

# 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	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
2	Nitric oxide suppresses NLRP3 inflammasome activation and protects against LPS-induced septic shock. <i>Cell Research</i> , 2013, 23, 201-212.	12.0	324
3	Free radical scavenging efficiency of Nano-Se in vitro. <i>Free Radical Biology and Medicine</i> , 2003, 35, 805-813.	2.9	239
4	Nitric oxide induces oxidative stress and apoptosis in neuronal cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2000, 1498, 72-79.	4.1	164
5	Nitric oxide controls nuclear export of APE1/Ref-1 through S-nitrosation of Cysteines 93 and 310. <i>Nucleic Acids Research</i> , 2007, 35, 2522-2532.	14.5	97
6	An ascorbate-dependent artifact that interferes with the interpretation of the biotin switch assay. <i>Free Radical Biology and Medicine</i> , 2006, 41, 562-567.	2.9	95
7	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
8	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
9	HYDROGEN PEROXIDE-INDUCED OXIDATIVE DAMAGE AND APOPTOSIS IN CEREBELLAR GRANULE CELLS: PROTECTION BY GINKGO BILOBA EXTRACT. <i>Pharmacological Research</i> , 2000, 41, 427-433.	7.1	78
10	Mechanisms of apoptosis in rat cerebellar granule cells induced by hydroxyl radicals and the effects of EGb761 and its constituents. <i>Toxicology</i> , 2000, 148, 103-110.	4.2	61
11	Construction of a two-dimensional artificial antioxidant for nanocatalytic rheumatoid arthritis treatment. <i>Nature Communications</i> , 2022, 13, 1988.	12.8	59
12	Detection of Protein S-Nitrosation using Irreversible Biotinylation Procedures (IBP). <i>Free Radical Biology and Medicine</i> , 2010, 49, 447-456.	2.9	57
13	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
14	Molecular insights into the membrane-associated phosphatidylinositol 4-kinase III $\beta$ . <i>Nature Communications</i> , 2014, 5, 3552.	12.8	52
15	Precision Redox: The Key for Antioxidant Pharmacology. <i>Antioxidants and Redox Signaling</i> , 2021, 34, 1069-1082.	5.4	50
16	ATF6 safeguards organelle homeostasis and cellular aging in human mesenchymal stem cells. <i>Cell Discovery</i> , 2018, 4, 2.	6.7	49
17	Repression of classical nuclear export by S-nitrosylation of CRM1. <i>Journal of Cell Science</i> , 2009, 122, 3772-3779.	2.0	45
18	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. <i>Journal of Agricultural and Food Chemistry</i> , 2000, 48, 5710-5714.	5.2	44

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19	Nitric Oxide Destabilizes Pias3 and Regulates Sumoylation. <i>PLoS ONE</i> , 2007, 2, e1085.	2.5	44
20	Detergent-free biotin switch combined with liquid chromatography/tandem mass spectrometry in the analysis of S-nitrosylated proteins. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 1137-1145.	1.5	42
21	NADPH oxidase 4 mediates reactive oxygen species induction of CD146 dimerization in VEGF signal transduction. <i>Free Radical Biology and Medicine</i> , 2010, 49, 227-236.	2.9	38
22	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
23	On-gel fluorescent visualization and the site identification of S-nitrosylated proteins. <i>Analytical Biochemistry</i> , 2008, 377, 150-155.	2.4	34
24	Pro-inflammatory Macrophages suppress PPAR $\beta$ activity in Adipocytes via S-nitrosylation. <i>Free Radical Biology and Medicine</i> , 2015, 89, 895-905.	2.9	32
25	ESNOQ, Proteomic Quantification of Endogenous S-Nitrosation. <i>PLoS ONE</i> , 2010, 5, e10015.	2.5	32
26	NMR-based metabolomic analyses of the effects of ultrasmall superparamagnetic particles of iron oxide (USPIO) on macrophage metabolism. <i>Journal of Nanoparticle Research</i> , 2011, 13, 2049-2062.	1.9	28
27	S-nitrosation impairs KLF4 activity and instigates endothelial dysfunction in pulmonary arterial hypertension. <i>Redox Biology</i> , 2019, 21, 101099.	9.0	28
28	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
29	Different effects of the constituents of ECb761 on apoptosis in rat cerebellar granule cells induced by hydroxyl radicals. <i>IUBMB Life</i> , 1999, 47, 397-405.	3.4	27
30	Lipin proteins form homo- and hetero-oligomers. <i>Biochemical Journal</i> , 2010, 432, 65-76.	3.7	27
31	PI-273, a Substrate-Competitive, Specific Small-Molecule Inhibitor of PI4KIII $\alpha$ , Inhibits the Growth of Breast Cancer Cells. <i>Cancer Research</i> , 2017, 77, 6253-6266.	0.9	27
32	Increased GSNOR Expression during Aging Impairs Cognitive Function and Decreases S-Nitrosation of CaMKII $\alpha$ . <i>Journal of Neuroscience</i> , 2017, 37, 9741-9758.	3.6	24
33	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
34	The endoplasmic reticulum-related events in S-nitrosoglutathione-induced neurotoxicity in cerebellar granule cells. <i>Brain Research</i> , 2004, 1015, 25-33.	2.2	23
35	Nitric oxide metabolism controlled by formaldehyde dehydrogenase (fdh, homolog of mammalian) Tj ETQq1 1 0.784314 rgBT /Overlook <i>Chemistry</i> , 2011, 24, 17-24.	2.7	23
36	Quantitative proteomic analysis of S-nitrosated proteins in diabetic mouse liver with ICAT switch method. <i>Protein and Cell</i> , 2010, 1, 675-687.	11.0	22

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37	S-Glutathionylation of human inducible Hsp70 reveals a regulatory mechanism involving the C-terminal 1±-helical lid. <i>Journal of Biological Chemistry</i> , 2020, 295, 8302-8324.	3.4	22
38	SLC-30A9 is required for Zn <sup>2+</sup> homeostasis, Zn <sup>2+</sup> mobilization, and mitochondrial health. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	21
39	A Novel Suppressive Effect of Alcohol Dehydrogenase 5 in Neuronal Differentiation. <i>Journal of Biological Chemistry</i> , 2014, 289, 20193-20199.	3.4	19
40	Dual inhibition of EGFR at protein and activity level via combinatorial blocking of PI4KII± as anti-tumor strategy. <i>Protein and Cell</i> , 2014, 5, 457-468.	11.0	18
41	SNObase, a database for S-nitrosation modification. <i>Protein and Cell</i> , 2012, 3, 929-933.	11.0	16
42	An extract of <i>Lycium barbarum</i> mimics exercise to improve muscle endurance through increasing type IIa oxidative muscle fibers by activating ERR1³. <i>FASEB Journal</i> , 2020, 34, 11460-11473.	0.5	16
43	Preparative Separation of Flavonoids from Goji Berries by Mixed-Mode Macroporous Adsorption Resins and Effect on A1²-Expressing and Anti-Aging Genes. <i>Molecules</i> , 2020, 25, 3511.	3.8	16
44	Protein S-nitrosylation regulates proteostasis and viability of hematopoietic stem cell during regeneration. <i>Cell Reports</i> , 2021, 34, 108922.	6.4	13
45	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
46	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
47	ER reductive stress caused by Ero1± S-nitrosation accelerates senescence. <i>Free Radical Biology and Medicine</i> , 2022, 180, 165-178.	2.9	12
48	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
49	A <i>Lycium barbarum</i> extract inhibits 1²amyloid 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
50	Long noncoding RNA MAGI2-AS3 regulates the H2O2 level and cell senescence via HSPA8. <i>Redox Biology</i> , 2022, 54, 102383.	9.0	11
51	Reduction of PCN biosynthesis by NO in <i>Pseudomonas aeruginosa</i> . <i>Redox Biology</i> , 2016, 8, 252-258.	9.0	10
52	SNO spectral counting (SNOSC), a label-free proteomic method for quantification of changes in levels of protein S-nitrosation. <i>Free Radical Research</i> , 2012, 46, 1044-1050.	3.3	9
53	GSNOR facilitates antiviral innate immunity by restricting TBK1 cysteine S-nitrosation. <i>Redox Biology</i> , 2021, 47, 102172.	9.0	9
54	PI4KII± regulates insulin secretion and glucose homeostasis via a PKD-dependent pathway. <i>Biophysics Reports</i> , 2018, 4, 25-38.	0.8	7

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55	Elevated serum 4HNE plus decreased serum thioredoxin: Unique feature and implications for acute exacerbation of chronic obstructive pulmonary disease. PLoS ONE, 2021, 16, e0245810.	2.5	6
56	Redox environment metabolomic evaluation (REME) of the heart after myocardial ischemia/reperfusion injury. Free Radical Biology and Medicine, 2021, 173, 7-18.	2.9	6
57	GAPDH S-nitrosation contributes to age-related sarcopenia through mediating apoptosis. Nitric Oxide - Biology and Chemistry, 2022, 120, 1-8.	2.7	6
58	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
59	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
60	A Photoelectric Method for Analyzing NO-Induced Apoptosis in Cultured Neuronal Cells. Electroanalysis, 2000, 12, 1414-1418.	2.9	3
61	Nitric oxide damages neuronal mitochondria and induces apoptosis in neurons. Science Bulletin, 2000, 45, 422-426.	1.7	3
62	Puzzle out the regulation mechanism of PI4KIII $\alpha$ activity. Science China Life Sciences, 2014, 57, 636-638.	4.9	3
63	Function and Mechanism of Nitric Oxide (I) $\alpha$ Characteristics and Function. Sheng Wu Wu Li Hsueh Bao, 2013, 28, 173-184.	0.1	2
64	Radiolysis of glycyrrhizic acid monoammonium in N <sub>2</sub> O saturated aqueous solution. A product and pulse radiolysis study. Radiation Physics and Chemistry, 1998, 51, 49-55.	2.8	1
65	EPC-K1 protects neuronal cells from peroxynitrite-mediated oxidative damage. Research on Chemical Intermediates, 2000, 26, 667-677.	2.7	1
66	Function and Mechanism of Nitric Oxide (I) $\alpha$ Mechanism and Protein S-Nitrosation. Sheng Wu Wu Li Hsueh Bao, 2012, 28, 268.	0.1	1
67	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
68	Optimization of a Glutamate Excitotoxicity Model in Cultured Cerebellar Granule Neurons. Acta Agronomica Sinica(China), 2013, 40, 775.	0.3	0
69	GSNOR:a Novel Regulator of Inflammation. Acta Agronomica Sinica(China), 2013, 40, 731.	0.3	0