

Zhongbing Lu

List of Publications by Year in descending order

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55
papers

2,985
citations

147801

31
h-index

161849

54
g-index

57
all docs

57
docs citations

57
times ranked

4906
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure-activity relationship analysis of antioxidant ability and neuroprotective effect of gallic acid derivatives. <i>Neurochemistry International</i> , 2006, 48, 263-274.	3.8	390
2	PGC-1 β Regulates Expression of Myocardial Mitochondrial Antioxidants and Myocardial Oxidative Stress After Chronic Systolic Overload. <i>Antioxidants and Redox Signaling</i> , 2010, 13, 1011-1022.	5.4	186
3	Oxidative Stress Regulates Left Ventricular PDE5 Expression in the Failing Heart. <i>Circulation</i> , 2010, 121, 1474-1483.	1.6	149
4	Short term Pm2.5 exposure caused a robust lung inflammation, vascular remodeling, and exacerbated transition from left ventricular failure to right ventricular hypertrophy. <i>Redox Biology</i> , 2019, 22, 101161.	9.0	129
5	Left Ventricular Failure Produces Profound Lung Remodeling and Pulmonary Hypertension in Mice. <i>Hypertension</i> , 2012, 59, 1170-1178.	2.7	124
6	Dimethylarginine Dimethylaminohydrolase-1 Is the Critical Enzyme for Degrading the Cardiovascular Risk Factor Asymmetrical Dimethylarginine. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, 1540-1546.	2.4	119
7	β -Carotene induces apoptosis and up-regulates peroxisome proliferator-activated receptor β expression and reactive oxygen species production in MCF-7 cancer cells. <i>European Journal of Cancer</i> , 2007, 43, 2590-2601.	2.8	110
8	Extracellular Superoxide Dismutase Deficiency Exacerbates Pressure Overload-Induced Left Ventricular Hypertrophy and Dysfunction. <i>Hypertension</i> , 2008, 51, 19-25.	2.7	91
9	Extracellular superoxide dismutase protects the heart against oxidative stress and hypertrophy after myocardial infarction. <i>Free Radical Biology and Medicine</i> , 2008, 44, 1305-1313.	2.9	86
10	Endoplasmic Reticulum Stress Sensor Protein Kinase C-Like Endoplasmic Reticulum Kinase (PERK) Protects Against Pressure Overload-Induced Heart Failure and Lung Remodeling. <i>Hypertension</i> , 2014, 64, 738-744.	2.7	86
11	Xanthine Oxidase Inhibition With Febuxostat Attenuates Systolic Overload-Induced Left Ventricular Hypertrophy and Dysfunction in Mice. <i>Journal of Cardiac Failure</i> , 2008, 14, 746-753.	1.7	77
12	AMP Activated Protein Kinase- α 2 Regulates Expression of Estrogen-Related Receptor- α 2, a Metabolic Transcription Factor Related to Heart Failure Development. <i>Hypertension</i> , 2011, 58, 696-703.	2.7	76
13	Exacerbated Pulmonary Arterial Hypertension and Right Ventricular Hypertrophy in Animals With Loss of Function of Extracellular Superoxide Dismutase. <i>Hypertension</i> , 2011, 58, 303-309.	2.7	71
14	Mitochondrial reactive oxygen species and nitric oxide-mediated cancer cell apoptosis in 2-butylamino-2-demethoxyhypocrellin B photodynamic treatment. <i>Free Radical Biology and Medicine</i> , 2006, 41, 1590-1605.	2.9	67
15	AMPK α 2 deficiency exacerbates long-term PM2.5 exposure-induced lung injury and cardiac dysfunction. <i>Free Radical Biology and Medicine</i> , 2018, 121, 202-214.	2.9	67
16	Metformin Protects Against Systolic Overload-Induced Heart Failure Independent of AMP-Activated Protein Kinase α 2. <i>Hypertension</i> , 2014, 63, 723-728.	2.7	66
17	GCN2 deficiency ameliorates doxorubicin-induced cardiotoxicity by decreasing cardiomyocyte apoptosis and myocardial oxidative stress. <i>Redox Biology</i> , 2018, 17, 25-34.	9.0	55
18	Metformin protects against PM2.5-induced lung injury and cardiac dysfunction independent of AMP-activated protein kinase α 2. <i>Redox Biology</i> , 2020, 28, 101345.	9.0	53

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19	YAP promotes breast cancer metastasis by repressing growth differentiation factor-15. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 1744-1753.	3.8	50
20	The effect of exposure time and concentration of airborne PM2.5 on lung injury in mice: A transcriptome analysis. <i>Redox Biology</i> , 2019, 26, 101264.	9.0	48
21	Asymmetric dimethylarginine exacerbates A β -induced toxicity and oxidative stress in human cell and <i>Caenorhabditis elegans</i> models of Alzheimer disease. <i>Free Radical Biology and Medicine</i> , 2015, 79, 117-126.	2.9	47
22	Airborne PM2.5-Induced Hepatic Insulin Resistance by Nrf2/JNK-Mediated Signaling Pathway. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 787.	2.6	42
23	Adenosine A ₃ Receptor Deficiency Exerts Unanticipated Protective Effects on the Pressure-Overloaded Left Ventricle. <i>Circulation</i> , 2008, 118, 1713-1721.	1.6	41
24	Adsorption of Cu(II) from aqueous solutions by tannins immobilized on collagen. <i>Journal of Chemical Technology and Biotechnology</i> , 2004, 79, 335-342.	3.2	40
25	AMPK attenuates microtubule proliferation in cardiac hypertrophy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 304, H749-H758.	3.2	40
26	Loss of the Eukaryotic Initiation Factor 2 β Kinase General Control Nonderepressible 2 Protects Mice From Pressure Overload-Induced Congestive Heart Failure Without Affecting Ventricular Hypertrophy. <i>Hypertension</i> , 2014, 63, 128-135.	2.7	40
27	Ecto-5'-Nucleotidase Deficiency Exacerbates Pressure-Overload-Induced Left Ventricular Hypertrophy and Dysfunction. <i>Hypertension</i> , 2008, 51, 1557-1564.	2.7	39
28	Tempol ameliorates polycystic ovary syndrome through attenuating intestinal oxidative stress and modulating of gut microbiota composition-serum metabolites interaction. <i>Redox Biology</i> , 2021, 41, 101886.	9.0	39
29	Dimethylarginine Dimethylaminohydrolase 1 Protects Against High-Fat Diet-Induced Hepatic Steatosis and Insulin Resistance in Mice. <i>Antioxidants and Redox Signaling</i> , 2017, 26, 598-609.	5.4	36
30	GCN2 deficiency ameliorates cardiac dysfunction in diabetic mice by reducing lipotoxicity and oxidative stress. <i>Free Radical Biology and Medicine</i> , 2019, 130, 128-139.	2.9	36
31	Urban airborne PM2.5-activated microglia mediate neurotoxicity through glutaminase-containing extracellular vesicles in olfactory bulb. <i>Environmental Pollution</i> , 2020, 264, 114716.	7.5	36
32	DDAH1 deficiency promotes intracellular oxidative stress and cell apoptosis via a miR-21-dependent pathway in mouse embryonic fibroblasts. <i>Free Radical Biology and Medicine</i> , 2016, 92, 50-60.	2.9	33
33	DDAH1 plays dual roles in PM2.5 induced cell death in A549 cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 2793-2801.	2.4	33
34	TMT-Based Quantitative Proteomics Analysis Reveals Airborne PM2.5-Induced Pulmonary Fibrosis. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 98.	2.6	32
35	The protein arginine methyltransferase PRMT5 regulates A β -induced toxicity in human cells and <i>Caenorhabditis elegans</i> models of Alzheimer's disease. <i>Journal of Neurochemistry</i> , 2015, 134, 969-977.	3.9	30
36	Cardiomyocyte dimethylarginine dimethylaminohydrolase-1 (DDAH1) plays an important role in attenuating ventricular hypertrophy and dysfunction. <i>Basic Research in Cardiology</i> , 2017, 112, 55.	5.9	30

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37	Overexpression of Mitochondrial Ferritin Sensitizes Cells to Oxidative Stress Via an Iron-Mediated Mechanism. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 1791-1803.	5.4	28
38	Indirect effect of PM1 on endothelial cells via inducing the release of respiratory inflammatory cytokines. <i>Toxicology in Vitro</i> , 2019, 57, 203-210.	2.4	27
39	GCN2 deficiency protects against high fat diet induced hepatic steatosis and insulin resistance in mice. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 3257-3267.	3.8	26
40	AMP-activated kinase β 2 deficiency protects mice from denervation-induced skeletal muscle atrophy. <i>Archives of Biochemistry and Biophysics</i> , 2016, 600, 56-60.	3.0	25
41	Neuroprotective effects of aqueous extracts of <i>Uncaria tomentosa</i> : Insights from 6-OHDA induced cell damage and transgenic <i>Caenorhabditis elegans</i> model. <i>Neurochemistry International</i> , 2013, 62, 940-947.	3.8	23
42	Nrf2 deficiency exacerbates PM2.5-induced olfactory bulb injury. <i>Biochemical and Biophysical Research Communications</i> , 2018, 505, 1154-1160.	2.1	22
43	Dimethylarginine Dimethylaminohydrolase 1 Deficiency Induces the Epithelial to Mesenchymal Transition in Renal Proximal Tubular Epithelial Cells and Exacerbates Kidney Damage in Aged and Diabetic Mice. <i>Antioxidants and Redox Signaling</i> , 2017, 27, 1347-1360.	5.4	21
44	Inhibition of GCN2 alleviates hepatic steatosis and oxidative stress in obese mice: Involvement of NRF2 regulation. <i>Redox Biology</i> , 2022, 49, 102224.	9.0	18
45	Adenosine kinase regulation of cardiomyocyte hypertrophy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H1722-H1732.	3.2	16
46	S-nitrosylation of PDE5 increases its ubiquitin-mediated proteasomal degradation. <i>Free Radical Biology and Medicine</i> , 2015, 86, 343-351.	2.9	16
47	Kidney failure, arterial hypertension and left ventricular hypertrophy in rats with loss of function mutation of SOD3. <i>Free Radical Biology and Medicine</i> , 2020, 152, 787-796.	2.9	16
48	The amino acid sensor general control nonderepressible 2 (GCN2) controls TH9 cells and allergic airway inflammation. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 144, 1091-1105.	2.9	13
49	Adipose-derived stem cells therapy effectively attenuates PM2.5-induced lung injury. <i>Stem Cell Research and Therapy</i> , 2021, 12, 355.	5.5	9
50	GCN2 deficiency protects mice from denervation-induced skeletal muscle atrophy via inhibiting FoxO3a nuclear translocation. <i>Protein and Cell</i> , 2018, 9, 966-970.	11.0	8
51	Exploring breath biomarkers in BLM-induced pulmonary fibrosis mice with associative ionization time-of-flight mass spectrometry. <i>Talanta</i> , 2022, 239, 123120.	5.5	7
52	DDAH1 Protects against Acetaminophen-Induced Liver Hepatotoxicity in Mice. <i>Antioxidants</i> , 2022, 11, 880.	5.1	7
53	hCLP46 increases Smad3 protein stability via inhibiting its ubiquitin-proteasomal degradation. <i>Protein and Cell</i> , 2015, 6, 767-770.	11.0	4
54	Vanadium(IV)-Chlorodipicolinate Protects against Hepatic Steatosis by Ameliorating Lipid Peroxidation, Endoplasmic Reticulum Stress, and Inflammation. <i>Antioxidants</i> , 2022, 11, 1093.	5.1	3

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55	Inhibition of GCN2 Alleviates Cardiomyopathy in Type 2 Diabetic Mice via Attenuating Lipotoxicity and Oxidative Stress. <i>Antioxidants</i> , 2022, 11, 1379.	5.1	2