

Chang Chen

List of Publications by Year in descending order

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69
papers

2,904
citations

201674

27
h-index

168389

53
g-index

70
all docs

70
docs citations

70
times ranked

4697
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of the redox-stress signaling threshold (RST): Increased RST helps to delay aging in <i>C. elegans</i> . <i>Free Radical Biology and Medicine</i> , 2022, 178, 54-58.	2.9	13
2	GAPDH S-nitrosation contributes to age-related sarcopenia through mediating apoptosis. <i>Nitric Oxide - Biology and Chemistry</i> , 2022, 120, 1-8.	2.7	6
3	A <i>Lycium barbarum</i> extract inhibits $\text{A}\beta$ amyloid toxicity by activating the antioxidant system and mtUPR in a <i>Caenorhabditis elegans</i> model of Alzheimer's disease. <i>FASEB Journal</i> , 2022, 36, e22156.	0.5	11
4	ER reductive stress caused by Ero1 S-nitrosation accelerates senescence. <i>Free Radical Biology and Medicine</i> , 2022, 180, 165-178.	2.9	12
5	Construction of a two-dimensional artificial antioxidant for nanocatalytic rheumatoid arthritis treatment. <i>Nature Communications</i> , 2022, 13, 1988.	12.8	59
6	Long noncoding RNA MAGI2-AS3 regulates the H2O2 level and cell senescence via HSPA8. <i>Redox Biology</i> , 2022, 54, 102383.	9.0	11
7	Precision Redox: The Key for Antioxidant Pharmacology. <i>Antioxidants and Redox Signaling</i> , 2021, 34, 1069-1082.	5.4	50
8	Elevated serum 4HNE plus decreased serum thioredoxin: Unique feature and implications for acute exacerbation of chronic obstructive pulmonary disease. <i>PLoS ONE</i> , 2021, 16, e0245810.	2.5	6
9	Protein S-nitrosylation regulates proteostasis and viability of hematopoietic stem cell during regeneration. <i>Cell Reports</i> , 2021, 34, 108922.	6.4	13
10	SLC-30A9 is required for Zn ²⁺ homeostasis, Zn ²⁺ mobilization, and mitochondrial health. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	21
11	Redox environment metabolomic evaluation (REME) of the heart after myocardial ischemia/reperfusion injury. <i>Free Radical Biology and Medicine</i> , 2021, 173, 7-18.	2.9	6
12	GSNOR facilitates antiviral innate immunity by restricting TBK1 cysteine S-nitrosation. <i>Redox Biology</i> , 2021, 47, 102172.	9.0	9
13	An extract of <i>Lycium barbarum</i> mimics exercise to improve muscle endurance through increasing type IIa oxidative muscle fibers by activating ERR β . <i>FASEB Journal</i> , 2020, 34, 11460-11473.	0.5	16
14	Preparative Separation of Flavonoids from Goji Berries by Mixed-Mode Macroporous Adsorption Resins and Effect on $\text{A}\beta$ -Expressing and Anti-Aging Genes. <i>Molecules</i> , 2020, 25, 3511.	3.8	16
15	Nitrosative stress inhibits aminoacylation and editing activities of mitochondrial threonyl-tRNA synthetase by S-nitrosation. <i>Nucleic Acids Research</i> , 2020, 48, 6799-6810.	14.5	11
16	Phase Separation and Cytotoxicity of Tau are Modulated by Protein Disulfide Isomerase and S-nitrosylation of this Molecular Chaperone. <i>Journal of Molecular Biology</i> , 2020, 432, 2141-2163.	4.2	28
17	S-Glutathionylation of human inducible Hsp70 reveals a regulatory mechanism involving the C-terminal α -helical lid. <i>Journal of Biological Chemistry</i> , 2020, 295, 8302-8324.	3.4	22
18	S-nitrosation impairs KLF4 activity and instigates endothelial dysfunction in pulmonary arterial hypertension. <i>Redox Biology</i> , 2019, 21, 101099.	9.0	28

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19	Differential stem cell aging kinetics in Hutchinson-Gilford progeria syndrome and Werner syndrome. <i>Protein and Cell</i> , 2018, 9, 333-350.	11.0	56
20	ATF6 safeguards organelle homeostasis and cellular aging in human mesenchymal stem cells. <i>Cell Discovery</i> , 2018, 4, 2.	6.7	49
21	GSNOR modulates hyperhomocysteinemia-induced T cell activation and atherosclerosis by switching Akt S-nitrosylation to phosphorylation. <i>Redox Biology</i> , 2018, 17, 386-399.	9.0	24
22	PI4KIII β regulates insulin secretion and glucose homeostasis via a PKD-dependent pathway. <i>Biophysics Reports</i> , 2018, 4, 25-38.	0.8	7
23	Autophagy impairment mediated by S-nitrosation of ATG4B leads to neurotoxicity in response to hyperglycemia. <i>Autophagy</i> , 2017, 13, 1145-1160.	9.1	93
24	The decay of Redox-stress Response Capacity is a substantive characteristic of aging: Revising the redox theory of aging. <i>Redox Biology</i> , 2017, 11, 365-374.	9.0	86
25	PI-273, a Substrate-Competitive, Specific Small-Molecule Inhibitor of PI4KIII β , Inhibits the Growth of Breast Cancer Cells. <i>Cancer Research</i> , 2017, 77, 6253-6266.	0.9	27
26	Increased GSNOR Expression during Aging Impairs Cognitive Function and Decreases S-Nitrosation of CaMKIII β . <i>Journal of Neuroscience</i> , 2017, 37, 9741-9758.	3.6	24
27	Soluble epoxide hydrolase activation by S-nitrosation contributes to cardiac ischemia-reperfusion injury. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 110, 70-79.	1.9	12
28	Reduction of PCN biosynthesis by NO in <i>Pseudomonas aeruginosa</i> . <i>Redox Biology</i> , 2016, 8, 252-258.	9.0	10
29	Glutathionylation of the Bacterial Hsp70 Chaperone DnaK Provides a Link between Oxidative Stress and the Heat Shock Response. <i>Journal of Biological Chemistry</i> , 2016, 291, 6967-6981.	3.4	37
30	A Werner syndrome stem cell model unveils heterochromatin alterations as a driver of human aging. <i>Science</i> , 2015, 348, 1160-1163.	12.6	429
31	Pro-inflammatory Macrophages suppress PPAR β activity in Adipocytes via S-nitrosylation. <i>Free Radical Biology and Medicine</i> , 2015, 89, 895-905.	2.9	32
32	Molecular insights into the membrane-associated phosphatidylinositol 4-kinase III β . <i>Nature Communications</i> , 2014, 5, 3552.	12.8	52
33	A Novel Suppressive Effect of Alcohol Dehydrogenase 5 in Neuronal Differentiation. <i>Journal of Biological Chemistry</i> , 2014, 289, 20193-20199.	3.4	19
34	Puzzle out the regulation mechanism of PI4KIII β activity. <i>Science China Life Sciences</i> , 2014, 57, 636-638.	4.9	3
35	Dual inhibition of EGFR at protein and activity level via combinatorial blocking of PI4KIII β as anti-tumor strategy. <i>Protein and Cell</i> , 2014, 5, 457-468.	11.0	18
36	Nitric oxide suppresses NLRP3 inflammasome activation and protects against LPS-induced septic shock. <i>Cell Research</i> , 2013, 23, 201-212.	12.0	324

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37	Function and Mechanism of Nitric Oxide (I) Characteristics and Function. Sheng Wu Wu Li Hsueh Bao, 2013, 28, 173-184.	0.1	2
38	Optimization of a Glutamate Excitotoxicity Model in Cultured Cerebellar Granule Neurons. Acta Agronomica Sinica(China), 2013, 40, 775.	0.3	0
39	GSNOR:a Novel Regulator of Inflammation. Acta Agronomica Sinica(China), 2013, 40, 731.	0.3	0
40	SNO spectral counting (SNOSC), a label-free proteomic method for quantification of changes in levels of protein S-nitrosation. Free Radical Research, 2012, 46, 1044-1050.	3.3	9
41	SNObase, a database for S-nitrosation modification. Protein and Cell, 2012, 3, 929-933.	11.0	16
42	Function and Mechanism of Nitric Oxide (â€¦) Mechanism and Protein S-Nitrosation. Sheng Wu Wu Li Hsueh Bao, 2012, 28, 268.	0.1	1
43	Nitric oxide metabolism controlled by formaldehyde dehydrogenase (fdh, homolog of mammalian) Tj ETQq1 1 0.784314 rgBT /Overlook Chemistry, 2011, 24, 17-24.	2.7	23
44	NMR-based metabonomic analyses of the effects of ultrasmall superparamagnetic particles of iron oxide (USPIO) on macrophage metabolism. Journal of Nanoparticle Research, 2011, 13, 2049-2062.	1.9	28
45	Lipin proteins form homo- and hetero-oligomers. Biochemical Journal, 2010, 432, 65-76.	3.7	27
46	Quantitative proteomic analysis of S-nitrosated proteins in diabetic mouse liver with ICAT switch method. Protein and Cell, 2010, 1, 675-687.	11.0	22
47	NADPH oxidase 4 mediates reactive oxygen species induction of CD146 dimerization in VEGF signal transduction. Free Radical Biology and Medicine, 2010, 49, 227-236.	2.9	38
48	Detection of Protein S-Nitrosation using Irreversible Biotinylation Procedures (IBP). Free Radical Biology and Medicine, 2010, 49, 447-456.	2.9	57
49	ESNOQ, Proteomic Quantification of Endogenous S-Nitrosation. PLoS ONE, 2010, 5, e10015.	2.5	32
50	Repression of classical nuclear export by S-nitrosylation of CRM1. Journal of Cell Science, 2009, 122, 3772-3779.	2.0	45
51	Nonlinear cooperation of p53-ING1-induced bax expression and protein S-nitrosylation in GSNO-induced thymocyte apoptosis: a quantitative approach with cross-platform validation. Apoptosis: an International Journal on Programmed Cell Death, 2009, 14, 236-245.	4.9	5
52	Detergent-free biotin switch combined with liquid chromatography/tandem mass spectrometry in the analysis of S-nitrosylated proteins. Rapid Communications in Mass Spectrometry, 2008, 22, 1137-1145.	1.5	42
53	On-gel fluorescent visualization and the site identification of S-nitrosylated proteins. Analytical Biochemistry, 2008, 377, 150-155.	2.4	34
54	Nitric oxide controls nuclear export of APE1/Ref-1 through S-nitrosation of Cysteines 93 and 310. Nucleic Acids Research, 2007, 35, 2522-2532.	14.5	97

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55	Nitric Oxide Destabilizes Pias3 and Regulates Sumoylation. PLoS ONE, 2007, 2, e1085.	2.5	44
56	An ascorbate-dependent artifact that interferes with the interpretation of the biotin switch assay. Free Radical Biology and Medicine, 2006, 41, 562-567.	2.9	95
57	The endoplasmic reticulum-related events in S-nitrosoglutathione-induced neurotoxicity in cerebellar granule cells. Brain Research, 2004, 1015, 25-33.	2.2	23
58	Free radical scavenging efficiency of Nano-Se in vitro. Free Radical Biology and Medicine, 2003, 35, 805-813.	2.9	239
59	A Photoelectric Method for Analyzing NO-Induced Apoptosis in Cultured Neuronal Cells. Electroanalysis, 2000, 12, 1414-1418.	2.9	3
60	Mechanisms of apoptosis in rat cerebellar granule cells induced by hydroxyl radicals and the effects of EGb761 and its constituents. Toxicology, 2000, 148, 103-110.	4.2	61
61	Reactive oxygen species are involved in nitric oxide-induced apoptosis in rat cortical neurons. Research on Chemical Intermediates, 2000, 26, 875-883.	2.7	0
62	EPC-K1 protects neuronal cells from peroxynitrite-mediated oxidative damage. Research on Chemical Intermediates, 2000, 26, 667-677.	2.7	1
63	Nitric oxide damages neuronal mitochondria and induces apoptosis in neurons. Science Bulletin, 2000, 45, 422-426.	1.7	3
64	Nitric oxide induces oxidative stress and apoptosis in neuronal cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2000, 1498, 72-79.	4.1	164
65	HYDROGEN PEROXIDE-INDUCED OXIDATIVE DAMAGE AND APOPTOSIS IN CEREBELLAR GRANULE CELLS: PROTECTION BY GINKGO BILOBA EXTRACT. Pharmacological Research, 2000, 41, 427-433.	7.1	78
66	Green Tea Polyphenols React with 1,1-Diphenyl-2-picrylhydrazyl Free Radicals in the Bilayer of Liposomes: A Direct Evidence from Electron Spin Resonance Studies. Journal of Agricultural and Food Chemistry, 2000, 48, 5710-5714.	5.2	44
67	Different effects of the constituents of EGb761 on apoptosis in rat cerebellar granule cells induced by hydroxyl radicals. IUBMB Life, 1999, 47, 397-405.	3.4	27
68	Radiolysis of glycyrrhizic acid monoammonium in N2O saturated aqueous solution. A product and pulse radiolysis study. Radiation Physics and Chemistry, 1998, 51, 49-55.	2.8	1
69	Selecting ethanol as a model organic solvent in radiation chemistry-3. Radiolysis of glycyrrhetic acid (GL)-ethanol system and structure modification of GL by I ¹³⁷ radiation method. Radiation Physics and Chemistry, 1998, 53, 151-160.	2.8	3