

Zhihui Feng

List of Publications by Year in descending order

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73
papers

3,206
citations

126907

33
h-index

161849

54
g-index

73
all docs

73
docs citations

73
times ranked

5522
citing authors

#	ARTICLE	IF	CITATIONS
1	SIRT3/SOD2 maintains osteoblast differentiation and bone formation by regulating mitochondrial stress. <i>Cell Death and Differentiation</i> , 2018, 25, 229-240.	11.2	180
2	Hydroxytyrosol prevents diet-induced metabolic syndrome and attenuates mitochondrial abnormalities in obese mice. <i>Free Radical Biology and Medicine</i> , 2014, 67, 396-407.	2.9	151
3	Hydroxytyrosol promotes mitochondrial biogenesis and mitochondrial function in 3T3-L1 adipocytes. <i>Journal of Nutritional Biochemistry</i> , 2010, 21, 634-644.	4.2	146
4	Polyhydroxylated fullerene derivative C ₆₀ (OH) ₂₄ prevents mitochondrial dysfunction and oxidative damage in an MPPA-induced cellular model of Parkinson's disease. <i>Journal of Neuroscience Research</i> , 2008, 86, 3622-3634.	2.9	141
5	Hydroxytyrosol protects against oxidative damage by simultaneous activation of mitochondrial biogenesis and phase II detoxifying enzyme systems in retinal pigment epithelial cells. <i>Journal of Nutritional Biochemistry</i> , 2010, 21, 1089-1098.	4.2	140
6	Stimulation of GSH synthesis to prevent oxidative stress-induced apoptosis by hydroxytyrosol in human retinal pigment epithelial cells: activation of Nrf2 and JNK-p62/SQSTM1 pathways. <i>Journal of Nutritional Biochemistry</i> , 2012, 23, 994-1006.	4.2	125
7	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.	4.2	113
8	Î±-Tocopherol is an effective Phase II enzyme inducer: protective effects on acrolein-induced oxidative stress and mitochondrial dysfunction in human retinal pigment epithelial cells. <i>Journal of Nutritional Biochemistry</i> , 2010, 21, 1222-1231.	4.2	107
9	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.	5.4	104
10	Mitochondrial dynamic remodeling in strenuous exercise-induced muscle and mitochondrial dysfunction: Regulatory effects of hydroxytyrosol. <i>Free Radical Biology and Medicine</i> , 2011, 50, 1437-1446.	2.9	92
11	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.	2.3	89
12	Zeaxanthin induces Nrf2-mediated phase II enzymes in protection of cell death. <i>Cell Death and Disease</i> , 2014, 5, e1218-e1218.	6.3	83
13	Maternal Docosahexaenoic Acid Feeding Protects Against Impairment of Learning and Memory and Oxidative Stress in Prenatally Stressed Rats: Possible Role of Neuronal Mitochondria Metabolism. <i>Antioxidants and Redox Signaling</i> , 2012, 16, 275-289.	5.4	81
14	High doses of nicotinamide prevent oxidative mitochondrial dysfunction in a cellular model and improve motor deficit in a <i>Drosophila</i> model of Parkinson's disease. <i>Journal of Neuroscience Research</i> , 2008, 86, 2083-2090.	2.9	76
15	Punicalagin, an active component in pomegranate, ameliorates cardiac mitochondrial impairment in obese rats via AMPK activation. <i>Scientific Reports</i> , 2015, 5, 14014.	3.3	72
16	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.	3.3	69
17	Evidence for association of mitochondrial metabolism alteration with lipid accumulation in aging rats. <i>Experimental Gerontology</i> , 2014, 56, 3-12.	2.8	66
18	Maternal hydroxytyrosol administration improves neurogenesis and cognitive function in prenatally stressed offspring. <i>Journal of Nutritional Biochemistry</i> , 2015, 26, 190-199.	4.2	64

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19	Aerobic Interval Training Attenuates Mitochondrial Dysfunction in Rats Post-Myocardial Infarction: Roles of Mitochondrial Network Dynamics. <i>International Journal of Molecular Sciences</i> , 2014, 15, 5304-5322.	4.1	62
20	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.	1.6	56
21	Mitochondrial accumulation under oxidative stress is due to defects in autophagy. <i>Journal of Cellular Biochemistry</i> , 2013, 114, 212-219.	2.6	52
22	Mitochondrial dysfunction-associated OPA1 cleavage contributes to muscle degeneration: preventative effect of hydroxytyrosol acetate. <i>Cell Death and Disease</i> , 2014, 5, e1521-e1521.	6.3	49
23	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.	2.9	48
24	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.	2.9	44
25	Bitter Gourd Inhibits the Development of Obesity-Associated Fatty Liver in C57BL/6 Mice Fed a High-Fat Diet. <i>Journal of Nutrition</i> , 2014, 144, 475-483.	2.9	44
26	A Signal Transduction Pathway from TGF- β 21 to SKP2 via Akt1 and c-Myc and its Correlation with Progression in Human Melanoma. <i>Journal of Investigative Dermatology</i> , 2014, 134, 159-167.	0.7	42
27	Lipoamide or lipoic acid stimulates mitochondrial biogenesis in 3T3-L1 adipocytes via the endothelial NO synthase-eGMP-protein kinase G signalling pathway. <i>British Journal of Pharmacology</i> , 2011, 162, 1213-1224.	5.4	40
28	(-)-Epigallocatechin-3-gallate attenuated myocardial mitochondrial dysfunction and autophagy in diabetic Goto-Kakizaki rats. <i>Free Radical Research</i> , 2014, 48, 898-906.	3.3	40
29	O-GlcNAcase deficiency suppresses skeletal myogenesis and insulin sensitivity in mice through the modulation of mitochondrial homeostasis. <i>Diabetologia</i> , 2016, 59, 1287-1296.	6.3	38
30	Curcumin analog 1, 5-bis (2-trifluoromethylphenyl)-1, 4-pentadien-3-one exhibits enhanced ability on Nrf2 activation and protection against acrolein-induced ARPE-19 cell toxicity. <i>Toxicology and Applied Pharmacology</i> , 2013, 272, 726-735.	2.8	37
31	Aerobic interval training protects against myocardial infarction-induced oxidative injury by enhancing antioxidant system and mitochondrial biosynthesis. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2014, 41, 192-201.	1.9	36
32	Acetylated FoxO1 mediates high-glucose induced autophagy in H9c2 cardiomyoblasts: Regulation by a polyphenol (-)-epigallocatechin-3-gallate. <i>Metabolism: Clinical and Experimental</i> , 2014, 63, 1314-1323.	3.4	36
33	Anticancer Effect of a Curcumin Derivative B63: ROS Production and Mitochondrial Dysfunction. <i>Current Cancer Drug Targets</i> , 2014, 14, 156-166.	1.6	36
34	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.	3.4	33
35	The regulatory roles of O-GlcNAcylation in mitochondrial homeostasis and metabolic syndrome. <i>Free Radical Research</i> , 2016, 50, 1080-1088.	3.3	33
36	Punicalagin attenuates endothelial dysfunction by activating FoxO1, a pivotal regulating switch of mitochondrial biogenesis. <i>Free Radical Biology and Medicine</i> , 2019, 135, 251-260.	2.9	31

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37	Pomegranate extract and exercise provide additive benefits on improvement of immune function by inhibiting inflammation and oxidative stress in high-fat-diet-induced obesity in rats. <i>Journal of Nutritional Biochemistry</i> , 2016, 32, 20-28.	4.2	30
38	Lipoamide Acts as an Indirect Antioxidant by Simultaneously Stimulating Mitochondrial Biogenesis and Phase II Antioxidant Enzyme Systems in ARPE-19 Cells. <i>PLoS ONE</i> , 2015, 10, e0128502.	2.5	28
39	A Milk-Based Wolfberry Preparation Prevents Prenatal Stress-Induced Cognitive Impairment of Offspring Rats, and Inhibits Oxidative Damage and Mitochondrial Dysfunction In Vitro. <i>Neurochemical Research</i> , 2010, 35, 702-711.	3.3	27
40	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.	4.4	27
41	High ratio of 3/6 polyunsaturated fatty acids targets mTORC1 to prevent high-fat diet-induced metabolic syndrome and mitochondrial dysfunction in mice. <i>Journal of Nutritional Biochemistry</i> , 2020, 79, 108330.	4.2	27
42	Punicalagin Regulates Signaling Pathways in Inflammation-Associated Chronic Diseases. <i>Antioxidants</i> , 2022, 11, 29.	5.1	26
43	Oxidative damage of mitochondrial respiratory chain in different organs of a rat model of diet-induced obesity. <i>European Journal of Nutrition</i> , 2018, 57, 1957-1967.	3.9	25
44	Hypermethylation of Hepatic Mitochondrial <i>ND6</i> Provokes Systemic Insulin Resistance. <i>Advanced Science</i> , 2021, 8, 2004507.	11.2	23
45	Combination of β -glucan and <i>Morus alba</i> L. Leaf Extract Promotes Metabolic Benefits in Mice Fed a High-Fat Diet. <i>Nutrients</i> , 2017, 9, 1110.	4.1	22
46	Adhesive protein-free synthetic hydrogels for retinal pigment epithelium cell culture with low ROS level. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 2258-2267.	4.0	20
47	Synergistic anti-Parkinsonism activity of high doses of B vitamins in a chronic cellular model. <i>Neurobiology of Aging</i> , 2010, 31, 636-646.	3.1	19
48	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.	4.9	19
49	Modulation of HIF-2 β PAS-B domain contributes to physiological responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 13240-13245.	7.1	19
50	Aging Leads to Elevation of O-GlcNAcylation and Disruption of Mitochondrial Homeostasis in Retina. <i>Oxidative Medicine and Cellular Longevity</i> , 2014, 2014, 1-11.	4.0	18
51	A cigarette component acrolein induces accelerated senescence in human diploid fibroblast IMR-90 cells. <i>Biogerontology</i> , 2013, 14, 503-511.	3.9	17
52	Punicalagin Activates AMPK/PGC α 1/Nrf2 Cascade in Mice: The Potential Protective Effect against Prenatal Stress. <i>Molecular Nutrition and Food Research</i> , 2020, 64, e2000312.	3.3	16
53	Cardiac disruption of SDHAF4-mediated mitochondrial complex II assembly promotes dilated cardiomyopathy. <i>Nature Communications</i> , 2022, 13, .	12.8	16
54	Hydroxytyrosol protects against acrolein induced preosteoblast cell toxicity: Involvement of Nrf2/Keap1 pathway. <i>Journal of Functional Foods</i> , 2015, 19, 28-38.	3.4	15

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55	Herba houttuyniae Extract Benefits Hyperlipidemic Mice via Activation of the AMPK/PGC-1 α /Nrf2 Cascade. <i>Nutrients</i> , 2020, 12, 164.	4.1	15
56	Cingulate Alpha-2A Adrenoceptors Mediate the Effects of Clonidine on Spontaneous Pain Induced by Peripheral Nerve Injury. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 289.	2.9	14
57	The Analgesic Effects of (5R,6R)-6-(3-Propylthio-1,2,5-thiadiazol-4-yl)-1-azabicyclo[3.2.1] Octane on a Mouse Model of Neuropathic Pain. <i>Anesthesia and Analgesia</i> , 2017, 124, 1330-1338.	2.2	13
58	Determination of Lipoic Acid in Biological Samples with Acetonitrile α -Salt Stacking Method in CE. <i>Chromatographia</i> , 2014, 77, 145-150.	1.3	11
59	Structure based modification of chalcone analogue activates Nrf2 in the human retinal pigment epithelial cell line ARPE-19. <i>Free Radical Biology and Medicine</i> , 2020, 148, 52-59.	2.9	11
60	Htd2 deficiency-associated suppression of α -lipoic acid production provokes mitochondrial dysfunction and insulin resistance in adipocytes. <i>Redox Biology</i> , 2021, 41, 101948.	9.0	11
61	Huperzine A Alleviates Mechanical Allodynia but Not Spontaneous Pain via Muscarinic Acetylcholine Receptors in Mice. <i>Neural Plasticity</i> , 2015, 2015, 1-11.	2.2	10
62	An Intronic Risk SNP rs12454712 for Central Obesity Acts As an Allele-Specific Enhancer To Regulate <i>BCL2</i> Expression. <i>Diabetes</i> , 2021, 70, 1679-1688.	0.6	10
63	Hepatic Suppression of Mitochondrial Complex II Assembly Drives Systemic Metabolic Benefits. <i>Advanced Science</i> , 2022, 9, e2105587.	11.2	10
64	Pinitol attenuates LPS α -induced pneumonia in experimental animals: Possible role via inhibition of the TLR α 4 and NF α KB/ α signaling cascade pathway. <i>Journal of Biochemical and Molecular Toxicology</i> , 2021, 35, e22622.	3.0	9
65	LL-37 attenuates inflammatory impairment via mTOR signaling-dependent mitochondrial protection. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 54, 26-35.	2.8	8
66	Mitoepigenetics: An intriguing regulatory layer in aging and metabolic-related diseases. <i>Free Radical Biology and Medicine</i> , 2021, 177, 337-346.	2.9	8
67	APR3 modulates oxidative stress and mitochondrial function in ARPE α 19 cells. <i>FASEB Journal</i> , 2018, 32, 5851-5861.	0.5	5
68	Hydrogen α -rich and hyperoxygenate saline inhibits lipopolysaccharide α -induced lung injury through mediating α / α signaling pathway in α /6 mice. <i>Environmental Toxicology</i> , 2022, , .	4.0	5
69	Coexpression within Integrated Mitochondrial Pathways Reveals Different Networks in Normal and Chemically Treated Transcriptomes. <i>International Journal of Genomics</i> , 2014, 2014, 1-10.	1.6	4
70	Benefits of the soluble and insoluble fractions of bitter melon in mice fed a high-fat diet. <i>Journal of Functional Foods</i> , 2018, 42, 216-223.	3.4	4
71	Integrative Analyses Reveal Tstd1 as a Potential Modulator of HDL Cholesterol and Mitochondrial Function in Mice. <i>Cells</i> , 2021, 10, 2976.	4.1	3
72	Chalcone-Derived Nrf2 Activator Protects Cognitive Function via Maintaining Neuronal Redox Status. <i>Antioxidants</i> , 2021, 10, 1811.	5.1	3

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73	The effects and mechanisms of pomegranate in the prevention and treatment of metabolic syndrome. Traditional Medicine and Modern Medicine, 2020, 03, 223-237.	0.2	2