

# Jian-Guo Fang

## List of Publications by Year in descending order

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111  
papers

7,261  
citations

61984

43  
h-index

58581

82  
g-index

112  
all docs

112  
docs citations

112  
times ranked

8363  
citing authors

#	ARTICLE	IF	CITATIONS
1	S-Nitrosylation of Drp1 Mediates $\beta$ -Amyloid-Related Mitochondrial Fission and Neuronal Injury. <i>Science</i> , 2009, 324, 102-105.	12.6	957
2	Thioredoxin Reductase Is Irreversibly Modified by Curcumin. <i>Journal of Biological Chemistry</i> , 2005, 280, 25284-25290.	3.4	449
3	Targeting the Thioredoxin System for Cancer Therapy. <i>Trends in Pharmacological Sciences</i> , 2017, 38, 794-808.	8.7	314
4	Inhibition of Mammalian Thioredoxin Reductase by Some Flavonoids: Implications for Myricetin and Quercetin Anticancer Activity. <i>Cancer Research</i> , 2006, 66, 4410-4418.	0.9	286
5	S-nitrosylation of peroxiredoxin 2 promotes oxidative stress-induced neuronal cell death in Parkinson's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18742-18747.	7.1	226
6	Fluorescein-Based Chromogenic and Ratiometric Fluorescence Probe for Highly Selective Detection of Cysteine and Its Application in Bioimaging. <i>Analytical Chemistry</i> , 2017, 89, 1937-1944.	6.5	216
7	Highly Selective Off-Target Fluorescent Probe for Imaging Thioredoxin Reductase in Living Cells. <i>Journal of the American Chemical Society</i> , 2014, 136, 226-233.	13.7	211
8	Selective Selenol Fluorescent Probes: Design, Synthesis, Structural Determinants, and Biological Applications. <i>Journal of the American Chemical Society</i> , 2015, 137, 757-769.	13.7	164
9	Antioxidant Effects of Resveratrol and its Analogues against the Free-Radical-Induced Peroxidation of Linoleic Acid in Micelles. <i>Chemistry - A European Journal</i> , 2002, 8, 4191-4198.	3.3	162
10	Small molecule inhibitors of mammalian thioredoxin reductase. <i>Free Radical Biology and Medicine</i> , 2012, 52, 257-265.	2.9	155
11	Inhibition of Thioredoxin and Thioredoxin Reductase by 4-Hydroxy-2-nonenal in Vitro and in Vivo. <i>Journal of the American Chemical Society</i> , 2006, 128, 1879-1885.	13.7	153
12	Shikonin targets cytosolic thioredoxin reductase to induce ROS-mediated apoptosis in human promyelocytic leukemia HL-60 cells. <i>Free Radical Biology and Medicine</i> , 2014, 70, 182-193.	2.9	153
13	Synthesis of Xanthohumol Analogues and Discovery of Potent Thioredoxin Reductase Inhibitor as Potential Anticancer Agent. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 1795-1805.	6.4	138
14	Xanthohumol, a Polyphenol Chalcone Present in Hops, Activating Nrf2 Enzymes To Confer Protection against Oxidative Damage in PC12 Cells. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 1521-1531.	5.2	133
15	Nrf2: a dark horse in Alzheimer's disease treatment. <i>Ageing Research Reviews</i> , 2020, 64, 101206.	10.9	131
16	Visible-light-mediated aerobic selenation of (hetero)arenes with diselenides. <i>Green Chemistry</i> , 2017, 19, 5559-5563.	9.0	120
17	Small molecule inhibitors of mammalian thioredoxin reductase as potential anticancer agents: An update. <i>Medicinal Research Reviews</i> , 2019, 39, 5-39.	10.5	120
18	Gambogic acid induces apoptosis in hepatocellular carcinoma SMMC-7721 cells by targeting cytosolic thioredoxin reductase. <i>Free Radical Biology and Medicine</i> , 2014, 69, 15-25.	2.9	117

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19	Synthesis of Piperlongumine Analogues and Discovery of Nuclear Factor Erythroid 2-Related Factor 2 (Nrf2) Activators as Potential Neuroprotective Agents. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 5242-5255.	6.4	115
20	Dithiaarsanes Induce Oxidative Stress-Mediated Apoptosis in HL-60 Cells by Selectively Targeting Thioredoxin Reductase. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 5203-5211.	6.4	111
21	Small molecules regulating reactive oxygen species homeostasis for cancer therapy. <i>Medicinal Research Reviews</i> , 2021, 41, 342-394.	10.5	107
22	Targeting Thioredoxin Reductase by Parthenolide Contributes to Inducing Apoptosis of HeLa Cells. <i>Journal of Biological Chemistry</i> , 2016, 291, 10021-10031.	3.4	101
23	Curcumin targeting the thioredoxin system elevates oxidative stress in HeLa cells. <i>Toxicology and Applied Pharmacology</i> , 2012, 262, 341-348.	2.8	96
24	Dual protection of hydroxytyrosol, an olive oil polyphenol, against oxidative damage in PC12 cells. <i>Food and Function</i> , 2015, 6, 2091-2100.	4.6	89
25	Inhibition of thioredoxin reductase by alantolactone prompts oxidative stress-mediated apoptosis of HeLa cells. <i>Biochemical Pharmacology</i> , 2016, 102, 34-44.	4.4	86
26	Activation of Nrf2-driven antioxidant enzymes by cardamonin confers neuroprotection of PC12 cells against oxidative damage. <i>Food and Function</i> , 2017, 8, 997-1007.	4.6	81
27	Thioredoxin reductase inhibitors: a patent review. <i>Expert Opinion on Therapeutic Patents</i> , 2017, 27, 547-556.	5.0	77
28	A fast and specific fluorescent probe for thioredoxin reductase that works via disulphide bond cleavage. <i>Nature Communications</i> , 2019, 10, 2745.	12.8	70
29	Selective Activation of a Prodrug by Thioredoxin Reductase Providing a Strategy to Target Cancer Cells. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6141-6145.	13.8	69
30	Activation of Nrf2 target enzymes conferring protection against oxidative stress in PC12 cells by ginger principal constituent 6-shogaol. <i>Food and Function</i> , 2015, 6, 2813-2823.	4.6	65
31	Small molecule fluorescent probes of protein vicinal dithiols. <i>Chinese Chemical Letters</i> , 2019, 30, 1704-1716.	9.0	65
32	Reversing ROS-mediated neurotoxicity by chlorogenic acid involves its direct antioxidant activity and activation of Nrf2-ARE signaling pathway. <i>BioFactors</i> , 2019, 45, 616-626.	5.4	65
33	Honokiol Alleviates Oxidative Stress-Induced Neurotoxicity via Activation of Nrf2. <i>ACS Chemical Neuroscience</i> , 2018, 9, 3108-3116.	3.5	64
34	A fluorescein-based chemosensor for relay fluorescence recognition of Cu(II) ions and biothiols in water and its applications to a molecular logic gate and living cell imaging. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 4115-4121.	2.8	63
35	A small molecule probe reveals declined mitochondrial thioredoxin reductase activity in a Parkinson's disease model. <i>Chemical Communications</i> , 2016, 52, 2296-2299.	4.1	60
36	Promotion of HeLa cells apoptosis by cynaropicrin involving inhibition of thioredoxin reductase and induction of oxidative stress. <i>Free Radical Biology and Medicine</i> , 2019, 135, 216-226.	2.9	55

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37	A water-soluble dual-site fluorescent probe for the rapid detection of cysteine with high sensitivity and specificity. <i>Chemical Communications</i> , 2019, 55, 11762-11765.	4.1	51
38	Naphthalimide Scaffold Provides Versatile Platform for Selective Thiol Sensing and Protein Labeling. <i>ACS Chemical Biology</i> , 2016, 11, 1098-1105.	3.4	49
39	Natural Molecules Targeting Thioredoxin System and Their Therapeutic Potential. <i>Antioxidants and Redox Signaling</i> , 2021, 34, 1083-1107.	5.4	49
40	Ebselen: A thioredoxin reductase-dependent catalyst for $\hat{\alpha}$ -tocopherol quinone reduction. <i>Toxicology and Applied Pharmacology</i> , 2005, 207, 103-109.	2.8	48
41	Securinine disturbs redox homeostasis and elicits oxidative stress-mediated apoptosis via targeting thioredoxin reductase. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 129-138.	3.8	48
42	Activation of the Phase II Enzymes for Neuroprotection by Ginger Active Constituent 6-Dehydrogingerdione in PC12 Cells. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 5507-5518.	5.2	47
43	A fast response and red emission probe for mammalian thioredoxin reductase. <i>Chemical Communications</i> , 2016, 52, 12060-12063.	4.1	45
44	Isolation, Identification, and Activity Evaluation of Chemical Constituents from Soil Fungus <i>Fusarium avenaceum</i> SF-1502 and Endophytic Fungus <i>Fusarium proliferatum</i> AF-04. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 1839-1846.	5.2	39
45	Sesquiterpenoids and tirucallane triterpenoids from the roots of <i>Scorzonera divaricata</i> . <i>Phytochemistry</i> , 2016, 124, 86-98.	2.9	38
46	A specific fluorescent probe reveals compromised activity of methionine sulfoxide reductases in Parkinson's disease. <i>Chemical Science</i> , 2017, 8, 2966-2972.	7.4	38
47	A selective colorimetric and red-emitting fluorometric probe for sequential detection of Cu <sup>2+</sup> and H <sub>2</sub> S. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 3155-3162.	7.8	38
48	Combination of chemotherapy and oxidative stress to enhance cancer cell apoptosis. <i>Chemical Science</i> , 2020, 11, 3215-3222.	7.4	38
49	Activation of Nrf2 by costunolide provides neuroprotective effect in PC12 cells. <i>Food and Function</i> , 2019, 10, 4143-4152.	4.6	37
50	A thiol-thiosulfonate reaction providing a novel strategy for turn-on thiol sensing. <i>Chemical Communications</i> , 2015, 51, 14913-14916.	4.1	35
51	Redox-Dependent Copper Carrier Promotes Cellular Copper Uptake and Oxidative Stress-Mediated Apoptosis of Cancer Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 33010-33021.	8.0	35
52	A selective and sensitive fluorescence probe for imaging endogenous zinc in living cells. <i>Tetrahedron</i> , 2013, 69, 15-21.	1.9	34
53	Xanthatin Promotes Apoptosis via Inhibiting Thioredoxin Reductase and Eliciting Oxidative Stress. <i>Molecular Pharmaceutics</i> , 2018, 15, 3285-3296.	4.6	34
54	An Iminocoumarin Sulfonamide Based Turn-On Fluorescent Probe for the Detection of Biothiols in Aqueous Solution. <i>Chemistry - an Asian Journal</i> , 2015, 10, 422-426.	3.3	32

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55	Targeting thioredoxin reductase by plumbagin contributes to inducing apoptosis of HL-60 cells. Archives of Biochemistry and Biophysics, 2017, 619, 16-26.	3.0	30
56	Small Molecules to Target the Selenoprotein Thioredoxin Reductase. Chemistry - an Asian Journal, 2018, 13, 3593-3600.	3.3	30
57	Sanguinarine as a new chemical entity of thioredoxin reductase inhibitor to elicit oxidative stress and promote tumor cell apoptosis. Free Radical Biology and Medicine, 2020, 152, 659-667.	2.9	30
58	Individual and successive detection of H <sub>2</sub> S and HClO in living cells and zebrafish by a dual-channel fluorescent probe with longer emission wavelength. Analytica Chimica Acta, 2021, 1156, 338362.	5.4	28
59	Lipoamide Ameliorates Oxidative Stress via Induction of Nrf2/ARE Signaling Pathway in PC12 Cells. Journal of Agricultural and Food Chemistry, 2019, 67, 8227-8234.	5.2	27
60	Neuroprotection of mangiferin against oxidative damage via arousing Nrf2 signaling pathway in PC12 cells. BioFactors, 2019, 45, 381-392.	5.4	27
61	An ultrafast turn-on thiol probe for protein labeling and bioimaging. Analyst, The, 2016, 141, 2009-2015.	3.5	26
62	Fluorophore-Dependent Cleavage of Disulfide Bond Leading to a Highly Selective Fluorescent Probe of Thioredoxin. Analytical Chemistry, 2019, 91, 8524-8531.	6.5	26
63	Increased O-GlcNAcylation of Drp1 by amyloid-beta promotes mitochondrial fission and dysfunction in neuronal cells. Molecular Brain, 2021, 14, 6.	2.6	26
64	Synthesis of naphthazarin derivatives and identification of novel thioredoxin reductase inhibitor as potential anticancer agent. European Journal of Medicinal Chemistry, 2017, 140, 435-447.	5.5	23
65	Xanthohumol Analogues as Potent Nrf2 Activators against Oxidative Stress Mediated Damages of PC12 Cells. ACS Chemical Neuroscience, 2019, 10, 2956-2966.	3.5	23
66	Design, synthesis and biological evaluation of novel sesquiterpene mustards as potential anticancer agents. European Journal of Medicinal Chemistry, 2015, 94, 284-297.	5.5	22
67	Bioassay-guided isolation of dehydrocostus lactone from Saussurea lappa: A new targeted cytosolic thioredoxin reductase anticancer agent. Archives of Biochemistry and Biophysics, 2016, 607, 20-26.	3.0	22
68	A novel AIEgen-based probe for detecting cysteine in lipid droplets. Analytica Chimica Acta, 2020, 1127, 20-28.	5.4	22
69	Highly selective fluorometric probes for detection of HClO in living cells. Sensors and Actuators B: Chemical, 2018, 266, 447-454.	7.8	21
70	Progress and perspective on hydrogen sulfide donors and their biomedical applications. Medicinal Research Reviews, 2022, 42, 1930-1977.	10.5	21
71	(±)-Alternamgin, a Pair of Enantiomeric Polyketides, from the Endophytic Fungi <i>Alternaria</i> sp. MG1. Organic Letters, 2019, 21, 1551-1554.	4.6	19
72	Decrease of Protein Vicinal Dithiols in Parkinsonism Disclosed by a Monoarsenical Fluorescent Probe. Analytical Chemistry, 2020, 92, 4371-4378.	6.5	19

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73	Synthesis and characterization of PEG-conjugated quaternized chitosan and its application as a gene vector. <i>Carbohydrate Polymers</i> , 2014, 103, 566-572.	10.2	18
74	Selective Activation of a Prodrug by Thioredoxin Reductase Providing a Strategy to Target Cancer Cells. <i>Angewandte Chemie</i> , 2018, 130, 6249-6253.	2.0	18
75	Loss of thioredoxin reductase function in a mouse stroke model disclosed by a two-photon fluorescent probe. <i>Chemical Communications</i> , 2020, 56, 14075-14078.	4.1	18
76	Two chemodosimeters for fluorescence recognition of biothiols in aqueous solution and their bioimaging application. <i>Tetrahedron</i> , 2019, 75, 130477.	1.9	17
77	Synthesis of Dithiolethiones and Identification of Potential Neuroprotective Agents via Activation of Nrf2-Driven Antioxidant Enzymes. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 2214-2231.	5.2	17
78	Integration of a Diselenide Unit Generates Fluorogenic Camptothecin Prodrugs with Improved Cytotoxicity to Cancer Cells. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 17979-17991.	6.4	17
79	A cellular model for screening neuronal nitric oxide synthase inhibitors. <i>Analytical Biochemistry</i> , 2009, 390, 74-78.	2.4	16
80	Diverse anti-inflammation and anti-cancer polyketides isolated from the endophytic fungi <i>Alternaria</i> sp. MG1. <i>FÄ-toterapÄ-Äç</i> , 2021, 153, 105000.	2.2	16
81	Structural Modification of Aminophenylarsenoxides Generates Candidates for Leukemia Treatment <i>via</i> Thioredoxin Reductase Inhibition. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 16132-16146.	6.4	16
82	3,4,4- <sup>2</sup> -Trihydroxy-trans-stilbene, an analogue of resveratrol, is a potent antioxidant and cytotoxic agent. <i>Free Radical Research</i> , 2011, 45, 1379-1387.	3.3	15
83	Virtual screening-guided discovery of thioredoxin reductase inhibitors. <i>Toxicology and Applied Pharmacology</i> , 2019, 370, 106-116.	2.8	15
84	Oat polyphenol avenanthramide-2c confers protection from oxidative stress by regulating the Nrf2-ARE signaling pathway in PC12 cells. <i>Archives of Biochemistry and Biophysics</i> , 2021, 706, 108857.	3.0	15
85	Indole Alkaloids from a Soil-Derived <i>Clonostachys rosea</i> . <i>Journal of Natural Products</i> , 2021, 84, 2468-2474.	3.0	15
86	Efficient construction of the A/C/D tricyclic skeleton of palhinine A. <i>Organic Chemistry Frontiers</i> , 2016, 3, 1137-1143.	4.5	14
87	Onopordopicrin from the new genus <i>Shangwua</i> as a novel thioredoxin reductase inhibitor to induce oxidative stress-mediated tumor cell apoptosis. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021, 36, 790-801.	5.2	14
88	A ratiometric fluorescent probe of methionine sulfoxide reductase with an improved response rate and emission wavelength. <i>Chemical Communications</i> , 2019, 55, 1502-1505.	4.1	13
89	Inhibition of Thioredoxin Reductase by Santamarine Conferring Anticancer Effect in HeLa Cells. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 710676.	3.5	13
90	Targeting thioredoxin reductase by micheliolide contributes to radiosensitizing and inducing apoptosis of HeLa cells. <i>Free Radical Biology and Medicine</i> , 2022, 186, 99-109.	2.9	13

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91	Synthesis and biological studies of the thiols-triggered anticancer prodrug for a more effective cancer therapy. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 2634-2639.	2.8	12
92	L337H Mutant of Rat Neuronal Nitric Oxide Synthase Resembles Human Neuronal Nitric Oxide Synthase toward Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 4533-4537.	6.4	11
93	Depletion of protein thiols and the accumulation of oxidized thioredoxin in Parkinsonism disclosed by a red-emitting and environment-sensitive probe. <i>Journal of Materials Chemistry B</i> , 2019, 7, 2696-2702.	5.8	11
94	Generation of potent Nrf2 activators via tuning the electrophilicity and steric hindrance of vinyl sulfones for neuroprotection. <i>Bioorganic Chemistry</i> , 2021, 107, 104520.	4.1	11
95	Cynaropicrin Induces Cell Cycle Arrest and Apoptosis by Inhibiting PKM2 to Cause DNA Damage and Mitochondrial Fission in A549 Cells. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 13557-13567.	5.2	11
96	Targeting Thioredoxin Reductase by Ibrutinib Promotes Apoptosis of SMMC-7721 Cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 369, 212-222.	2.5	10
97	Synthesis and biological evaluation of disulfides as anticancer agents with thioredoxin inhibition. <i>Bioorganic Chemistry</i> , 2021, 110, 104814.	4.1	10
98	Activation of Cellular Antioxidant Defense System by Naturally Occurring Dibenzopyrone Derivatives Confers Neuroprotection against Oxidative Insults. <i>ACS Chemical Neuroscience</i> , 2021, 12, 2798-2809.	3.5	10
99	A $\beta$ -allyl carbamate fluorescent probe for vicinal dithiol proteins. <i>Chemical Communications</i> , 2020, 56, 2857-2860.	4.1	10
100	How can we improve the design of small molecules to target thioredoxin reductase for treating cancer?. <i>Expert Opinion on Drug Discovery</i> , 2021, 16, 331-333.	5.0	10
101	Emodin ameliorates antioxidant capacity and exerts neuroprotective effect via PKM2-mediated Nrf2 transactivation. <i>Food and Chemical Toxicology</i> , 2022, 160, 112790.	3.6	10
102	Baylis-Hillman Adducts as a Versatile Module for Constructing Fluorogenic Release System. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 6056-6069.	6.4	10
103	A fluorescent probe for specifically measuring the overall thioredoxin and glutaredoxin reducing activity in bacterial cells. <i>Analyst</i> , 2022, 147, 834-840.	3.5	7
104	Protective Effects of Resveratrol and its Analogues against Free Radical-Induced Oxidative Hemolysis of Red Blood Cells. <i>Chinese Journal of Chemistry</i> , 2002, 20, 1313-1318.	4.9	6
105	Thioredoxin Signaling Pathways in Cancer. <i>Antioxidants and Redox Signaling</i> , 0, , .	5.4	6
106	Fluorescent Probes for Imaging Protein Disulfides in Live Organisms. <i>ACS Sensors</i> , 2021, 6, 1384-1391.	7.8	5
107	Isolation, identification, and activity evaluation of diterpenoid alkaloids from <i>Aconitum sinomontanum</i> . <i>Phytochemistry</i> , 2021, 190, 112880.	2.9	4
108	An Azo Coupling Strategy for Protein 3-Nitrotyrosine Derivatization. <i>Chemistry - A European Journal</i> , 2019, 25, 11228-11232.	3.3	3

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109	Revealing PACMA 31 as a new chemical type TrxR inhibitor to promote cancer cell apoptosis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2022, 1869, 119323.	4.1	2
110	Fusaricide is a Novel Iron Chelator that Induces Apoptosis through Activating Caspase-3. <i>Journal of Natural Products</i> , 2021, 84, 2094-2103.	3.0	1
111	Assay of selenol species in biological samples by the fluorescent probe Sel-green. <i>Methods in Enzymology</i> , 2022, 662, 259-273.	1.0	0