

Jianhua Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3414867/publications.pdf>

Version: 2024-02-01

112
papers

16,772
citations

50566

48
h-index

34195

103
g-index

113
all docs

113
docs citations

113
times ranked

34849
citing authors

#	ARTICLE	IF	CITATIONS
1	Dendritic cell PIK3C3/VPS34 controls the pathogenicity of CNS autoimmunity independently of LC3-associated phagocytosis. <i>Autophagy</i> , 2022, 18, 161-170.	4.3	6
2	Targeting whole body metabolism and mitochondrial bioenergetics in the drug development for Alzheimer's disease. <i>Acta Pharmaceutica Sinica B</i> , 2022, 12, 511-531.	5.7	26
3	Optimization of measurement of mitochondrial electron transport activity in postmortem human brain samples and measurement of susceptibility to rotenone and 4-hydroxynonenal inhibition. <i>Redox Biology</i> , 2022, 50, 102241.	3.9	4
4	Differential Effects of 2-Deoxyglucose and Glucose Deprivation on 4-Hydroxynonenal Dependent Mitochondrial Dysfunction in Primary Neurons. <i>Frontiers in Aging</i> , 2022, 3, .	1.2	2
5	Acute inhibition of OGA sex-dependently alters the networks associated with bioenergetics, autophagy, and neurodegeneration. <i>Molecular Brain</i> , 2022, 15, 22.	1.3	5
6	Pik3c3 deficiency in myeloid cells imparts partial resistance to experimental autoimmune encephalomyelitis associated with reduced IL-1 β production. <i>Cellular and Molecular Immunology</i> , 2021, 18, 2024-2039.	4.8	12
7	Autophagy-related protein PIK3C3/VPS34 controls T cell metabolism and function. <i>Autophagy</i> , 2021, 17, 1193-1204.	4.3	44
8	Role of O-linked N-acetylglucosamine protein modification in cellular (patho)physiology. <i>Physiological Reviews</i> , 2021, 101, 427-493.	13.1	142
9	Role of O-linked N-acetylglucosamine (O-GlcNAc) modification of proteins in diabetic cardiovascular complications. <i>Current Opinion in Pharmacology</i> , 2021, 57, 1-12.	1.7	30
10	New Insights Into the Biology of Protein O-GlcNAcylation: Approaches and Observations. <i>Frontiers in Aging</i> , 2021, 1, .	1.2	17
11	Novel dopamine receptor 3 antagonists inhibit the growth of primary and temozolomide resistant glioblastoma cells. <i>PLoS ONE</i> , 2021, 16, e0250649.	1.1	4
12	University of Alabama at Birmingham Nathan Shock Center: comparative energetics of aging. <i>GeroScience</i> , 2021, 43, 2149-2160.	2.1	2
13	ZKSCAN3 in severe bacterial lung infection and sepsis-induced immunosuppression. <i>Laboratory Investigation</i> , 2021, 101, 1467-1474.	1.7	8
14	Defining the Dynamic Regulation of O-GlcNAc Proteome in the Mouse Cortex--the O-GlcNAcylation of Synaptic and Trafficking Proteins Related to Neurodegenerative Diseases. <i>Frontiers in Aging</i> , 2021, 2, .	1.2	10
15	Fasting drives the metabolic, molecular and geroprotective effects of a calorie-restricted diet in mice. <i>Nature Metabolism</i> , 2021, 3, 1327-1341.	5.1	84
16	Metabolic derangement in polycystic kidney disease mouse models is ameliorated by mitochondrial-targeted antioxidants. <i>Communications Biology</i> , 2021, 4, 1200.	2.0	16
17	Myeloid Fbxw7 Prevents Pulmonary Fibrosis by Suppressing TGF- β Production. <i>Frontiers in Immunology</i> , 2021, 12, 760138.	2.2	11
18	The Identification of a Novel Calcium-Dependent Link Between NAD ⁺ and Glucose Deprivation-Induced Increases in Protein O-GlcNAcylation and ER Stress. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 780865.	1.6	3

#	ARTICLE	IF	CITATIONS
19	Circadian Regulation of Cardiac Physiology: Rhythms That Keep the Heart Beating. Annual Review of Physiology, 2020, 82, 79-101.	5.6	33
20	Differential effects of REV-ERB α/β agonism on cardiac gene expression, metabolism, and contractile function in a mouse model of circadian disruption. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 318, H1487-H1508.	1.5	29
21	Mitochondrial damage and senescence phenotype of cells derived from a novel frataxin G127V point mutation mouse model of Friedreich's ataxia. DMM Disease Models and Mechanisms, 2020, 13, .	1.2	10
22	Nuclear receptor binding factor 2 (NRBF2) is required for learning and memory. Laboratory Investigation, 2020, 100, 1238-1251.	1.7	8
23	Role and Mechanisms of Mitophagy in Liver Diseases. Cells, 2020, 9, 837.	1.8	132
24	Reprint of: Role of O-linked N-acetylglucosamine (O-GlcNAc) modification of proteins in diabetic cardiovascular complications. Current Opinion in Pharmacology, 2020, 54, 209-220.	1.7	6
25	MitoQ regulates redox-related noncoding RNAs to preserve mitochondrial network integrity in pressure-overload heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 318, H682-H695.	1.5	33
26	Bioenergetics and translational metabolism: implications for genetics, physiology and precision medicine. Biological Chemistry, 2019, 401, 3-29.	1.2	41
27	GNAI1 and GNAI3 Reduce Colitis-Associated Tumorigenesis in Mice by Blocking IL6 Signaling and Down-regulating Expression of GNAI2. Gastroenterology, 2019, 156, 2297-2312.	0.6	59
28	Acute increases in O-GlcNAc indirectly impair mitochondrial bioenergetics through dysregulation of LonP1-mediated mitochondrial protein complex turnover. American Journal of Physiology - Cell Physiology, 2019, 316, C862-C875.	2.1	16
29	Screening and Identification of Linear B Cell Epitopes Within the Nonstructural Proteins of Enterovirus 71. Viral Immunology, 2019, 32, 84-88.	0.6	5
30	Methods for assessing mitochondrial quality control mechanisms and cellular consequences in cell culture. Redox Biology, 2018, 17, 59-69.	3.9	37
31	Temporal partitioning of adaptive responses of the murine heart to fasting. Life Sciences, 2018, 197, 30-39.	2.0	16
32	Mitochondrial function and autophagy: integrating proteotoxic, redox, and metabolic stress in Parkinson's disease. Journal of Neurochemistry, 2018, 144, 691-709.	2.1	58
33	Glutaminolysis is required for transforming growth factor- β 1-induced myofibroblast differentiation and activation. Journal of Biological Chemistry, 2018, 293, 1218-1228.	1.6	126
34	The lysosomal enzyme alpha-Galactosidase A is deficient in Parkinson's disease brain in association with the pathologic accumulation of alpha-synuclein. Neurobiology of Disease, 2018, 110, 68-81.	2.1	38
35	DDIS-04. COMPOUNDS IDENTIFIED BY STRUCTURE BASED VIRTUAL SCREENING DECREASE GBM BTIC GROWTH AND GLUCOSE UPTAKE. Neuro-Oncology, 2018, 20, vi69-vi70.	0.6	0
36	Exosomal transfer of mitochondria from airway myeloid-derived regulatory cells to T cells. Redox Biology, 2018, 18, 54-64.	3.9	130

#	ARTICLE	IF	CITATIONS
37	Identification of Compounds That Decrease Glioblastoma Growth and Glucose Uptake <i>in Vitro</i> . ACS Chemical Biology, 2018, 13, 2048-2057.	1.6	24
38	Autophagy and the redox connection: Virtual collection Vol 2. Redox Biology, 2017, 11, 620-621.	3.9	0
39	Trehalose does not improve neuronal survival on exposure to alpha-synuclein pre-formed fibrils. Redox Biology, 2017, 11, 429-437.	3.9	33
40	Haplodeficiency of <i>Cathepsin D</i> does not affect cerebral amyloidosis and autophagy in <i>APP</i> / <i>PS</i> 1 transgenic mice. Journal of Neurochemistry, 2017, 142, 297-304.	2.1	13
41	Oxidative stress and neurodegeneration. Brain Research Bulletin, 2017, 133, 1-3.	1.4	9
42	Inhibition of autophagy with bafilomycin and chloroquine decreases mitochondrial quality and bioenergetic function in primary neurons. Redox Biology, 2017, 11, 73-81.	3.9	188
43	Regulation of autophagy, mitochondrial dynamics, and cellular bioenergetics by 4-hydroxynonenal in primary neurons. Autophagy, 2017, 13, 1828-1840.	4.3	57
44	Autophagy-related protein Vps34 controls the homeostasis and function of antigen cross-presenting CD8 ⁺ dendritic cells. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6371-E6380.	3.3	55
45	Genetic disruption of the cardiomyocyte circadian clock differentially influences insulin-mediated processes in the heart. Journal of Molecular and Cellular Cardiology, 2017, 110, 80-95.	0.9	52
46	Myocardial Upregulation of Cathepsin D by Ischemic Heart Disease Promotes Autophagic Flux and Protects Against Cardiac Remodeling and Heart Failure. Circulation: Heart Failure, 2017, 10, .	1.6	47
47	Immunoreactivity Analysis of the Nonstructural Proteins of Human Enterovirus 71. Viral Immunology, 2017, 30, 106-110.	0.6	4
48	O-GlcNAcylation and neurodegeneration. Brain Research Bulletin, 2017, 133, 80-87.	1.4	96
49	O-GlcNAc regulation of autophagy and α -synuclein homeostasis; implications for Parkinson's disease. Molecular Brain, 2017, 10, 32.	1.3	67
50	Generation and Characterization of a Novel Mouse Line, <i>Keratocan-rtTA</i> (<i>Kera</i> ^{sup} <i>RT</i> ^{sup}), for Corneal Stroma and Tendon Research. , 2017, 58, 4800.		17
51	The Role of Autophagy, Mitophagy and Lysosomal Functions in Modulating Bioenergetics and Survival in the Context of Redox and Proteotoxic Damage: Implications for Neurodegenerative Diseases. , 2016, 7, 150.		75
52	Metabolic, autophagic, and mitophagic activities in cancer initiation and progression. Biomedical Journal, 2016, 39, 98-106.	1.4	23
53	Differential regulation of autophagy and mitophagy in pulmonary diseases. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 311, L433-L452.	1.3	97
54	Redox biology and the interface between bioenergetics, autophagy and circadian control of metabolism. Free Radical Biology and Medicine, 2016, 100, 94-107.	1.3	44

#	ARTICLE	IF	CITATIONS
55	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
56	Role of asparagine at position 562 in dimerization and immunogenicity of the hepatitis E virus capsid protein. <i>Infection, Genetics and Evolution</i> , 2016, 37, 99-107.	1.0	24
57	Novel Mechanisms for the Antifibrotic Action of Nintedanib. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2016, 54, 51-59.	1.4	163
58	KEAP1â€œNRF2 signalling and autophagy in protection against oxidative and reductive proteotoxicity. <i>Biochemical Journal</i> , 2015, 469, 347-355.	1.7	160
59	Teaching the basics of autophagy and mitophagy to redox biologistsâ€”Mechanisms and experimental approaches. <i>Redox Biology</i> , 2015, 4, 242-259.	3.9	103
60	Upregulation of autophagy decreases chlorine-induced mitochondrial injury and lung inflammation. <i>Free Radical Biology and Medicine</i> , 2015, 85, 83-94.	1.3	51
61	Regulation of autophagy by protein post-translational modification. <i>Laboratory Investigation</i> , 2015, 95, 14-25.	1.7	130
62	The role of GABARAPL1/GEC1 in autophagic flux and mitochondrial quality control in MDA-MB-436 breast cancer cells. <i>Autophagy</i> , 2014, 10, 986-1003.	4.3	86
63	The Bioenergetic Health Index: a new concept in mitochondrial translational research. <i>Clinical Science</i> , 2014, 127, 367-373.	1.8	266
64	Aging and energeticsâ€™â€™ Top 40â€™â€™ future research opportunities 2010-2013. <i>F1000Research</i> , 2014, 3, 219. 0.8		17
65	Overâ€™expression of an inactive mutant cathepsin D increases endogenous alphaâ€™synuclein and cathepsin B activity in <sc>SH</sc>â€™<sc>SY</sc>5Y cells. <i>Journal of Neurochemistry</i> , 2014, 128, 950-961.	2.1	37
66	Redox regulation of antioxidants, autophagy, and the response to stress: Implications for electrophile therapeutics. <i>Free Radical Biology and Medicine</i> , 2014, 71, 196-207.	1.3	207
67	SCCA1/SERPINB3 Promotes Oncogenesis and Epithelialâ€™Mesenchymal Transition via the Unfolded Protein Response and IL6 Signaling. <i>Cancer Research</i> , 2014, 74, 6318-6329.	0.4	62
68	Identification of specific antigenic epitope at N-terminal segment of enterovirus 71 (EV-71) VP1 protein and characterization of its use in recombinant form for early diagnosis of EV-71 infection. <i>Virus Research</i> , 2014, 189, 248-253.	1.1	8
69	Bioenergetic adaptation in response to autophagy regulators during rotenone exposure. <i>Journal of Neurochemistry</i> , 2014, 131, 625-633.	2.1	38
70	Autophagy as an essential cellular antioxidant pathway in neurodegenerative disease. <i>Redox Biology</i> , 2014, 2, 82-90.	3.9	303
71	Mitophagy mechanisms and role in human diseases. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 53, 127-133.	1.2	118
72	Autophagy and mitophagy in cellular damage control. <i>Redox Biology</i> , 2013, 1, 19-23.	3.9	173

#	ARTICLE	IF	CITATIONS
73	Inhibition of autophagy and glycolysis by nitric oxide during hypoxia reoxygenation impairs cellular bioenergetics and promotes cell death in primary neurons. <i>Free Radical Biology and Medicine</i> , 2013, 65, 1215-1228.	1.3	40
74	Inhibition of glycolysis attenuates 4-hydroxynonenal-dependent autophagy and exacerbates apoptosis in differentiated SH-SY5Y neuroblastoma cells. <i>Autophagy</i> , 2013, 9, 1996-2008.	4.3	45
75	Dopamine and its metabolites in cathepsin D heterozygous mice before and after MPTP administration. <i>Neuroscience Letters</i> , 2013, 538, 3-8.	1.0	10
76	Cellular metabolic and autophagic pathways: Traffic control by redox signaling. <i>Free Radical Biology and Medicine</i> , 2013, 63, 207-221.	1.3	284
77	Dysfunctional mitochondrial bioenergetics and oxidative stress in Akita ^{+/Ins2} -derived β 2-cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 305, E585-E599.	1.8	39
78	Convergent mechanisms for dysregulation of mitochondrial quality control in metabolic disease: implications for mitochondrial therapeutics. <i>Biochemical Society Transactions</i> , 2013, 41, 127-133.	1.6	46
79	Bioenergetic and autophagic control by Sirt3 in response to nutrient deprivation in mouse embryonic fibroblasts. <i>Biochemical Journal</i> , 2013, 454, 249-257.	1.7	64
80	Impaired Autophagy, Defective T Cell Homeostasis, and a Wasting Syndrome in Mice with a T Cell-Specific Deletion of Vps34. <i>Journal of Immunology</i> , 2013, 190, 5086-5101.	0.4	128
81	Autophagy in neuronal bioenergetics and survival. <i>FASEB Journal</i> , 2013, 27, 1086.3.	0.2	0
82	Hemin causes mitochondrial dysfunction in endothelial cells through promoting lipid peroxidation: the protective role of autophagy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H1394-H1409.	1.5	130
83	Mammalian PIK3C3/VPS34. <i>Autophagy</i> , 2012, 8, 707-708.	4.3	24
84	Class III PI3K Vps34 plays an essential role in autophagy and in heart and liver function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2003-2008.	3.3	327
85	Autophagy, mitochondria and oxidative stress: cross-talk and redox signalling. <i>Biochemical Journal</i> , 2012, 441, 523-540.	1.7	1,243
86	Antigenic characteristics of the complete and truncated capsid protein VP1 of enterovirus 71. <i>Virus Research</i> , 2012, 167, 337-342.	1.1	20
87	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	4.3	3,122
88	Integration of cellular bioenergetics with mitochondrial quality control and autophagy. <i>Biological Chemistry</i> , 2012, 393, 1485-1512.	1.2	376
89	Distinct Effects of Rotenone, 1-methyl-4-phenylpyridinium and 6-hydroxydopamine on Cellular Bioenergetics and Cell Death. <i>PLoS ONE</i> , 2012, 7, e44610.	1.1	115
90	D295N Mutant Cathepsin D Exerts a Dominant Negative Effect In Vitro by Promoting α -Synuclein Accumulation. <i>FASEB Journal</i> , 2012, 26, 1035.15.	0.2	0

#	ARTICLE	IF	CITATIONS
91	Assessing bioenergetic function in response to oxidative stress by metabolic profiling. <i>Free Radical Biology and Medicine</i> , 2011, 51, 1621-1635.	1.3	372
92	Differentiation of SH-SY5Y cells to a neuronal phenotype changes cellular bioenergetics and the response to oxidative stress. <i>Free Radical Biology and Medicine</i> , 2011, 51, 2007-2017.	1.3	160
93	Systems biology of the autophagy-lysosomal pathway. <i>Autophagy</i> , 2011, 7, 477-489.	4.3	116
94	Lysosomal function in macromolecular homeostasis and bioenergetics in Parkinson's disease. <i>Molecular Neurodegeneration</i> , 2010, 5, 14.	4.4	49
95	Inhibition of lysosomal functions reduces proteasomal activity. <i>Neuroscience Letters</i> , 2009, 456, 15-19.	1.0	51
96	Lysosomal enzyme cathepsin D protects against alpha-synuclein aggregation and toxicity. <i>Molecular Brain</i> , 2008, 1, 17.	1.3	212
97	Lysosomal Dysfunction Promotes Autophagic Stress and NPC Death. <i>FASEB Journal</i> , 2008, 22, 1121.10.	0.2	0
98	Kainic acid induces early and transient autophagic stress in mouse hippocampus. <i>Neuroscience Letters</i> , 2007, 414, 57-60.	1.0	104
99	c-Fos Facilitates the Acquisition and Extinction of Cocaine-Induced Persistent Changes. <i>Journal of Neuroscience</i> , 2006, 26, 13287-13296.	1.7	137
100	Neural system-enriched gene expression: relationship to biological pathways and neurological diseases. <i>Physiological Genomics</i> , 2004, 18, 167-183.	1.0	15
101	Generating Gene Knockout Mice for Studying Mechanisms Underlying Drug Addiction. , 2003, 79, 351-364.		0
102	Endonuclease G is required for early embryogenesis and normal apoptosis in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 15782-15787.	3.3	84
103	Expression profiles of 109 apoptosis pathway-related genes in 82 mouse tissues and experimental conditions. <i>Biochemical and Biophysical Research Communications</i> , 2002, 297, 537-544.	1.0	7
104	Apoptotic DNA fragmentation and tissue homeostasis. <i>Trends in Cell Biology</i> , 2002, 12, 84-89.	3.6	129
105	Hippocampal expression of c-fos is not essential for spatial learning. <i>Synapse</i> , 2002, 46, 91-99.	0.6	23
106	c-fos regulates neuronal excitability and survival. <i>Nature Genetics</i> , 2002, 30, 416-420.	9.4	263
107	Identification of Chronic Cocaine-Induced Gene Expression Through Dopamine D1 Receptors by Using cDNA Microarrays. <i>Annals of the New York Academy of Sciences</i> , 2002, 965, 1-9.	1.8	12
108	Toward a Molecular Understanding of Psychostimulant Actions Using Genetically Engineered Dopamine Receptor Knockout Mice as Model Systems. <i>Journal of Addictive Diseases</i> , 2001, 20, 7-18.	0.8	76

#	ARTICLE	IF	CITATIONS
109	Probing the Role of the Dopamine D1 Receptor in Psychostimulant Addiction. Annals of the New York Academy of Sciences, 2000, 914, 13-21.	1.8	13
110	DNA fragmentation factor 45 deficient mice exhibit enhanced spatial learning and memory compared to wild-type control mice. Brain Research, 2000, 867, 70-79.	1.1	30
111	Behavioral responses to cocaine and amphetamine administration in mice lacking the dopamine D1 receptor. Brain Research, 2000, 852, 198-207.	1.1	142
112	Mast cell tryptase does not alter matrix metalloproteinase expression in human dermal fibroblasts: Further evidence that proteolytically-active tryptase is a potent fibrogenic factor. , 1999, 181, 312-318.		13