

# Jian-Gang Long

## List of Publications by Year in descending order

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91  
papers

4,079  
citations

87723

38  
h-index

128067

60  
g-index

91  
all docs

91  
docs citations

91  
times ranked

6883  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chronic systemic D-galactose exposure induces memory loss, neurodegeneration, and oxidative damage in mice: Protective effects of R- $\alpha$ -lipoic acid. <i>Journal of Neuroscience Research</i> , 2006, 83, 1584-1590.	1.3	339
2	SIRT3/SOD2 maintains osteoblast differentiation and bone formation by regulating mitochondrial stress. <i>Cell Death and Differentiation</i> , 2018, 25, 229-240.	5.0	180
3	Hydroxytyrosol prevents diet-induced metabolic syndrome and attenuates mitochondrial abnormalities in obese mice. <i>Free Radical Biology and Medicine</i> , 2014, 67, 396-407.	1.3	151
4	Grape Extract Protects Mitochondria from Oxidative Damage and Improves Locomotor Dysfunction and Extends Lifespan in a <i>Drosophila</i> Parkinson's Disease Model. <i>Rejuvenation Research</i> , 2009, 12, 321-331.	0.9	127
5	Enhanced autophagy plays a cardinal role in mitochondrial dysfunction in type 2 diabetic Goto-Kakizaki (GK) rats: ameliorating effects of (-)-epigallocatechin-3-gallate. <i>Journal of Nutritional Biochemistry</i> , 2012, 23, 716-724.	1.9	113
6	Acrolein is a mitochondrial toxin: Effects on respiratory function and enzyme activities in isolated rat liver mitochondria. <i>Mitochondrion</i> , 2006, 6, 136-142.	1.6	110
7	Mitochondrial Dysfunction in Obesity-Associated Nonalcoholic Fatty Liver Disease: The Protective Effects of Pomegranate with Its Active Component Punicalagin. <i>Antioxidants and Redox Signaling</i> , 2014, 21, 1557-1570.	2.5	104
8	SNARE-mediated membrane fusion in autophagy. <i>Seminars in Cell and Developmental Biology</i> , 2016, 60, 97-104.	2.3	101
9	Hydroxytyrosol improves mitochondrial function and reduces oxidative stress in the brain of <i>db/db</i> mice: role of AMP-activated protein kinase activation. <i>British Journal of Nutrition</i> , 2015, 113, 1667-1676.	1.2	89
10	Genetic Targeting Aromatase in Male Amyloid Precursor Protein Transgenic Mice Down-Regulates $\beta$ -Secretase (BACE1) and Prevents Alzheimer-Like Pathology and Cognitive Impairment. <i>Journal of Neuroscience</i> , 2010, 30, 7326-7334.	1.7	86
11	Malonaldehyde acts as a mitochondrial toxin: Inhibitory effects on respiratory function and enzyme activities in isolated rat liver mitochondria. <i>Life Sciences</i> , 2006, 79, 1466-1472.	2.0	83
12	Neuronal Mitochondrial Toxicity of Malondialdehyde: Inhibitory Effects on Respiratory Function and Enzyme Activities in Rat Brain Mitochondria. <i>Neurochemical Research</i> , 2009, 34, 786-794.	1.6	82
13	Mitochondrial Dysfunction Launches Dexamethasone-Induced Skeletal Muscle Atrophy via AMPK/FOXO3 Signaling. <i>Molecular Pharmaceutics</i> , 2016, 13, 73-84.	2.3	82
14	Mitochondrial Decay in the Brains of Old Rats: Ameliorating Effect of Alpha-Lipoic Acid and Acetyl-L-carnitine. <i>Neurochemical Research</i> , 2009, 34, 755-763.	1.6	78
15	New Evidence of Mitochondria Dysfunction in the Female Alzheimer's Disease Brain: Deficiency of Estrogen Receptor- $\beta$ . <i>Journal of Alzheimer's Disease</i> , 2012, 30, 545-558.	1.2	78
16	Hydroxytyrosol protects retinal pigment epithelial cells from acrolein-induced oxidative stress and mitochondrial dysfunction. <i>Journal of Neurochemistry</i> , 2007, 103, 2690-2700.	2.1	76
17	Punicalagin attenuates palmitate-induced lipotoxicity in HepG2 cells by activating the Keap1-Nrf2 antioxidant defense system. <i>Molecular Nutrition and Food Research</i> , 2016, 60, 1139-1149.	1.5	69
18	Evidence for association of mitochondrial metabolism alteration with lipid accumulation in aging rats. <i>Experimental Gerontology</i> , 2014, 56, 3-12.	1.2	66

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19	Real-time tracking mitochondrial dynamic remodeling with two-photon phosphorescent iridium (III) complexes. <i>Biomaterials</i> , 2016, 83, 321-331.	5.7	66
20	Hydroxytyrosol mildly improve cognitive function independent of APP processing in APP/PS1 mice. <i>Molecular Nutrition and Food Research</i> , 2016, 60, 2331-2342.	1.5	65
21	Mitochondrial dysfunction precedes depression of <sc>AMPK</sc>/<sc>AKT</sc> signaling in insulin resistance induced by high glucose in primary cortical neurons. <i>Journal of Neurochemistry</i> , 2016, 137, 701-713.	2.1	65
22	d-Galactose toxicity in mice is associated with mitochondrial dysfunction: protecting effects of mitochondrial nutrient R-alpha-lipoic acid. <i>Biogerontology</i> , 2007, 8, 373-381.	2.0	64
23	Mitochondrial nutrients improve immune dysfunction in the type 2 diabetic Gotoâ€Kakizaki rats. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 701-711.	1.6	64
24	Intrinsic and membrane-facilitated Î±-synuclein oligomerization revealed by label-free detection through solid-state nanopores. <i>Scientific Reports</i> , 2016, 6, 20776.	1.6	62
25	Central and Peripheral Metabolic Defects Contribute to the Pathogenesis of Alzheimer's Disease: Targeting Mitochondria for Diagnosis and Prevention. <i>Antioxidants and Redox Signaling</i> , 2020, 32, 1188-1236.	2.5	61
26	Compromised mitochondrial remodeling in compensatory hypertrophied myocardium of spontaneously hypertensive rat. <i>Cardiovascular Pathology</i> , 2014, 23, 101-106.	0.7	60
27	Hydroxytyrosol Promotes Superoxide Production and Defects in Autophagy Leading to Anti-proliferation and Apoptosis on Human Prostate Cancer Cells. <i>Current Cancer Drug Targets</i> , 2013, 13, 625-639.	0.8	56
28	Mitochondrial accumulation under oxidative stress is due to defects in autophagy. <i>Journal of Cellular Biochemistry</i> , 2013, 114, 212-219.	1.2	52
29	A mitochondria-targeting hetero-binuclear Ir(<sc>iii</sc>)-Pt(<sc>ii</sc>) complex induces necrosis in cisplatin-resistant tumor cells. <i>Chemical Communications</i> , 2018, 54, 6268-6271.	2.2	51
30	Skp2 dictates cell cycle-dependent metabolic oscillation between glycolysis and TCA cycle. <i>Cell Research</i> , 2021, 31, 80-93.	5.7	51
31	An improved spectrophotometric method for a more specific and accurate assay of mitochondrial complex III activity. <i>Clinica Chimica Acta</i> , 2008, 395, 38-41.	0.5	49
32	AMPK activation prevents prenatal stress-induced cognitive impairment: Modulation of mitochondrial content and oxidative stress. <i>Free Radical Biology and Medicine</i> , 2014, 75, 156-166.	1.3	48
33	Activation of Erk and p53 regulates copper oxide nanoparticle-induced cytotoxicity in keratinocytes and fibroblasts. <i>International Journal of Nanomedicine</i> , 2014, 9, 4763.	3.3	46
34	One-pot synthesis of highly cross-linked fluorescent polyphosphazene nanoparticles for cell imaging. <i>Polymer Chemistry</i> , 2015, 6, 3155-3163.	1.9	46
35	Reloading functionally ameliorates disuse-induced muscle atrophy by reversing mitochondrial dysfunction, and similar benefits are gained by administering a combination of mitochondrial nutrients. <i>Free Radical Biology and Medicine</i> , 2014, 69, 116-128.	1.3	44
36	Depressed mitochondrial biogenesis and dynamic remodeling in mouse tibialis anterior and gastrocnemius induced by 4â€week hindlimb unloading. <i>IUBMB Life</i> , 2012, 64, 901-910.	1.5	41

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37	Superparamagnetic iron oxide nanoparticles exacerbate the risks of reactive oxygen species-mediated external stresses. <i>Archives of Toxicology</i> , 2015, 89, 357-369.	1.9	41
38	Phosphatase and tensin homolog $\alpha$ -induced putative kinase 1 and Parkin in diabetic heart: Role of mitophagy. <i>Journal of Diabetes Investigation</i> , 2015, 6, 250-255.	1.1	39
39	Anti-convulsant Effect and Mechanism of <i>Astragalus mongholicus</i> Extract In Vitro and In Vivo: Protection Against Oxidative Damage and Mitochondrial Dysfunction. <i>Neurochemical Research</i> , 2010, 35, 33-41.	1.6	38
40	Cardioprotective effect of total paeony glycosides against isoprenaline-induced myocardial ischemia in rats. <i>Phytomedicine</i> , 2012, 19, 672-676.	2.3	37
41	Acetylated FoxO1 mediates high-glucose induced autophagy in H9c2 cardiomyoblasts: Regulation by a polyphenol -( $\alpha$ )-epigallocatechin-3-gallate. <i>Metabolism: Clinical and Experimental</i> , 2014, 63, 1314-1323.	1.5	36
42	A mix of apple pomace polysaccharide improves mitochondrial function and reduces oxidative stress in the liver of high-fat diet-induced obese mice. <i>Molecular Nutrition and Food Research</i> , 2017, 61, 1600433.	1.5	35
43	D-Galactose Induces a Mitochondrial Complex I Deficiency in Mouse Skeletal Muscle: Potential Benefits of Nutrient Combination in Ameliorating Muscle Impairment. <i>Journal of Medicinal Food</i> , 2014, 17, 357-364.	0.8	34
44	Targeting SCF E3 Ligases for Cancer Therapies. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1217, 123-146.	0.8	34
45	4-Methylene-2-octyl-5-oxotetrahydrofuran-3-carboxylic Acid (C75), an Inhibitor of Fatty-acid Synthase, Suppresses the Mitochondrial Fatty Acid Synthesis Pathway and Impairs Mitochondrial Function. <i>Journal of Biological Chemistry</i> , 2014, 289, 17184-17194.	1.6	33
46	Molecular Mechanisms for the Coupling of Endocytosis to Exocytosis in Neurons. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 47.	1.4	32
47	Hydrogen-rich water improves cognitive impairment gender-dependently in APP/PS1 mice without affecting A $\beta$ clearance. <i>Free Radical Research</i> , 2018, 52, 1311-1322.	1.5	32
48	Mitochondrial dysfunction in the liver of type 2 diabetic Goto $\alpha$ -Kakizaki rats: improvement by a combination of nutrients. <i>British Journal of Nutrition</i> , 2011, 106, 648-655.	1.2	27
49	Coral calcium hydride prevents hepatic steatosis in high fat diet-induced obese rats: A potent mitochondrial nutrient and phase II enzyme inducer. <i>Biochemical Pharmacology</i> , 2016, 103, 85-97.	2.0	27
50	Stepwise growth of gold coated cancer targeting carbon nanotubes for the precise delivery of doxorubicin combined with photothermal therapy. <i>Journal of Materials Chemistry B</i> , 2017, 5, 1380-1387.	2.9	27
51	Multi-layered tumor-targeting photothermal-doxorubicin releasing nanotubes eradicate tumors <i>in vivo</i> with negligible systemic toxicity. <i>Nanoscale</i> , 2018, 10, 8536-8546.	2.8	26
52	Omega-3 polyunsaturated fatty acids prevent obesity by improving tricarboxylic acid cycle homeostasis. <i>Journal of Nutritional Biochemistry</i> , 2021, 88, 108503.	1.9	26
53	Hydrogen Inhalation is Superior to Mild Hypothermia in Improving Cardiac Function and Neurological Outcome in an Asphyxial Cardiac Arrest Model of Rats. <i>Shock</i> , 2016, 46, 312-318.	1.0	25
54	Comparison of two methods for assaying complex I activity in mitochondria isolated from rat liver, brain and heart. <i>Life Sciences</i> , 2009, 85, 276-280.	2.0	24

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55	Thinned young apple polysaccharide improves hepatic metabolic disorder in high-fat diet-induced obese mice by activating mitochondrial respiratory functions. <i>Journal of Functional Foods</i> , 2017, 33, 396-407.	1.6	24
56	Hypermethylation of Hepatic Mitochondrial <i>ND6</i> Provokes Systemic Insulin Resistance. <i>Advanced Science</i> , 2021, 8, 2004507.	5.6	23
57	An NADH-tetrazolium-coupled sensitive assay for malate dehydrogenase in mitochondria and crude tissue homogenates. <i>Journal of Proteomics</i> , 2006, 68, 101-111.	2.4	22
58	High-Fat-Diet-Induced Weight Gain Ameliorates Bone Loss without Exacerbating A $\beta$ Processing and Cognition in Female APP/PS1 Mice. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 225.	1.8	22
59	Mitochondrial free radical theory of aging: Who moved my premise?. <i>Geriatrics and Gerontology International</i> , 2014, 14, 740-749.	0.7	22
60	Deubiquitinase OTUD6A promotes proliferation of cancer cells via regulating Drp1 stability and mitochondrial fission. <i>Molecular Oncology</i> , 2020, 14, 3169-3183.	2.1	22
61	A common carcinogen benzo[a]pyrene causes p53 overexpression in mouse cervix via DNA damage. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2011, 724, 69-75.	0.9	21
62	Hydroxytyrosol Acetate Improves the Cognitive Function of APP/PS1 Transgenic Mice in ER $\alpha$ -dependent Manner. <i>Molecular Nutrition and Food Research</i> , 2021, 65, e2000797.	1.5	21
63	Mitochondria regulate cardiac contraction through ATP-dependent and independent mechanisms. <i>Free Radical Research</i> , 2018, 52, 1256-1265.	1.5	20
64	Post-translational modifications on mitochondrial metabolic enzymes in cancer. <i>Free Radical Biology and Medicine</i> , 2022, 179, 11-23.	1.3	20
65	A complex dietary supplement augments spatial learning, brain mass, and mitochondrial electron transport chain activity in aging mice. <i>Age</i> , 2013, 35, 23-33.	3.0	19
66	A monocarbonyl analogue of curcumin, 1,5-bis(3-hydroxyphenyl)-1,4-pentadiene-3-one (Ca 37), exhibits potent growth suppressive activity and enhances the inhibitory effect of curcumin on human prostate cancer cells. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2014, 19, 542-553.	2.2	19
67	Dietary amelioration of locomotor, neurotransmitter and mitochondrial aging. <i>Experimental Biology and Medicine</i> , 2010, 235, 66-76.	1.1	18
68	A cigarette component acrolein induces accelerated senescence in human diploid fibroblast IMR-90 cells. <i>Biogerontology</i> , 2013, 14, 503-511.	2.0	17
69	Neurodegenerative Disease Related Proteins Have Negative Effects on SNARE-Mediated Membrane Fusion in Pathological Confirmation. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 66.	1.4	17
70	Mitochondrial decay is involved in BaP-induced cervical damage. <i>Free Radical Biology and Medicine</i> , 2010, 49, 1735-1745.	1.3	16
71	Protection of H9c2 rat cardiomyoblasts against oxidative insults by total paeony glucosides from <i>Radix Paeoniae Rubrae</i> . <i>Phytomedicine</i> , 2013, 21, 20-24.	2.3	16
72	Downregulation of the DNA 5-hydroxymethylcytosine is involved in mitochondrial dysfunction and neuronal impairment in high fat diet-induced diabetic mice. <i>Free Radical Biology and Medicine</i> , 2020, 148, 42-51.	1.3	15

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73	Benzo[a]pyrene Exposure Increases Toxic Biomarkers and Morphological Disorders in Mouse Cervix. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2011, 109, 398-406.	1.2	13
74	Time-restricted feeding alleviates cardiac dysfunction induced by simulated microgravity via restoring cardiac FGF21 signaling. <i>FASEB Journal</i> , 2020, 34, 15180-15196.	0.2	13
75	Determination of Lipoic Acid in Biological Samples with Acetonitrile-Salt Stacking Method in CE. <i>Chromatographia</i> , 2014, 77, 145-150.	0.7	11
76	Parental Genetic Variants, MTHFR 677C>T and MTRR 66A>G, Associated Differently with Fetal Congenital Heart Defect. <i>BioMed Research International</i> , 2017, 2017, 1-7.	0.9	11
77	Htd2 deficiency-associated suppression of $\beta$ -lipoic acid production provokes mitochondrial dysfunction and insulin resistance in adipocytes. <i>Redox Biology</i> , 2021, 41, 101948.	3.9	11
78	Impact of AhR, CYP1A1 and GSTM1 Genetic Polymorphisms on TP53 R273G Mutations in Individuals Exposed to Polycyclic Aromatic Hydrocarbons. <i>Asian Pacific Journal of Cancer Prevention</i> , 2014, 15, 2699-2705.	0.5	11
79	Daphnetin ameliorates $A\beta$ pathogenesis via STAT3/GFAP signaling in an APP/PS1 double-transgenic mouse model of Alzheimer's disease. <i>Pharmacological Research</i> , 2022, 180, 106227.	3.1	11
80	Synaptotagmin-1 is a bidirectional $Ca^{2+}$ sensor for neuronal endocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2111051119.	3.3	9
81	A complex dietary supplement modulates nitrate stress in normal mice and in a new mouse model of nitrate stress and cognitive aging. <i>Mechanisms of Ageing and Development</i> , 2012, 133, 523-529.	2.2	8
82	Early inflammation-associated factors blunt sterol regulatory element-binding proteins-mediated lipogenesis in high-fat diet-fed APP <sup>SWE</sup> /PSEN1 <sup>dE9</sup> mouse model of Alzheimer's disease. <i>Journal of Neurochemistry</i> , 2016, 136, 791-803.	2.1	8
83	Early interleukin-6 enhances hepatic ketogenesis in APP/PSEN1 <sup>dE9</sup> mice via 3-hydroxy-3-methylglutaryl-CoA synthase 2 signaling activation by p38/nuclear factor $\kappa$ B p65. <i>Neurobiology of Aging</i> , 2017, 56, 115-126.	1.5	8
84	Neuroprotective and Preventative Effects of Molecular Hydrogen. <i>Current Pharmaceutical Design</i> , 2021, 27, 585-591.	0.9	8
85	ATG7 regulates hepatic Akt phosphorylation through the cJUN/PTEN pathway in high fat diet-induced metabolic disorder. <i>FASEB Journal</i> , 2019, 33, 14296-14306.	0.2	6
86	Hydrogen medicine: A rising star in gas medicine. <i>Traditional Medicine and Modern Medicine</i> , 2020, 03, 153-161.	0.2	6
87	Hyperglycemia-Associated Oxidative Stress Induces Autophagy. , 2014, , 105-115.		5
88	Endogenously generated amyloid- $\beta$ increases stiffness in human neuroblastoma cells. <i>European Biophysics Journal</i> , 2017, 46, 415-424.	1.2	4
89	Chalcone-Derived Nrf2 Activator Protects Cognitive Function via Maintaining Neuronal Redox Status. <i>Antioxidants</i> , 2021, 10, 1811.	2.2	3
90	Organelle Interaction and Drug Discovery: Towards Correlative Nanoscopy and Molecular Dynamics Simulation. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	1

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91	The Role of Brain Mitochondrial Estrogen Receptor $\beta$ in The Pathogenesis of Female Alzheimer's Disease*. Progress in Biochemistry and Biophysics, 2012, 39, 785-790.	0.3	0