Zhongbing Lu

List of Publications by Citations

55 papers	2,220 citations	26 h-index	46 g-index
57 ext. papers	2,662 ext. citations	7.3 avg, IF	4.46 L-index

#	Paper	IF	Citations
55	Structure-activity relationship analysis of antioxidant ability and neuroprotective effect of gallic acid derivatives. *Neurochemistry International*, **2006**, 48, 263-74	4.4	327
54	PGC-1 alpha regulates expression of myocardial mitochondrial antioxidants and myocardial oxidative stress after chronic systolic overload. *Antioxidants and Redox Signaling*, **2010**, 13, 1011-22	8.4	162
53	Oxidative stress regulates left ventricular PDE5 expression in the failing heart. *Circulation*, **2010**, 121, 1474-83	16.7	127
52	Dimethylarginine dimethylaminohydrolase-1 is the critical enzyme for degrading the cardiovascular risk factor asymmetrical dimethylarginine. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2011**, 31, 1540-6	9.4	99
51	Left ventricular failure produces profound lung remodeling and pulmonary hypertension in mice: heart failure causes severe lung disease. *Hypertension*, **2012**, 59, 1170-8	8.5	99
50	beta-Carotene induces apoptosis and up-regulates peroxisome proliferator-activated receptor gamma expression and reactive oxygen species production in MCF-7 cancer cells. *European Journal of Cancer*, **2007**, 43, 2590-601	7.5	95
49	Extracellular superoxide dismutase deficiency exacerbates pressure overload-induced left ventricular hypertrophy and dysfunction. *Hypertension*, **2008**, 51, 19-25	8.5	85
48	Extracellular superoxide dismutase protects the heart against oxidative stress and hypertrophy after myocardial infarction. *Free Radical Biology and Medicine*, **2008**, 44, 1305-13	7.8	71
47	Short term Pm2.5 exposure caused a robust lung inflammation, vascular remodeling, and exacerbated transition from left ventricular failure to right ventricular hypertrophy. *Redox Biology*, **2019**, 22, 101161	11.3	66
46	Xanthine oxidase inhibition with febuxostat attenuates systolic overload-induced left ventricular hypertrophy and dysfunction in mice. *Journal of Cardiac Failure*, **2008**, 14, 746-53	3.3	63
45	Endoplasmic reticulum stress sensor protein kinase R-like endoplasmic reticulum kinase (PERK) protects against pressure overload-induced heart failure and lung remodeling. *Hypertension*, **2014**, 64, 738-44	8.5	62
44	AMP activated protein kinase-α2 regulates expression of estrogen-related receptor-α a metabolic transcription factor related to heart failure development. *Hypertension*, **2011**, 58, 696-703	8.5	61
43	Exacerbated pulmonary arterial hypertension and right ventricular hypertrophy in animals with loss of function of extracellular superoxide dismutase. *Hypertension*, **2011**, 58, 303-9	8.5	61
42	Metformin protects against systolic overload-induced heart failure independent of AMP-activated protein kinase α2. *Hypertension*, **2014**, 63, 723-8	8.5	50
41	AMPKα2 deficiency exacerbates long-term PM exposure-induced lung injury and cardiac dysfunction. *Free Radical Biology and Medicine*, **2018**, 121, 202-214	7.8	47
40	Mitochondrial reactive oxygen species and nitric oxide-mediated cancer cell apoptosis in 2-butylamino-2-demethoxyhypocrellin B photodynamic treatment. *Free Radical Biology and Medicine*, **2006**, 41, 1590-605	7.8	46
39	GCN2 deficiency ameliorates doxorubicin-induced cardiotoxicity by decreasing cardiomyocyte apoptosis and myocardial oxidative stress. *Redox Biology*, **2018**, 17, 25-34	11.3	39

38	Adenosine A3 receptor deficiency exerts unanticipated protective effects on the pressure-overloaded left ventricle. *Circulation*, **2008**, 118, 1713-21	16.7	39
37	Ecto-5′-nucleotidase deficiency exacerbates pressure-overload-induced left ventricular hypertrophy and dysfunction. *Hypertension*, **2008**, 51, 1557-64	8.5	36
36	YAP promotes breast cancer metastasis by repressing growth differentiation factor-15. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2018**, 1864, 1744-1753	6.9	35
35	AMPK attenuates microtubule proliferation in cardiac hypertrophy. *American Journal of Physiology - Heart and Circulatory Physiology*, **2013**, 304, H749-58	5.2	34
34	Asymmetric dimethylarginine exacerbates Aβ-induced toxicity and oxidative stress in human cell and Caenorhabditis elegans models of Alzheimer disease. *Free Radical Biology and Medicine*, **2015**, 79, 117-26	7.8	32
33	Adsorption of Cu(II) from aqueous solutions by tannins immobilized on collagen. *Journal of Chemical Technology and Biotechnology*, **2004**, 79, 335-342	3.5	32
32	Metformin protects against PM-induced lung injury and cardiac dysfunction independent of AMP-activated protein kinase α. *Redox Biology*, **2020**, 28, 101345	11.3	32
31	Loss of the eukaryotic initiation factor 2α kinase general control nonderepressible 2 protects mice from pressure overload-induced congestive heart failure without affecting ventricular hypertrophy. *Hypertension*, **2014**, 63, 128-35	8.5	30
30	Airborne PM-Induced Hepatic Insulin Resistance by Nrf2/JNK-Mediated Signaling Pathway. *International Journal of Environmental Research and Public Health*, **2017**, 14,	4.6	27
29	Overexpression of mitochondrial ferritin sensitizes cells to oxidative stress via an iron-mediated mechanism. *Antioxidants and Redox Signaling*, **2009**, 11, 1791-803	8.4	25
28	The effect of exposure time and concentration of airborne PM on lung injury in mice: A transcriptome analysis. *Redox Biology*, **2019**, 26, 101264	11.3	24
27	Dimethylarginine Dimethylaminohydrolase 1 Protects Against High-Fat Diet-Induced Hepatic Steatosis and Insulin Resistance in Mice. *Antioxidants and Redox Signaling*, **2017**, 26, 598-609	8.4	24
26	DDAH1 deficiency promotes intracellular oxidative stress and cell apoptosis via a miR-21-dependent pathway in mouse embryonic fibroblasts. *Free Radical Biology and Medicine*, **2016**, 92, 50-60	7.8	22
25	AMP-activated kinase α deficiency protects mice from denervation-induced skeletal muscle atrophy. *Archives of Biochemistry and Biophysics*, **2016**, 600, 56-60	4.1	22
24	DDAH1 plays dual roles in PM2.5 induced cell death in A549 cells. *Biochimica Et Biophysica Acta - General Subjects*, **2016**, 1860, 2793-801	4	21
23	Cardiomyocyte dimethylarginine dimethylaminohydrolase-1 (DDAH1) plays an important role in attenuating ventricular hypertrophy and dysfunction. *Basic Research in Cardiology*, **2017**, 112, 55	11.8	21
22	TMT-Based Quantitative Proteomics Analysis Reveals Airborne PM-Induced Pulmonary Fibrosis. *International Journal of Environmental Research and Public Health*, **2018**, 16,	4.6	20
21	Neuroprotective effects of aqueous extracts of Uncaria tomentosa: Insights from 6-OHDA induced cell damage and transgenic Caenorhabditis elegans model. *Neurochemistry International*, **2013**, 62, 940-7	4.4	19

20	GCN2 deficiency ameliorates cardiac dysfunction in diabetic mice by reducing lipotoxicity and oxidative stress. *Free Radical Biology and Medicine*, **2019**, 130, 128-139	7.8	18
19	Adenosine kinase regulation of cardiomyocyte hypertrophy. *American Journal of Physiology - Heart and Circulatory Physiology*, **2011**, 300, H1722-32	5.2	16
18	Nrf2 deficiency exacerbates PM-induced olfactory bulb injury. *Biochemical and Biophysical Research Communications*, **2018**, 505, 1154-1160	3.4	15
17	Indirect effect of PM on endothelial cells via inducing the release of respiratory inflammatory cytokines. *Toxicology in Vitro*, **2019**, 57, 203-210	3.6	14
16	S-nitrosylation of PDE5 increases its ubiquitin-proteasomal degradation. *Free Radical Biology and Medicine*, **2015**, 86, 343-51	7.8	14
15	The protein arginine methyltransferase PRMT5 regulates A□nduced toxicity in human cells and Caenorhabditis elegans models of Alzheimer□s disease. *Journal of Neurochemistry*, **2015**, 134, 969-77	6	14
14	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. *Antioxidants and Redox Signaling*, **2017**, 27, 1347-1360	8.4	13
13	GCN2 deficiency protects against high fat diet induced hepatic steatosis and insulin resistance in mice. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2018**, 1864, 3257-3267	6.9	13
12	Urban airborne PM-activated microglia mediate neurotoxicity through glutaminase-containing extracellular vesicles in olfactory bulb. *Environmental Pollution*, **2020**, 264, 114716	9.3	12
11	Kidney failure, arterial hypertension and left ventricular hypertrophy in rats with loss of function mutation of SOD3. *Free Radical Biology and Medicine*, **2020**, 152, 787-796	7.8	9
10	Tempol ameliorates polycystic ovary syndrome through attenuating intestinal oxidative stress and modulating of gut microbiota composition-serum metabolites interaction. *Redox Biology*, **2021**, 41, 101886	11.3	7
9	GCN2 deficiency protects mice from denervation-induced skeletal muscle atrophy via inhibiting FoxO3a nuclear translocation. *Protein and Cell*, **2018**, 9, 966-970	7.2	6
8	hCLP46 increases Smad3 protein stability via inhibiting its ubiquitin-proteasomal degradation. *Protein and Cell*, **2015**, 6, 767-70	7.2	4
7	The amino acid sensor general control nonderepressible 2 (GCN2) controls T9 cells and allergic airway inflammation. *Journal of Allergy and Clinical Immunology*, **2019**, 144, 1091-1105	11.5	3
6	Adipose-derived stem cells therapy effectively attenuates PM-induced lung injury. *Stem Cell Research and Therapy*, **2021**, 12, 355	8.3	3
5	Inhibition of GCN2 alleviates hepatic steatosis and oxidative stress in obese mice: Involvement of NRF2 regulation.. *Redox Biology*, **2021**, 49, 102224	11.3	2
4	Exploring breath biomarkers in BLM-induced pulmonary fibrosis mice with associative ionization time-of-flight mass spectrometry. *Talanta*, **2021**, 239, 123120	6.2	1
3	DDAH1 Protects against Acetaminophen-Induced Liver Hepatoxicity in Mice. *Antioxidants*, **2022**, 11, 880	7.1	1

2 Advances in the Toxicological Studies of Atmospheric Particulate Matter **2022**, 227-253

1 Vanadium(IV)-Chlorodipicolinate Protects against Hepatic Steatosis by Ameliorating Lipid Peroxidation, Endoplasmic Reticulum Stress, and Inflammation. *Antioxidants*, **2022**, 11, 1093 7.1