

Jin-Hui Wang

List of Publications by Year in descending order

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112
papers

3,078
citations

147801

31
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223800

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117
all docs

117
docs citations

117
times ranked

2757
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymmetric Synthesis of Cyclohexane-Fused Drug-Like Spirocyclic Scaffolds Containing Six Contiguous Stereogenic Centers via Organocatalytic Cascade Reactions. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 561-568.	4.3	110
2	Comparative transcriptome combined with morpho-physiological analyses revealed key factors for differential cadmium accumulation in two contrasting sweet sorghum genotypes. <i>Plant Biotechnology Journal</i> , 2018, 16, 558-571.	8.3	106
3	Lignin engineering through laccase modification: a promising field for energy plant improvement. <i>Biotechnology for Biofuels</i> , 2015, 8, 145.	6.2	104
4	Calcium-calmodulin signalling pathway upregulates glutamatergic synaptic function in non-pyramidal, fast spiking rat hippocampal CA1 neurons. <i>Journal of Physiology</i> , 2001, 533, 407-422.	2.9	103
5	Short-term cerebral ischemia causes the dysfunction of interneurons and more excitation of pyramidal neurons in rats. <i>Brain Research Bulletin</i> , 2003, 60, 53-58.	3.0	97
6	Calcium signal-dependent plasticity of neuronal excitability developed postnatally. <i>Journal of Neurobiology</i> , 2004, 61, 277-287.	3.6	85
7	Homeostasis established by coordination of subcellular compartment plasticity improves spike encoding. <i>Journal of Cell Science</i> , 2008, 121, 2961-2971.	2.0	70
8	Gain and fidelity of transmission patterns at cortical excitatory unitary synapses improve spike encoding. <i>Journal of Cell Science</i> , 2008, 121, 2951-2960.	2.0	65
9	Essential role of axonal VGSC inactivation in time-dependent deceleration and unreliability of spike propagation at cerebellar Purkinje cells. <i>Molecular Brain</i> , 2014, 7, 1.	2.6	63
10	GABAergic neurons in nucleus accumbens are correlated to resilience and vulnerability to chronic stress for major depression. <i>Oncotarget</i> , 2017, 8, 35933-35945.	1.8	61
11	Molecular Mechanism for Stress-Induced Depression Assessed by Sequencing miRNA and mRNA in Medial Prefrontal Cortex. <i>PLoS ONE</i> , 2016, 11, e0159093.	2.5	61
12	Anti-inflammatory ligustilides from <i>Ligusticum chuanxiong</i> Hort. <i>Fä-toterapÄ-Äç</i> , 2013, 91, 21-27.	2.2	60
13	The refractory periods and threshold potentials of sequential spikes measured by whole-cell recording. <i>Biochemical and Biophysical Research Communications</i> , 2006, 340, 151-157.	2.1	57
14	P21-Activated Kinase 1: Emerging biological functions and potential therapeutic targets in Cancer. <i>Theranostics</i> , 2020, 10, 9741-9766.	10.0	56
15	Salvianolic acid A attenuates kidney injury and inflammation by inhibiting NF-ÎB and p38 MAPK signaling pathways in 5/6 nephrectomized rats. <i>Acta Pharmacologica Sinica</i> , 2018, 39, 1855-1864.	6.1	52
16	Upregulation of Barrel GABAergic Neurons Is Associated with Cross-Modal Plasticity in Olfactory Deficit. <i>PLoS ONE</i> , 2010, 5, e13736.	2.5	51
17	mGluR1,5 activation improves network asynchrony and GABAergic synapse attenuation in the amygdala: implication for anxiety-like behavior in DBA/2 mice. <i>Molecular Brain</i> , 2012, 5, 20.	2.6	50
18	Sodium channel-mediated intrinsic mechanisms underlying the differences of spike programming among GABAergic neurons. <i>Biochemical and Biophysical Research Communications</i> , 2006, 346, 281-287.	2.1	49

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19	Afterhyperpolarization improves spike programming through lowering threshold potentials and refractory periods mediated by voltage-gated sodium channels. <i>Biochemical and Biophysical Research Communications</i> , 2006, 346, 938-945.	2.1	49
20	Lathyrane-type diterpenoids from the seeds of <i>Euphorbia lathyris</i> . <i>Phytochemistry</i> , 2014, 104, 79-88.	2.9	48
21	Neurons in the barrel cortex turn into processing whisker and odor signals: a cellular mechanism for the storage and retrieval of associative signals. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 320.	3.7	46
22	Protective effects of Rosavin on bleomycin-induced pulmonary fibrosis via suppressing fibrotic and inflammatory signaling pathways in mice. <i>Biomedicine and Pharmacotherapy</i> , 2019, 115, 108870.	5.6	45
23	Physiological synaptic signals initiate sequential spikes at soma of cortical pyramidal neurons. <i>Molecular Brain</i> , 2011, 4, 19.	2.6	43
24	microRNA and mRNA profiles in ventral tegmental area relevant to stress-induced depression and resilience. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2018, 86, 150-165.	4.8	43
25	Incoordination among Subcellular Compartments Is Associated with Depression-Like Behavior Induced by Chronic Mild Stress. <i>International Journal of Neuropsychopharmacology</i> , 2016, 19, pyv122.	2.1	42
26	Barrel cortical neurons and astrocytes coordinately respond to an increased whisker stimulus frequency. <i>Molecular Brain</i> , 2012, 5, 12.	2.6	39
27	Upregulation of excitatory neurons and downregulation of inhibitory neurons in barrel cortex are associated with loss of whisker inputs. <i>Molecular Brain</i> , 2013, 6, 2.	2.6	39
28	Quantal Glutamate Release Is Essential for Reliable Neuronal Encodings in Cerebral Networks. <i>PLoS ONE</i> , 2011, 6, e25219.	2.5	38
29	Associations of Unilateral Whisker and Olfactory Signals Induce Synapse Formation and Memory Cell Recruitment in Bilateral Barrel Cortices: Cellular Mechanism for Unilateral Training Toward Bilateral Memory. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 285.	3.7	36
30	Axons Amplify Somatic Incomplete Spikes into Uniform Amplitudes in Mouse Cortical Pyramidal Neurons. <i>PLoS ONE</i> , 2010, 5, e11868.	2.5	34
31	Upregulation of transmitter release probability improves a conversion of synaptic analogue signals into neuronal digital spikes. <i>Molecular Brain</i> , 2012, 5, 26.	2.6	33
32	The coupling features of electrical synapses modulate neuronal synchrony in hypothalamic superchiasmatic nucleus. <i>Brain Research</i> , 2014, 1550, 9-17.	2.2	32
33	Associative Memory Extinction Is Accompanied by Decayed Plasticity at Motor Cortical Neurons and Persistent Plasticity at Sensory Cortical Neurons. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 168.	3.7	32
34	Comparative proteomics of root plasma membrane proteins reveals the involvement of calcium signalling in NaCl-facilitated nitrate uptake in <i>Salicornia europaea</i> . <i>Journal of Experimental Botany</i> , 2015, 66, 4497-4510.	4.8	31
35	Design, synthesis and biological evaluation of novel HDAC inhibitors with improved pharmacokinetic profile in breast cancer. <i>European Journal of Medicinal Chemistry</i> , 2020, 205, 112648.	5.5	30
36	Hexopyrophosphatase from <i>Salicornia europaea</i> confers tolerance to simultaneously occurring salt stress and nitrogen deficiency in <i>A. rabi-dopsis</i> and wheat. <i>Plant, Cell and Environment</i> , 2015, 38, 2433-2449.	5.7	29

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37	Associative memory cells and their working principle in the brain. F1000Research, 2018, 7, 108.	1.6	29
38	Identification and validation of two major QTLs for spike compactness and length in bread wheat (<i>Triticum aestivum</i> L.) showing pleiotropic effects on yield-related traits. Theoretical and Applied Genetics, 2021, 134, 3625-3641.	3.6	28
39	Glucocorticoid Induces Incoordination between Glutamatergic and GABAergic Neurons in the Amygdala. PLoS ONE, 2016, 11, e0166535.	2.5	28
40	Input-dependent subcellular localization of spike initiation between soma and axon at cortical pyramidal neurons. Molecular Brain, 2014, 7, 26.	2.6	27
41	Voltage-independent sodium channels emerge for an expression of activity-induced spontaneous spikes in GABAergic neurons. Molecular Brain, 2014, 7, 38.	2.6	27
42	Design and synthesis of a novel candidate compound NTI-007 targeting sodium taurocholate cotransporting polypeptide [NTCP] and APOA1 in HBV therapy. Bioorganic and Medicinal Chemistry, 2015, 23, 976-984.	3.0	27
43	Barrel Cortical Neuron Integrates Triple Associated Signals for Their Memory Through Receiving Epigenetic-Mediated New Synapse Innervations. Cerebral Cortex, 2017, 27, 5858-5871.	2.9	27
44	Ferulin C triggers potent PAK1 and p21-mediated anti-tumor effects in breast cancer by inhibiting Tubulin polymerization in vitro and in vivo. Pharmacological Research, 2020, 152, 104605.	7.1	27
45	Piriform cortical glutamatergic and GABAergic neurons express coordinated plasticity for whisker-induced odor recall. Oncotarget, 2017, 8, 95719-95740.	1.8	27
46	Acidosis-Induced Dysfunction of Cortical GABAergic Neurons through Astrocyte-Related Excitotoxicity. PLoS ONE, 2015, 10, e0140324.	2.5	26
47	New triterpenoids from the latex of <i>Euphorbia resinifera</i> Berg.. F1000Research, 2016, 108, 33-40.	2.2	26
48	Design, synthesis and biological evaluation of pyrimidine derivatives as novel CDK2 inhibitors that induce apoptosis and cell cycle arrest in breast cancer cells. Bioorganic and Medicinal Chemistry, 2018, 26, 3491-3501.	3.0	26
49	Identification and Validation of a Novel Locus Controlling Spikelet Number in Bread Wheat (<i>Triticum</i>) Tj ETQq1 1 0.784314 rgBT /Ove	3.6	26
50	Coordinated Plasticity between Barrel Cortical Glutamatergic and GABAergic Neurons during Associative Memory. Neural Plasticity, 2016, 2016, 1-20.	2.2	25
51	microRNA and mRNA profiles in the amygdala are associated with stress-induced depression and resilience in juvenile mice. Psychopharmacology, 2019, 236, 2119-2142.	3.1	25
52	Associative memory cells: Formation, function and perspective. F1000Research, 2017, 6, 283.	1.6	24
53	Protective effects of seed melon extract on CCl4-induced hepatic fibrosis in mice. Journal of Ethnopharmacology, 2016, 193, 531-537.	4.1	23
54	Atorvastatin Ester Regulates Lipid Metabolism in Hyperlipidemia Rats via the PPAR-signaling Pathway and HMGCR Expression in the Liver. International Journal of Molecular Sciences, 2021, 22, 11107.	4.1	23

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55	DAW22, a natural sesquiterpene coumarin isolated from <i>Ferula ferulaeoides</i> (Steud.) Korov. that induces C6 glioma cell apoptosis and endoplasmic reticulum (ER) stress. <i>FÄ-toterapÄ-Äç</i> , 2015, 103, 46-54.	2.2	22
56	Coordinated Plasticity among Glutamatergic and GABAergic Neurons and Synapses in the Barrel Cortex Is Correlated to Learning Efficiency. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 221.	3.7	22
57	Kanglexin, a new anthraquinone compound, attenuates lipid accumulation by activating the AMPK/SREBP-2/PCSK9/LDLR signalling pathway. <i>Biomedicine and Pharmacotherapy</i> , 2021, 133, 110802.	5.6	22
58	The Functional Upregulation of Piriform Cortex Is Associated with Cross-Modal Plasticity in Loss of Whisker Tactile Inputs. <i>PLoS ONE</i> , 2012, 7, e41986.	2.5	22
59	Upregulation of Glutamatergic Receptor-Channels is Associated with Cross-Modal Reflexes Encoded in Barrel Cortex and Piriform Cortex. <i>Biophysical Journal</i> , 2014, 106, 191a.	0.5	21
60	Synapse Innervation and Associative Memory Cell Are Recruited for Integrative Storage of Whisker and Odor Signals in the Barrel Cortex through miRNA-Mediated Processes. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 316.	3.7	21
61	A Novel Suppressive Effect of Alcohol Dehydrogenase 5 in Neuronal Differentiation. <i>Journal of Biological Chemistry</i> , 2014, 289, 20193-20199.	3.4	19
62	Sesquiterpene acids from Shellac and their bioactivities evaluation. <i>FÄ-toterapÄ-Äç</i> , 2014, 97, 64-70.	2.2	19
63	FGFR antagonist induces protective autophagy in FGFR1-amplified breast cancer cell. <i>Biochemical and Biophysical Research Communications</i> , 2016, 474, 1-7.	2.1	19
64	mRNA and miRNA profiles in the nucleus accumbens are related to fear memory and anxiety induced by physical or psychological stress. <i>Journal of Psychiatric Research</i> , 2019, 118, 44-65.	3.1	19
65	Associative memory cells: Formation, function and perspective. <i>F1000Research</i> , 2017, 6, 283.	1.6	18
66	Genetic dissection of quantitative trait loci for grain size and weight by high-resolution genetic mapping in bread wheat (<i>Triticum aestivum</i> L.). <i>Theoretical and Applied Genetics</i> , 2022, 135, 257-271.	3.6	18
67	microRNA and mRNA profiles in the amygdala are relevant to fear memory induced by physical or psychological stress. <i>Journal of Neurophysiology</i> , 2019, 122, 1002-1022.	1.8	17
68	Kanglexin accelerates diabetic wound healing by promoting angiogenesis via FGFR1/ERK signaling. <i>Biomedicine and Pharmacotherapy</i> , 2020, 132, 110933.	5.6	17
69	Functional compatibility between Purkinje cell axon branches and their target neurons in the cerebellum. <i>Oncotarget</i> , 2017, 8, 72424-72437.	1.8	17
70	microRNA-15b contributes to depression-like behavior in mice by affecting synaptic protein levels and function in the nucleus accumbens. <i>Journal of Biological Chemistry</i> , 2020, 295, 6831-6848.	3.4	15
71	A New Alkaloid from the Seeds of <i>Sophora alopecuroides</i> L.. <i>Helvetica Chimica Acta</i> , 2012, 95, 1108-1113.	1.6	14
72	Efficient construction of biologically important functionalized polycyclic spiro-fused carbocyclicoxindoles via an asymmetric organocatalytic quadruple-cascade reaction. <i>RSC Advances</i> , 2017, 7, 1863-1868.	3.6	14

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73	Chemical Fingerprint Analysis for Discovering Markers and Identifying <i>Saussurea involucreata</i> by HPLC Coupled with OPLS-DA. <i>Journal of Analytical Methods in Chemistry</i> , 2020, 2020, 1-8.	1.6	14
74	Two novel compounds from green walnut husks (<i>Juglans mandshurica</i> Maxim.). <i>Natural Product Research</i> , 2020, , 1-9.	1.8	14
75	Determination of Flavonoids Compounds of Three Species and Different Harvesting Periods in <i>Crataegi folium</i> Based on LC-MS/MS. <i>Molecules</i> , 2021, 26, 1602.	3.8	14
76	Design, synthesis and biological evaluation of dual mTOR/HDAC6 inhibitors in MDA-MB-231 cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 47, 128204.	2.2	14
77	Activity strengths of cortical glutamatergic and GABAergic neurons are correlated with transgenerational inheritance of learning ability. <i>Oncotarget</i> , 2017, 8, 112401-112416.	1.8	14
78	miRNA-324/-133a essential for recruiting new synapse innervations and associative memory cells in coactivated sensory cortices. <i>Neurobiology of Learning and Memory</i> , 2020, 172, 107246.	1.9	13
79	Treatment with MQA, a Derivative of Caffeoylquinic Acid, Provides Neuroprotective Effects against Cerebral Ischemia Through Suppression of the p38 Pathway and Oxidative Stress in Rats. <i>Journal of Molecular Neuroscience</i> , 2019, 67, 604-612.	2.3	11
80	Preparative separation of four isomers of synthetic anisodamine by HPLC and diastereomer crystallization. <i>Chirality</i> , 2019, 31, 11-20.	2.6	11
81	Kang Le Xin Reduces Blood Pressure Through Inducing Endothelial-Dependent Vasodilation by Activating the AMPK-eNOS Pathway. <i>Frontiers in Pharmacology</i> , 2019, 10, 1548.	3.5	11
82	Activity-induced spontaneous spikes in GABAergic neurons suppress seizure discharges: an implication of computational modeling. <i>Oncotarget</i> , 2017, 8, 32384-32397.	1.8	11
83	Ecdysterones from <i>Rhaponticum carthamoides</i> (Willd.) IJin reduce hippocampal excitotoxic cell loss and upregulate mTOR signaling in rats. <i>FÄ-toterapÄ-ÄÇ</i> , 2017, 119, 158-167.	2.2	10
84	Five novel diarylheptanoids from green walnut husks (<i>Juglans regia</i> L.). <i>FÄ-toterapÄ-ÄÇ</i> , 2019, 134, 221-225.	2.2	10
85	Revision to psychopharmacology mRNA and microRNA profiles are associated with stress susceptibility and resilience induced by psychological stress in the prefrontal cortex. <i>Psychopharmacology</i> , 2020, 237, 3067-3093.	3.1	10
86	Searching basic units in memory traces: associative memory cells. <i>F1000Research</i> , 2019, 8, 457.	1.6	9
87	PKC and CaMK-II inhibitions coordinately rescue ischemia-induced GABAergic neuron dysfunction. <i>Oncotarget</i> , 2017, 8, 39309-39322.	1.8	9
88	Pharmacological Basis for Use of a Novel Compound in Hyperuricemia: Anti-Hyperuricemic and Anti-Inflammatory Effects. <i>Frontiers in Pharmacology</i> , 2021, 12, 772504.	3.5	9
89	Reward memory relieves anxiety-related behavior through synaptic strengthening and protein kinase C in dentate gyrus. <i>Hippocampus</i> , 2016, 26, 502-516.	1.9	8
90	Coactivations of barrel and piriform cortices induce their mutual synapse innervations and recruit associative memory cells. <i>Brain Research</i> , 2019, 1721, 146333.	2.2	8

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91	mRNA and miRNA profiles in the nucleus accumbens are associated with psychological stress-induced susceptible and resilient mice. <i>Pharmacology Biochemistry and Behavior</i> , 2020, 199, 173062.	2.9	7
92	Cell-specific plasticity associated with integrative memory of triple sensory signals in the barrel cortex. <i>Oncotarget</i> , 2018, 9, 30962-30978.	1.8	7
93	Structural identification and biological activity of six new Shellolic esters from <i>Lac. F</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2018, 125, 221-226.	2.2	6
94	Molecular mechanism of reward treatment ameliorating chronic stress-induced depressive-like behavior assessed by sequencing miRNA and mRNA in medial prefrontal cortex. <i>Biochemical and Biophysical Research Communications</i> , 2020, 528, 520-527.	2.1	6
95	High-resolution detection of quantitative trait loci for seven important yield-related traits in wheat (<i>Triticum aestivum</i> L.) using a high-density SLAF-seq genetic map. <i>BMC Genomic Data</i> , 2022, 23, 37.	1.7	6
96	Establishment of a gene function analysis system for the eukaryote <i>Salicornia europaea</i> L. <i>Plant Cell Reports</i> , 2017, 36, 1251-1261.	5.6	5
97	4-Alkyl-5,7-dihydroxycoumarins from the flowering buds of <i>Mesua ferrea</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2019, 138, 104192.	2.2	5
98	mRNA and microRNA Profiles in the Amygdala Are Relevant to Susceptibility and Resilience to Psychological Stress Induced in Mice. <i>Journal of Molecular Neuroscience</i> , 2020, 70, 1771-1796.	2.3	5
99	Identification and candidate gene mining of HvSS1, a novel qualitative locus on chromosome 6H, regulating the uppermost internode elongation in barley (<i>Hordeum vulgare</i> L.). <i>Theoretical and Applied Genetics</i> , 2021, 134, 2481-2494.	3.6	5
100	Protective effects of <i>Foeniculum vulgare</i> root bark extract against carbon tetrachloride-induced hepatic fibrosis in mice. <i>World Journal of Gastroenterology</i> , 2017, 23, 5722.	3.3	5
101	Chemical Constituents of the Flowers of <i>Fritillaria pallidiflora</i> . <i>Chemistry of Natural Compounds</i> , 2016, 52, 309-310.	0.8	3
102	Design, synthesis and biological evaluation of 2-indolinone derivatives as PAK1 inhibitors in MDA-MB-231 cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127355.	2.2	3
103	<i>Rhodiola rosea</i> L. Attenuates Cigarette Smoke and Lipopolysaccharide-Induced COPD in Rats via Inflammation Inhibition and Antioxidant and Antifibrosis Pathways. <i>Evidence-based Complementary and Alternative Medicine</i> , 2021, 2021, 1-18.	1.2	3
104	PAID study design on the role of PKC activation in immune/inflammation-related depression: a randomised placebo-controlled trial protocol. <i>Annals of General Psychiatry</i> , 2021, 34, e100440.	3.1	3
105	Genetic and molecular characterization of determinant of six-rowed spike of barley carrying vrs1.a4. <i>Theoretical and Applied Genetics</i> , 2021, 134, 3225-3236.	3.6	3
106	Tongmai granules improve rat hippocampal injury by regulating TLR4/MyD88/AP-1 signaling pathway. <i>Journal of Ethnopharmacology</i> , 2022, 285, 114874.	4.1	3
107	Kanglexin protects against cardiac fibrosis and dysfunction in mice by TGF- β 1/ERK1/2 noncanonical pathway. <i>Frontiers in Pharmacology</i> , 2020, 11, 572637.	3.5	2
108	Transition Metal-Free Aerobic Oxidation of Aryl Secondary and Primary Alcohols to Carbonyl Compounds in Open Air. <i>ChemistrySelect</i> , 2022, 7, .	1.5	2

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109	Untargeted Metabolomics Analysis of Different Grape Varieties and Different Parts of Wine Grape Using Gas Chromatography and Mass Spectrometry Technique. <i>Journal of Biobased Materials and Bioenergy</i> , 2021, 15, 459-471.	0.3	1
110	Three new tyrosol derivatives from Huangjing wine. <i>Journal of Asian Natural Products Research</i> , 2021, , 1-7.	1.4	1
111	Simultaneous Quantification of Diarylheptanoids and Phenolic Compounds in <i>Juglans mandshurica</i> Maxim. by UPLC-TO-MS. <i>Separations</i> , 2021, 8, 132.	2.4	0
112	Commonalities and characteristics of aqueous extracts from three Uighur medicines were analyzed by using three-stage infrared spectroscopy combined with ultra-performance liquid chromatography-time of flight-mass spectra. <i>Journal of Traditional Chinese Medicine</i> , 2019, 39, 118-126.	0.2	0