

Guang-Hui Wang

List of Publications by Year in descending order

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116
papers

12,976
citations

66343

42
h-index

23533

111
g-index

119
all docs

119
docs citations

119
times ranked

25932
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
3	Cerebral ischemia-reperfusion-induced autophagy protects against neuronal injury by mitochondrial clearance. <i>Autophagy</i> , 2013, 9, 1321-1333.	9.1	416
4	DJ-1 Decreases Bax Expression through Repressing p53 Transcriptional Activity. <i>Journal of Biological Chemistry</i> , 2008, 283, 4022-4030.	3.4	207
5	Nucleolar stress and impaired stress granule formation contribute to C9orf72 RAN translation-induced cytotoxicity. <i>Human Molecular Genetics</i> , 2015, 24, 2426-2441.	2.9	205
6	Degradation of TDP-43 and its pathogenic form by autophagy and the ubiquitin-proteasome system. <i>Neuroscience Letters</i> , 2010, 469, 112-116.	2.1	183
7	The mitochondrial protein BNIP3L is the substrate of PARK2 and mediates mitophagy in PINK1/PARK2 pathway. <i>Human Molecular Genetics</i> , 2015, 24, 2528-2538.	2.9	165
8	TDP-43 loss of function increases TFEB activity and blocks autophagosome-lysosome fusion. <i>EMBO Journal</i> , 2016, 35, 121-142.	7.8	147
9	Parkin Mono-ubiquitinates Bcl-2 and Regulates Autophagy. <i>Journal of Biological Chemistry</i> , 2010, 285, 38214-38223.	3.4	142
10	Mitochondrial dysfunction in Parkinson's disease. <i>Translational Neurodegeneration</i> , 2016, 5, 14.	8.0	129
11	Gp78, an ER associated E3, promotes SOD1 and ataxin-3 degradation. <i>Human Molecular Genetics</i> , 2009, 18, 4268-4281.	2.9	117
12	Caspase activation during apoptotic cell death induced by expanded polyglutamine in N2a cells. <i>NeuroReport</i> , 1999, 10, 2435-2438.	1.2	90
13	Induction of COX-2-PGE2 synthesis by activation of the MAPK/ERK pathway contributes to neuronal death triggered by TDP-43-depleted microglia. <i>Cell Death and Disease</i> , 2015, 6, e1702-e1702.	6.3	87
14	Identification of CHIP as a Novel Causative Gene for Autosomal Recessive Cerebellar Ataxia. <i>PLoS ONE</i> , 2013, 8, e81884.	2.5	86
15	SUMO-1 modification increases human SOD1 stability and aggregation. <i>Biochemical and Biophysical Research Communications</i> , 2006, 347, 406-412.	2.1	85
16	Impact of Dopamine Oxidation on Dopaminergic Neurodegeneration. <i>ACS Chemical Neuroscience</i> , 2019, 10, 945-953.	3.5	84
17	Pharmacological activation of REV-ERB α represses LPS-induced microglial activation through the NF- κ B pathway. <i>Acta Pharmacologica Sinica</i> , 2019, 40, 26-34.	6.1	79
18	Coding mutations in NUS1 contribute to Parkinson's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11567-11572.	7.1	78

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19	Omi/HtrA2 is a positive regulator of autophagy that facilitates the degradation of mutant proteins involved in neurodegenerative diseases. <i>Cell Death and Differentiation</i> , 2010, 17, 1773-1784.	11.2	77
20	DJ-1, a cancer and Parkinson's disease associated protein, regulates autophagy through JNK pathway in cancer cells. <i>Cancer Letters</i> , 2010, 297, 101-108.	7.2	77
21	Oxidized DJ-1 Interacts with the Mitochondrial Protein BCL-XL. <i>Journal of Biological Chemistry</i> , 2011, 286, 35308-35317.	3.4	75
22	Protein Modification and Autophagy Activation. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1206, 237-259.	1.6	73
23	A pivotal role of FOS-mediated BECN1/Beclin 1 upregulation in dopamine D2 and D3 receptor agonist-induced autophagy activation. <i>Autophagy</i> , 2015, 11, 2057-2073.	9.1	72
24	The Involvement of Retinoic Acid Receptor- β in Corticotropin-Releasing Hormone Gene Expression and Affective Disorders. <i>Biological Psychiatry</i> , 2009, 66, 832-839.	1.3	69
25	Motor dysfunction and neurodegeneration in a C9orf72 mouse line expressing poly-PR. <i>Nature Communications</i> , 2019, 10, 2906.	12.8	68
26	UBA5 Mutations Cause a New Form of Autosomal Recessive Cerebellar Ataxia. <i>PLoS ONE</i> , 2016, 11, e0149039.	2.5	68
27	Rotenone Directly Induces BV2 Cell Activation via the p38 MAPK Pathway. <i>PLoS ONE</i> , 2013, 8, e72046.	2.5	65
28	Oxidation of multiple MiT/TFE transcription factors links oxidative stress to transcriptional control of autophagy and lysosome biogenesis. <i>Autophagy</i> , 2020, 16, 1683-1696.	9.1	65
29	Histamine H3 receptors aggravate cerebral ischaemic injury by histamine-independent mechanisms. <i>Nature Communications</i> , 2014, 5, 3334.	12.8	62
30	Ataxin-3 Regulates Aggresome Formation of Copper-Zinc Superoxide Dismutase (SOD1) by Editing K63-linked Polyubiquitin Chains. <i>Journal of Biological Chemistry</i> , 2012, 287, 28576-28585.	3.4	61
31	BAG5 Protects against Mitochondrial Oxidative Damage through Regulating PINK1 Degradation. <i>PLoS ONE</i> , 2014, 9, e86276.	2.5	56
32	Activation of AMPK/mTORC1-Mediated Autophagy by Metformin Reverses Clk1 Deficiency-Sensitized Dopaminergic Neuronal Death. <i>Molecular Pharmacology</i> , 2017, 92, 640-652.	2.3	56
33	Molecular evolution and functional divergence of zebrafish (<i>Danio rerio</i>) cryptochrome genes. <i>Scientific Reports</i> , 2015, 5, 8113.	3.3	52
34	Dysbindin-1, a schizophrenia-related protein, facilitates neurite outgrowth by promoting the transcriptional activity of p53. <i>Molecular Psychiatry</i> , 2011, 16, 1105-1116.	7.9	49
35	The protease Omi regulates mitochondrial biogenesis through the GSK3 β /PGC-1 β pathway. <i>Cell Death and Disease</i> , 2014, 5, e1373-e1373.	6.3	49
36	The ubiquitin ligase HERC4 mediates c-Maf ubiquitination and delays the growth of multiple myeloma xenografts in nude mice. <i>Blood</i> , 2016, 127, 1676-1686.	1.4	49

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37	Phosphorylation of ataxin-3 by glycogen synthase kinase 3 β at serine 256 regulates the aggregation of ataxin-3. <i>Biochemical and Biophysical Research Communications</i> , 2007, 357, 487-492.	2.1	48
38	The KDEL receptor induces autophagy to promote the clearance of neurodegenerative disease-related proteins. <i>Neuroscience</i> , 2011, 190, 43-55.	2.3	48
39	Sumoylation is critical for DJ-1 to repress p53 transcriptional activity. <i>FEBS Letters</i> , 2008, 582, 1151-1156.	2.8	47
40	SKF83959 Is a Potent Allosteric Modulator of Sigma-1 Receptor. <i>Molecular Pharmacology</i> , 2013, 83, 577-586.	2.3	47
41	Assembly of Lysine 63-linked Ubiquitin Conjugates by Phosphorylated α -Synuclein Implies Lewy Body Biogenesis. <i>Journal of Biological Chemistry</i> , 2007, 282, 14558-14566.	3.4	45
42	The Cross-Links of Endoplasmic Reticulum Stress, Autophagy, and Neurodegeneration in Parkinson's Disease. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 691881.	3.4	45
43	Bcl-2-dependent upregulation of autophagy by sequestosome 1/p62 in vitro. <i>Acta Pharmacologica Sinica</i> , 2013, 34, 651-656.	6.1	44
44	Microglial MT1 activation inhibits LPS-induced neuroinflammation via regulation of metabolic reprogramming. <i>Aging Cell</i> , 2021, 20, e13375.	6.7	44
45	Nurr1 is phosphorylated by ERK2 in vitro and its phosphorylation upregulates tyrosine hydroxylase expression in SH-SY5Y cells. <i>Neuroscience Letters</i> , 2007, 423, 118-122.	2.1	43
46	The Endoplasmic Reticulum (ER)-associated Degradation System Regulates Aggregation and Degradation of Mutant Neuroserpin. <i>Journal of Biological Chemistry</i> , 2011, 286, 20835-20844.	3.4	42
47	NGFI-B Nuclear Orphan Receptor Nurr1 Interacts with p53 and Suppresses Its Transcriptional Activity. <i>Molecular Cancer Research</i> , 2009, 7, 1408-1415.	3.4	41
48	Vitamin K2 suppresses rotenone-induced microglial activation in vitro. <i>Acta Pharmacologica Sinica</i> , 2016, 37, 1178-1189.	6.1	39
49	Nuclear miR-30b-5p suppresses TFEB-mediated lysosomal biogenesis and autophagy. <i>Cell Death and Differentiation</i> , 2021, 28, 320-336.	11.2	38
50	Machado-Joseph Disease Gene Product Identified in Lymphocytes and Brain. <i>Biochemical and Biophysical Research Communications</i> , 1997, 233, 476-479.	2.1	37
51	Protease Omi cleaving Hax-1 protein contributes to OGD/R-induced mitochondrial damage in neuroblastoma N2a cells and cerebral injury in MCAO mice. <i>Acta Pharmacologica Sinica</i> , 2015, 36, 1043-1052.	6.1	35
52	C9orf72 associates with inactive Rag GTPases and regulates mTORC1-mediated autophagosomal and lysosomal biogenesis. <i>Aging Cell</i> , 2020, 19, e13126.	6.7	34
53	Allosteric modulation of sigma-1 receptors elicits anti-seizure activities. <i>British Journal of Pharmacology</i> , 2015, 172, 4052-4065.	5.4	33
54	L166P mutant DJ-1 promotes cell death by dissociating Bax from mitochondrial Bcl-XL. <i>Molecular Neurodegeneration</i> , 2012, 7, 40.	10.8	32

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55	The BAG2 protein stabilises PINK1 by decreasing its ubiquitination. <i>Biochemical and Biophysical Research Communications</i> , 2013, 441, 488-492.	2.1	32
56	A critical role of Hrd1 in the regulation of optineurin degradation and aggresome formation. <i>Human Molecular Genetics</i> , 2017, 26, 1877-1889.	2.9	32
57	Activation of Nur77 in microglia attenuates proinflammatory mediators production and protects dopaminergic neurons from inflammation-induced cell death. <i>Journal of Neurochemistry</i> , 2017, 140, 589-604.	3.9	32
58	DJ-1 inhibits TRAIL-induced apoptosis by blocking pro-caspase-8 recruitment to FADD. <i>Oncogene</i> , 2012, 31, 1311-1322.	5.9	30
59	P7C3 inhibits GSK3 β activation to protect dopaminergic neurons against neurotoxin-induced cell death in vitro and in vivo. <i>Cell Death and Disease</i> , 2017, 8, e2858-e2858.	6.3	29
60	Autophagy in Mitochondrial Quality Control. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1206, 421-434.	1.6	29
61	The Ubiquitin Proteasome System as a Potential Target for the Treatment of Neurodegenerative Diseases. <i>Current Pharmaceutical Design</i> , 2013, 19, 3305-3314.	1.9	29
62	Regulation of autophagic flux by CHIP. <i>Neuroscience Bulletin</i> , 2015, 31, 469-479.	2.9	27
63	Hax-1 is rapidly degraded by the proteasome dependent on its PEST sequence. <i>BMC Cell Biology</i> , 2012, 13, 20.	3.0	25
64	Nucleocytoplasmic Shuttling of Dysbindin-1, a Schizophrenia-related Protein, Regulates Synapsin I Expression. <i>Journal of Biological Chemistry</i> , 2010, 285, 38630-38640.	3.4	24
65	The Protease Omi Cleaves the Mitogen-Activated Protein Kinase Kinase MEK1 to Inhibit Microglial Activation. <i>Science Signaling</i> , 2012, 5, ra61.	3.6	24
66	Endogenous level of TIGAR in brain is associated with vulnerability of neurons to ischemic injury. <i>Neuroscience Bulletin</i> , 2015, 31, 527-540.	2.9	24
67	TARDBP/TDP-43 regulates autophagy in both MTORC1-dependent and MTORC1-independent manners. <i>Autophagy</i> , 2016, 12, 707-708.	9.1	24
68	P7C3 Inhibits LPS-Induced Microglial Activation to Protect Dopaminergic Neurons Against Inflammatory Factor-Induced Cell Death in vitro and in vivo. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 400.	3.7	24
69	Poly-PR in C9ORF72-Related Amyotrophic Lateral Sclerosis/Frontotemporal Dementia Causes Neurotoxicity by Clathrin-Dependent Endocytosis. <i>Neuroscience Bulletin</i> , 2019, 35, 889-900.	2.9	24
70	Statistics and network-based approaches to identify molecular mechanisms that drive the progression of breast cancer. <i>Computers in Biology and Medicine</i> , 2022, 145, 105508.	7.0	24
71	Parkin represses 6-hydroxydopamine-induced apoptosis via stabilizing scaffold protein p62 in PC12 cells. <i>Acta Pharmacologica Sinica</i> , 2015, 36, 1300-1307.	6.1	23
72	Dependence of PINK1 accumulation on mitochondrial redox system. <i>Aging Cell</i> , 2020, 19, e13211.	6.7	23

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73	Inhibition of phosphodiesterase10A attenuates morphine-induced conditioned place preference. <i>Molecular Brain</i> , 2014, 7, 70.	2.6	22
74	Imbalance of Lysine Acetylation Contributes to the Pathogenesis of Parkinson's Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7182.	4.1	21
75	Casein kinase 2 interacts with and phosphorylates ataxin-3. <i>Neuroscience Bulletin</i> , 2008, 24, 271-277.	2.9	20
76	p62/Sequestosome 1 Regulates Aggresome Formation of Pathogenic Ataxin-3 with Expanded Polyglutamine. <i>International Journal of Molecular Sciences</i> , 2014, 15, 14997-15010.	4.1	20
77	MiR-4465 directly targets PTEN to inhibit AKT/mTOR pathway-mediated autophagy. <i>Cell Stress and Chaperones</i> , 2019, 24, 105-113.	2.9	19
78	DJ-1 inhibits microglial activation and protects dopaminergic neurons in vitro and in vivo through interacting with microglial p65. <i>Cell Death and Disease</i> , 2021, 12, 715.	6.3	19
79	Protease Omi facilitates neurite outgrowth in mouse neuroblastoma N2a cells by cleaving transcription factor E2F1. <i>Acta Pharmacologica Sinica</i> , 2015, 36, 966-975.	6.1	18
80	Tyrosine hydroxylase down-regulation after loss of Abelson helper integration site 1 (AHI1) promotes depression via the circadian clock pathway in mice. <i>Journal of Biological Chemistry</i> , 2018, 293, 5090-5101.	3.4	18
81	Loss of VAPB Regulates Autophagy in a Beclin 1-Dependent Manner. <i>Neuroscience Bulletin</i> , 2018, 34, 1037-1046.	2.9	18
82	p45, an ATPase subunit of the 19S proteasome, targets the polyglutamine disease protein ataxin-3 to the proteasome. <i>Journal of Neurochemistry</i> , 2007, 101, 1651-1661.	3.9	17
83	H1-antihistamines induce vacuolation in astrocytes through macroautophagy. <i>Toxicology and Applied Pharmacology</i> , 2012, 260, 115-123.	2.8	16
84	Ataxin-3 protects cells against H2O2-induced oxidative stress by enhancing the interaction between Bcl-XL and Bax. <i>Neuroscience</i> , 2013, 243, 14-21.	2.3	16
85	Folliculin, a tumor suppressor associated with Birt-Hogg-Dub (BHD) syndrome, is a novel modifier of TDP-43 cytoplasmic translocation and aggregation. <i>Human Molecular Genetics</i> , 2016, 25, 83-96.	2.9	16
86	Î±-Synuclein aggregation and transmission in Parkinson's disease: a link to mitochondria and lysosome. <i>Science China Life Sciences</i> , 2020, 63, 1850-1859.	4.9	16
87	Naja naja atra venom ameliorates pulmonary fibrosis by inhibiting inflammatory response and oxidative stress. <i>BMC Complementary and Alternative Medicine</i> , 2014, 14, 461.	3.7	15
88	Bcl-2 Decreases the Affinity of SQSTM1/p62 to Poly-Ubiquitin Chains and Suppresses the Aggregation of Misfolded Protein in Neurodegenerative Disease. <i>Molecular Neurobiology</i> , 2015, 52, 1180-1189.	4.0	15
89	DJ-1 regulates tyrosine hydroxylase expression through CaMKK β /CaMKIV/CREB1 pathway in vitro and in vivo. <i>Journal of Cellular Physiology</i> , 2020, 235, 869-879.	4.1	13
90	Autophagy and Ubiquitin-Proteasome System Coordinate to Regulate the Protein Quality Control of Neurodegenerative Disease-Associated DCTN1. <i>Neurotoxicity Research</i> , 2020, 37, 48-57.	2.7	13

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91	miR-34a-5p regulates PINK1-mediated mitophagy via multiple modes. <i>Life Sciences</i> , 2021, 276, 119415.	4.3	13
92	Autophagy and Lysosome Storage Disorders. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1207, 87-102.	1.6	13
93	Familial Parkinson's Disease-Associated L166P Mutant DJ-1 is Cleaved by Mitochondrial Serine Protease Omi/HtrA2. <i>Neuroscience Bulletin</i> , 2017, 33, 685-694.	2.9	12
94	Cereblon suppresses the formation of pathogenic protein aggregates in a p62-dependent manner. <i>Human Molecular Genetics</i> , 2018, 27, 667-678.	2.9	12
95	Dendritic cell nuclear protein-1 regulates melatonin biosynthesis by binding to BMAL1 and inhibiting the transcription of N-acetyltransferase in C6 cells. <i>Acta Pharmacologica Sinica</i> , 2018, 39, 597-606.	6.1	12
96	Dendritic cell nuclear protein-1, a novel depression-related protein, upregulates corticotropin-releasing hormone expression. <i>Brain</i> , 2010, 133, 3069-3079.	7.6	11
97	The Schizophrenia-Related Protein Dysbindin-1A Is Degraded and Facilitates NF-Kappa B Activity in the Nucleus. <i>PLoS ONE</i> , 2015, 10, e0132639.	2.5	11
98	RRx-001 Exerts Neuroprotection Against LPS-Induced Microglia Activation and Neuroinflammation Through Disturbing the TLR4 Pathway. <i>Frontiers in Pharmacology</i> , 2022, 13, 889383.	3.5	11
99	Phosphodiesterase 10A inhibition attenuates sleep deprivation-induced deficits in long-term fear memory. <i>Neuroscience Letters</i> , 2016, 635, 44-50.	2.1	10
100	PolyQ-expanded ataxin-3 interacts with full-length ataxin-3 in a polyQ length-dependent manner. <i>Neuroscience Bulletin</i> , 2008, 24, 201-208.	2.9	8
101	The BAG2 and BAG5 proteins inhibit the ubiquitination of pathogenic ataxin3-80Q. <i>International Journal of Neuroscience</i> , 2015, 125, 390-394.	1.6	8
102	A strategy to find novel candidate anti-Alzheimer's disease drugs by constructing interaction networks between drug targets and natural compounds in medical plants. <i>PeerJ</i> , 2018, 6, e4756.	2.0	8
103	Loss of TDP-43 Inhibits Amyotrophic Lateral Sclerosis-Linked Mutant SOD1 Aggresome Formation in an HDAC6-Dependent Manner. <i>Journal of Alzheimer's Disease</i> , 2015, 45, 373-386.	2.6	7
104	Sensitive detection of caspase-3 enzymatic activities and inhibitor screening by mass spectrometry with dual maleimide labelling quantitation. <i>Analyst</i> , 2019, 144, 6751-6759.	3.5	6
105	Autophagy and Polyglutamine Disease. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1207, 149-161.	1.6	6
106	Serum Response Factor Promotes Dopaminergic Neuron Survival via Activation of Beclin 1-Dependent Autophagy. <i>Neuroscience</i> , 2018, 371, 288-295.	2.3	5
107	Inhibition of the PINK1-Parkin Pathway Enhances the Lethality of Sorafenib and Regorafenib in Hepatocellular Carcinoma. <i>Frontiers in Pharmacology</i> , 2022, 13, 851832.	3.5	5
108	Role of the C9ORF72 Gene in the Pathogenesis of Amyotrophic Lateral Sclerosis and Frontotemporal Dementia. <i>Neuroscience Bulletin</i> , 2020, 36, 1057-1070.	2.9	4

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109	E3 ubiquitin ligase HRD1 modulates the circadian clock through regulation of BMAL1 stability. <i>Experimental and Therapeutic Medicine</i> , 2020, 20, 2639-2648.	1.8	4
110	A Novel Modulator of STIM2-Dependent Store-Operated Ca ²⁺ Channel Activity. <i>Acta Naturae</i> , 2021, 13, 140-146.	1.7	2
111	Autophagy and Prion Disease. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1207, 75-85.	1.6	2
112	Dominant Effect of Full-Length Presenilin-1 on the Enhancement of Store-Operated Calcium Entry. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2019, 13, 253-259.	0.6	1
113	Editorial: Role of Glial Cells of the Central and Peripheral Nervous System in the Pathogenesis of Neurodegenerative Disorders. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, .	3.4	1
114	HuR Affects the Radiosensitivity of Esophageal Cancer by Regulating the EMT-Related Protein Snail. <i>Frontiers in Oncology</i> , 0, 12, .	2.8	1
115	The role of DJ-1 in anti-apoptosis. <i>Molecular Neurodegeneration</i> , 2012, 7, L16.	10.8	0
116	Mitochondrial Biogenesis Involved in Neurodegeneration and Aging. <i>Gene and Gene Editing</i> , 2015, 1, 103-110.	0.0	0