyloid and β -Syn Pathologies in a Mouse Model of Alzheimer's Disease. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014, 350, 361-374.	2.5	18
51	Multifunctional Compound AD-35 Improves Cognitive Impairment and Attenuates the Production of TNF- α and IL-1 β in an A β 25-35-induced Rat Model of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2017, 56, 1403-1417.	2.6	18
52	Specific Changes of Serum Proteins in Parkinson's Disease Patients. <i>PLoS ONE</i> , 2014, 9, e95684.	2.5	17
53	Lig4-4 selectively inhibits TREK-1 and plays potent neuroprotective roles in vitro and in rat MCAO model. <i>Neuroscience Letters</i> , 2018, 671, 93-98.	2.1	16
54	Indole alkaloid glycosides with a 1 β -(phenyl)ethyl unit from <i>Isatis indigotica</i> leaves. <i>Acta Pharmaceutica Sinica B</i> , 2020, 10, 895-902.	12.0	16

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55	Galantamine blocks cloned Kv2.1, but not Kv1.5 potassium channels. <i>Molecular Brain Research</i> , 2004, 131, 136-140.	2.3	15
56	Potassium 2-(1-hydroxypentyl)-benzoate attenuated hydrogen peroxide-induced apoptosis in neuroblastoma SK-N-SH cells. <i>European Journal of Pharmacology</i> , 2012, 680, 49-54.	3.5	15
57	Potassium 2-(1-hydroxypentyl)-benzoate promotes long-term potentiation in A β 42-injected rats and APP/PS1 transgenic mice. <i>Acta Pharmacologica Sinica</i> , 2014, 35, 869-878.	6.1	15
58	Electrophysiology and pharmacology of tandem domain potassium channel TREK-1 related BDNF synthesis in rat astrocytes. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2014, 387, 303-312.	3.0	15
59	Over-expressed human TREK-1 inhibits CHO cell proliferation via inhibiting PKA and p38 MAPK pathways and subsequently inducing G1 arrest. <i>Acta Pharmacologica Sinica</i> , 2016, 37, 1190-1198.	6.1	15
60	Loperamide inhibits sodium channels to alleviate inflammatory hyperalgesia. <i>Neuropharmacology</i> , 2017, 117, 282-291.	4.1	15
61	L-NBP, a multiple growth factor activator, attenuates ischemic neuronal impairments possibly through promoting neuritogenesis. <i>Neurochemistry International</i> , 2019, 124, 94-105.	3.8	15
62	Effects of 2-(1-hydroxypentyl)-benzoate on platelet aggregation and thrombus formation in rats. <i>Drug Development Research</i> , 2004, 63, 174-180.	2.9	14
63	Delayed rectifier potassium currents and Kv2.1 mRNA increase in hippocampal neurons of scopolamine-induced memory-deficient rats. <i>Neuroscience Letters</i> , 2005, 373, 99-104.	2.1	14
64	Striatal 19S Rpt6 deficit is related to α -synuclein accumulation in MPTP-treated mice. <i>Biochemical and Biophysical Research Communications</i> , 2008, 376, 277-282.	2.1	14
65	Magmenthanes A-H: Eight new meroterpenoids from the bark of <i>Magnolia officinalis</i> var. <i>Biloba</i> . <i>Bioorganic Chemistry</i> , 2019, 88, 102948.	4.1	14
66	Functional Study of TREK-1 Potassium Channels During Rat Heart Development and Cardiac Ischemia Using RNAi Techniques. <i>Journal of Cardiovascular Pharmacology</i> , 2014, 64, 142-150.	1.9	13
67	Conversion and pharmacokinetics profiles of a novel pro-drug of 3-n-butylphthalide, potassium 2-(1-hydroxypentyl)-benzoate, in rats and dogs. <i>Acta Pharmacologica Sinica</i> , 2018, 39, 275-285.	6.1	13
68	Discovery of Hyperstable Noncanonical Plant-Derived Epidermal Growth Factor Receptor Agonist and Analogs. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 7746-7759.	6.4	13
69	Ten undescribed cembrane-type diterpenoids from the gum resin of <i>Boswellia sacra</i> and their biological activities. <i>Phytochemistry</i> , 2020, 177, 112425.	2.9	12
70	Selective alteration of expression of Na ⁺ /Ca ²⁺ exchanger isoforms after transient focal cerebral ischemia in rats. <i>Neuroscience Letters</i> , 2006, 404, 249-253.	2.1	10
71	Potassium 2-(1-hydroxypentyl)-benzoate attenuates neuronal apoptosis in neuron-astrocyte co-culture system through neurotrophin and neuroinflammation pathway. <i>Acta Pharmaceutica Sinica B</i> , 2017, 7, 554-563.	12.0	10
72	Potassium 2-(1-hydroxypentyl)-benzoate improves depressive-like behaviors in rat model. <i>Acta Pharmaceutica Sinica B</i> , 2018, 8, 881-888.	12.0	10

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73	Studies of pathology and pharmacology of diabetic encephalopathy with KK α mouse model. <i>CNS Neuroscience and Therapeutics</i> , 2020, 26, 332-342.	3.9	10
74	Effects of presenilins and beta-amyloid precursor protein on delayed rectifier potassium channels in cultured rat hippocampal neurons. <i>Acta Pharmacologica Sinica</i> , 2004, 25, 181-5.	6.1	10
75	mRNA expression alterations of inward rectifier potassium channels in rat brain with cholinergic impairment. <i>Neuroscience Letters</i> , 2002, 322, 25-28.	2.1	9
76	Altered gene expression of Na ⁺ /Ca ²⁺ exchanger isoforms NCX1, NCX2 and NCX3 in chronic ischemic rat brain. <i>Neuroscience Letters</i> , 2002, 332, 21-24.	2.1	9
77	Glomexanthones A α -C, three xanthonolignoid C-glycosides from <i>Polygala glomerata</i> Lour. <i>F\ddot{A}-toterap\ddot{A}-\ddot{A}</i> , 2014, 93, 175-181.	2.2	9
78	A novel synthetic derivative of squamosamide FLZ inhibits the high mobility group box 1 protein-mediated neuroinflammatory responses in murine BV2 microglial cells. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2017, 390, 643-650.	3.0	9
79	Inhibitory effects of antidepressant fluoxetine on cloned Kv2.1 potassium channel expressed in HEK293 \ddot{A} cells. <i>European Journal of Pharmacology</i> , 2020, 878, 173097.	3.5	9
80	Squamosamide derivative FLZ protected tyrosine hydroxylase function in a chronic MPTP/probenecid mouse model of Parkinson α ™s disease. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2015, 388, 549-556.	3.0	8
81	Potassium 2-(1-hydroxypentyl)-benzoate inhibits ADP-induced rat platelet aggregation through P2Y1-PLC signaling pathways. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2015, 388, 983-990.	3.0	8
82	Limonoids with neuroprotective activity from the stems of <i>Clausena emarginata</i> . <i>Journal of Asian Natural Products Research</i> , 2016, 18, 928-937.	1.4	6
83	Distal α type bronchiolar adenoma of the lung harboring an <i>EGFR</i> exon 21 p.L858R mutation: A case report. <i>Thoracic Cancer</i> , 2020, 11, 3596-3598.	1.9	6
84	New amide alkaloids and carbazole alkaloid from the stems of <i>Clausena lansium</i> . <i>F\ddot{A}-toterap\ddot{A}-\ddot{A}</i> , 2021, 154, 104999.	2.2	6
85	Distinct subcellular localization of E-cadherin between epithelioid angiomyolipoma and triphasic angiomyolipoma: A preliminary case-control study. <i>Oncology Letters</i> , 2017, 14, 695-704.	1.8	5
86	Protective effect of potassium 2-(1-hydroxypentyl)-benzoate on hippocampal neurons, synapses and dystrophic axons in APP/PS1 mice. <i>Psychopharmacology</i> , 2019, 236, 2761-2771.	3.1	5
87	Does a Deep Learning α Based Computer-Assisted Diagnosis System Outperform Conventional Double Reading by Radiologists in Distinguishing Benign and Malignant Lung Nodules?. <i>Frontiers in Oncology</i> , 2020, 10, 545862.	2.8	5
88	Claulansine F α -Donepezil Hybrids as Anti-Alzheimer α ™s Disease Agents with Cholinergic, Free-Radical Scavenging, and Neuroprotective Activities. <i>Molecules</i> , 2021, 26, 1303.	3.8	5
89	The attenuation effect of potassium 2 α (1 α -hydroxypentyl) α benzoate in a mouse model of diabetes α associated cognitive decline: The protein expression in the brain. <i>CNS Neuroscience and Therapeutics</i> , 2022, , .	3.9	5
90	Protective effects of TREK-1 against oxidative injury induced by SNP and H2O2. <i>Acta Pharmacologica Sinica</i> , 2008, 29, 1150-1156.	6.1	4

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91	Identification of WB4101, an α_1 -Adrenoceptor Antagonist, as a Sodium Channel Blocker. <i>Molecular Pharmacology</i> , 2018, 94, 896-906.	2.3	4
92	Three unprecedented biphenyl derivatives bearing C6-C3 carbon skeleton from the bark of <i>Magnolia officinalis</i> var. <i>biloba</i> . <i>Chinese Chemical Letters</i> , 2020, 31, 1248-1250.	9.0	4
93	Toxicokinetics and toxicity of potassium 2-(1-hydroxypentyl)-benzoate in beagle dogs. <i>Journal of Asian Natural Products Research</i> , 2017, 19, 388-401.	1.4	3
94	Absolute Structure Determination and Kv1.5 Ion Channel Inhibition Activities of New Debromoaplysiatoxin Analogues. <i>Marine Drugs</i> , 2021, 19, 630.	4.6	3
95	Effect of <i>tyrphostin AG</i> 879 on <i>Kv</i> 4.2 and <i>Kv</i> 4.3 potassium channels. <i>British Journal of Pharmacology</i> , 2015, 172, 3370-3382.	5.4	2
96	2-(4-methylthiazol-5-yl) ethyl nitrate maleate potentiated GABA A receptor response in hippocampal neurons. <i>CNS Neuroscience and Therapeutics</i> , 2018, 24, 1231-1240.	3.9	2
97	Hsp90 α inhibitors prevent GLT-1 degradation but have no beneficial efficacy on absence epilepsy. <i>Journal of Asian Natural Products Research</i> , 2019, 21, 905-915.	1.4	2
98	Isolation and structural elucidation of bioactive obovatol dimeric neolignans from the bark of <i>Magnolia officinalis</i> var. <i>biloba</i> . <i>Phytochemistry</i> , 2022, 194, 113020.	2.9	2
99	Structures and neuroprotective activities of triterpenoids from <i>Cynomorium coccineum</i> subsp. <i>songaricum</i> (Rupr.) J. Leonard. <i>Phytochemistry</i> , 2022, 198, 113155.	2.9	2
100	Necessity of Intraoperative Level IIA Lymph Node Dissection in Patients with Carotid Body Tumors: A Retrospective Study of 126 Cases. <i>Orl</i> , 2022, 84, 271-277.	1.1	1
101	The regulatory role of Gnao1 protein in diabetic encephalopathy in KK-Ay mice and streptozotocin-induced diabetic rats. <i>Brain Research</i> , 2022, 1792, 148012.	2.2	1
102	Multi-target effects of 3-n-Butylphalide, a component of <i>Apium graveolens</i> L., in treatment of neurodegenerative diseases. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, SY40-3.	0.0	0