

# Jun Lu

## List of Publications by Year in descending order

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57  
papers

8,538  
citations

100601

38  
h-index

169272

56  
g-index

60  
all docs

60  
docs citations

60  
times ranked

12109  
citing authors

#	ARTICLE	IF	CITATIONS
1	A fluorescent probe for specifically measuring the overall thioredoxin and glutaredoxin reducing activity in bacterial cells. <i>Analyst, The</i> , 2022, 147, 834-840.	1.7	7
2	A Fluorescent Probe to Detect Quick Disulfide Reductase Activity in Bacteria. <i>Antioxidants</i> , 2022, 11, 377.	2.2	5
3	Selenium Status in Diet Affects Nephrotoxicity Induced by Cisplatin in Mice. <i>Antioxidants</i> , 2022, 11, 1141.	2.2	2
4	Selenium Status in Diet Affects Acetaminophen-Induced Hepatotoxicity <i>via</i> Interruption of Redox Environment. <i>Antioxidants and Redox Signaling</i> , 2021, 34, 1355-1367.	2.5	13
5	Therapy Based on the Regulation of Thiol-dependent Redox Systems. <i>Current Medicinal Chemistry</i> , 2020, 27, 1876-1877.	1.2	0
6	Inhibition of thioredoxin reductase 1 correlates with platinum-based chemotherapeutic induced tissue injury. <i>Biochemical Pharmacology</i> , 2020, 175, 113873.	2.0	16
7	The Role and Mechanism of Thiol-Dependent Antioxidant System in Bacterial Drug Susceptibility and Resistance. <i>Current Medicinal Chemistry</i> , 2020, 27, 1940-1954.	1.2	5
8	Characterization of synergistic antibacterial effect of silver nanoparticles and ebselen. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2019, 47, 3338-3349.	1.9	10
9	The production of reactive oxygen species enhanced with the reduction of menadione by active thioredoxin reductase. <i>Metallomics</i> , 2019, 11, 1490-1497.	1.0	25
10	The combination of ascorbate and menadione causes cancer cell death by oxidative stress and replicative stress. <i>Free Radical Biology and Medicine</i> , 2019, 134, 350-358.	1.3	42
11	Characterization of mammalian glutaredoxin isoforms as S-nitrosylases. <i>FEBS Letters</i> , 2019, 593, 1799-1806.	1.3	25
12	Topical Therapeutic Efficacy of Ebselen Against Multidrug-Resistant <i>Staphylococcus aureus</i> LT-1 Targeting Thioredoxin Reductase. <i>Frontiers in Microbiology</i> , 2019, 10, 3016.	1.5	33
13	Modulation of thiol-dependent redox system by metal ions <i>via</i> thioredoxin and glutaredoxin systems. <i>Metallomics</i> , 2018, 10, 218-228.	1.0	83
14	Selenocysteine in mammalian thioredoxin reductase and application of ebselen as a therapeutic. <i>Free Radical Biology and Medicine</i> , 2018, 127, 238-247.	1.3	98
15	Synergistic antibacterial activity of silver with antibiotics correlating with the upregulation of the ROS production. <i>Scientific Reports</i> , 2018, 8, 11131.	1.6	65
16	Inhibition of the glutaredoxin and thioredoxin systems and ribonucleotide reductase by mutant p53-targeting compound APR-246. <i>Scientific Reports</i> , 2018, 8, 12671.	1.6	53
17	Thioredoxin 1 modulates apoptosis induced by bioactive compounds in prostate cancer cells. <i>Redox Biology</i> , 2017, 12, 634-647.	3.9	55
18	Redox Signaling Mediated by Thioredoxin and Glutathione Systems in the Central Nervous System. <i>Antioxidants and Redox Signaling</i> , 2017, 27, 989-1010.	2.5	233

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19	Synergistic antibacterial effect of silver and ebselen against multidrug-resistant Gram-negative bacterial infections. <i>EMBO Molecular Medicine</i> , 2017, 9, 1165-1178.	3.3	65
20	Impaired cross-talk between the thioredoxin and glutathione systems is related to ASK-1 mediated apoptosis in neuronal cells exposed to mercury. <i>Redox Biology</i> , 2017, 13, 278-287.	3.9	72
21	Cellular Redox Systems Impact the Aggregation of Cu,Zn Superoxide Dismutase Linked to Familial Amyotrophic Lateral Sclerosis. <i>Journal of Biological Chemistry</i> , 2016, 291, 17197-17208.	1.6	20
22	Nitric Oxide Protects against Infection-Induced Neuroinflammation by Preserving the Stability of the Blood-Brain Barrier. <i>PLoS Pathogens</i> , 2016, 12, e1005442.	2.1	53
23	Thioredoxin-dependent regulation of AIF-mediated DNA damage. <i>Free Radical Biology and Medicine</i> , 2015, 87, 125-136.	1.3	35
24	Toxicological effects of thiomersal and ethylmercury: Inhibition of the thioredoxin system and NADP+-dependent dehydrogenases of the pentose phosphate pathway. <i>Toxicology and Applied Pharmacology</i> , 2015, 286, 216-223.	1.3	30
25	Oxidation of structural cysteine residues in thioredoxin 1 by aromatic arsenicals enhances cancer cell cytotoxicity caused by the inhibition of thioredoxin reductase 1. <i>Free Radical Biology and Medicine</i> , 2015, 89, 192-200.	1.3	27
26	The thioredoxin antioxidant system. <i>Free Radical Biology and Medicine</i> , 2014, 66, 75-87.	1.3	1,476
27	Mitochondrial thioredoxin reductase inhibition, selenium status, and Nrf-2 activation are determinant factors modulating the toxicity of mercury compounds. <i>Free Radical Biology and Medicine</i> , 2014, 73, 95-105.	1.3	85
28	The Thioredoxin Superfamily in Oxidative Protein Folding. <i>Antioxidants and Redox Signaling</i> , 2014, 21, 457-470.	2.5	111
29	Glutaredoxin 2 Reduces Both Thioredoxin 2 and Thioredoxin 1 and Protects Cells from Apoptosis Induced by Auranofin and 4-Hydroxynonenal. <i>Antioxidants and Redox Signaling</i> , 2014, 21, 669-681.	2.5	64
30	Activity assays of mammalian thioredoxin and thioredoxin reductase: Fluorescent disulfide substrates, mechanisms, and use with tissue samples. <i>Analytical Biochemistry</i> , 2014, 449, 139-146.	1.1	43
31	Ebsulfur Is a Benzisothiazolone Cytocidal Inhibitor Targeting the Trypanothione Reductase of <i>Trypanosoma brucei</i> . <i>Journal of Biological Chemistry</i> , 2013, 288, 27456-27468.	1.6	46
32	Inhibition of bacterial thioredoxin reductase: an antibiotic mechanism targeting bacteria lacking glutathione. <i>FASEB Journal</i> , 2013, 27, 1394-1403.	0.2	141
33	Thioredoxin 1 Is Inactivated Due to Oxidation Induced by Peroxiredoxin under Oxidative Stress and Reactivated by the Glutaredoxin System. <i>Journal of Biological Chemistry</i> , 2013, 288, 32241-32247.	1.6	83
34	Biomarkers of Adverse Response to Mercury: Histopathology versus Thioredoxin Reductase Activity. <i>Journal of Biomedicine and Biotechnology</i> , 2012, 2012, 1-9.	3.0	26
35	Glutathione and Glutaredoxin Act as a Backup of Human Thioredoxin Reductase 1 to Reduce Thioredoxin 1 Preventing Cell Death by Aurothioglucose. <i>Journal of Biological Chemistry</i> , 2012, 287, 38210-38219.	1.6	189
36	<i>Bacillus anthracis</i> Thioredoxin Systems, Characterization and Role as Electron Donors for Ribonucleotide Reductase. <i>Journal of Biological Chemistry</i> , 2012, 287, 39686-39697.	1.6	33

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37	Thioredoxin System in Cell Death Progression. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 1738-1747.	2.5	236
38	A New Mechanism of Action for the Anticancer Drug Mitomycin C: Mechanism-Based Inhibition of Thioredoxin Reductase. <i>Chemical Research in Toxicology</i> , 2012, 25, 1502-1511.	1.7	89
39	Mercury and selenium interaction in vivo: Effects on thioredoxin reductase and glutathione peroxidase. <i>Free Radical Biology and Medicine</i> , 2012, 52, 781-793.	1.3	147
40	Disruption of the mitochondrial thioredoxin system as a cell death mechanism of cationic triphenylmethanes. <i>Free Radical Biology and Medicine</i> , 2011, 50, 811-820.	1.3	54
41	Effects of selenite and chelating agents on mammalian thioredoxin reductase inhibited by mercury: implications for treatment of mercury poisoning. <i>FASEB Journal</i> , 2011, 25, 370-381.	0.2	104
42	Quercetin activates AMP-activated protein kinase by reducing PP2C expression protecting old mouse brain against high cholesterol-induced neurotoxicity. <i>Journal of Pathology</i> , 2010, 222, 199-212.	2.1	159
43	Mutations in the selenocysteine insertion sequence-binding protein 2 gene lead to a multisystem selenoprotein deficiency disorder in humans. <i>Journal of Clinical Investigation</i> , 2010, 120, 4220-4235.	3.9	268
44	SECIS-Binding Protein 2 Promotes Cell Survival by Protecting Against Oxidative Stress. <i>Antioxidants and Redox Signaling</i> , 2010, 12, 797-808.	2.5	19
45	Thioredoxin and thioredoxin reductase: Current research with special reference to human disease. <i>Biochemical and Biophysical Research Communications</i> , 2010, 396, 120-124.	1.0	484
46	The Thioredoxin-like Protein Rod-derived Cone Viability Factor (RdCVFL) Interacts with TAU and Inhibits Its Phosphorylation in the Retina. <i>Molecular and Cellular Proteomics</i> , 2009, 8, 1206-1218.	2.5	52
47	Penultimate selenocysteine residue replaced by cysteine in thioredoxin reductase from selenium-deficient rat liver. <i>FASEB Journal</i> , 2009, 23, 2394-2402.	0.2	58
48	Selenoproteins. <i>Journal of Biological Chemistry</i> , 2009, 284, 723-727.	1.6	554
49	Metabolism of selenium compounds catalyzed by the mammalian selenoprotein thioredoxin reductase. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2009, 1790, 1513-1519.	1.1	92
50	Inhibition of the Human Thioredoxin System. <i>Journal of Biological Chemistry</i> , 2008, 283, 11913-11923.	1.6	406
51	Thioredoxin reductase inhibition by antitumor quinols: a quinol pharmacophore effect correlating to antiproliferative activity. <i>FASEB Journal</i> , 2008, 22, 2072-2083.	0.2	51
52	From Selenium to Selenoproteins: Synthesis, Identity, and Their Role in Human Health. <i>Antioxidants and Redox Signaling</i> , 2007, 9, 775-806.	2.5	1,089
53	High-resolution structures of oxidized and reduced thioredoxin reductase from <i>Helicobacter pylori</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007, 63, 833-843.	2.5	30
54	Targeting thioredoxin reductase is a basis for cancer therapy by arsenic trioxide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12288-12293.	3.3	444

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55	Inhibition of Mammalian Thioredoxin Reductase by Some Flavonoids: Implications for Myricetin and Quercetin Anticancer Activity. <i>Cancer Research</i> , 2006, 66, 4410-4418.	0.4	286
56	The Redox State of SECIS Binding Protein 2 Controls Its Localization and Selenocysteine Incorporation Function. <i>Molecular and Cellular Biology</i> , 2006, 26, 4895-4910.	1.1	96
57	Thioredoxin Reductase Is Irreversibly Modified by Curcumin. <i>Journal of Biological Chemistry</i> , 2005, 280, 25284-25290.	1.6	449