Douglas R Spitz

List of Publications by Year
in descending order

259 papers	22,121 citations	7551 77 h-index	10708 138 g-index
269 all docs	269 docs citations	269 times ranked	26112 citing authors

#	Article	IF	Citations
1	A Dynamic Pathway for Calcium-Independent Activation of CaMKII by Methionine Oxidation. Cell, 2008, 133, 462-474.	13.5	951
2	Sirt3-Mediated Deacetylation of Evolutionarily Conserved Lysine 122 Regulates MnSOD Activity in Response to Stress. Molecular Cell, 2010, 40, 893-904.	4.5	794
3	SIRT3 Is a Mitochondria-Localized Tumor Suppressor Required for Maintenance of Mitochondrial Integrity and Metabolism during Stress. Cancer Cell, 2010, 17, 41-52.	7.7	705
4	An assay for superoxide dismutase activity in mammalian tissue homogenates. Analytical Biochemistry, 1989, 179, 8-18.	1.1	630
5	Metabolic oxidation/reduction reactions and cellular responses to ionizing radiation: A unifying concept in stress response biology. Cancer and Metastasis Reviews, 2004, 23, 311-322.	2.7	584
6	Lymph protects metastasizing melanoma cells from ferroptosis. Nature, 2020, 585, 113-118.	13.7	484
7	Increased levels of superoxide and H2O2 mediate the differential susceptibility of cancer cells versus normal cells to glucose deprivation. Biochemical Journal, 2009, 418, 29-37.	1.7	378
8	Superoxide Mediates the Actions of Angiotensin II in the Central Nervous System. Circulation Research, 2002, 91, 1038-1045.	2.0	362
9	[61] Assay of superoxide dismutase activity in tumor tissue. Methods in Enzymology, 1984, 105, 457-464.	0.4	355
10	O 2 â‹…â^' and H 2 O 2 -Mediated Disruption of Fe Metabolism Causes the Differential Susceptibility of NSCLC and GBM Cancer Cells to Pharmacological Ascorbate. Cancer Cell, 2017, 31, 487-500.e8.	7.7	316
11	Reactive Oxygen Species in Normal and Tumor Stem Cells. Advances in Cancer Research, 2014, 122, 1-67.	1.9	291
12	Glucose Deprivationâ€Induced Oxidative Stress in Human Tumor Cells: A Fundamental Defect in Metabolism?. Annals of the New York Academy of Sciences, 2000, 899, 349-362.	1.8	288
13	Targeting Breast Cancer Stem Cell State Equilibrium through Modulation of Redox Signaling. Cell Metabolism, 2018, 28, 69-86.e6.	7.2	284
14	Increased lipid peroxidation and impaired antioxidant enzyme function is associated with pathological liver injury in experimental alcoholic liver disease in rats fed diets high in corn oil and fish oil. Hepatology, 1998, 27, 1317-1323.	3.6	276
15	Î±-Tocopheryl succinate induces apoptosis by targeting ubiquinone-binding sites in mitochondrial respiratory complex II. Oncogene, 2008, 27, 4324-4335.	2.6	266
16	Manganese Superoxide Dismutase-Mediated Gene Expression in Radiation-Induced Adaptive Responses. Molecular and Cellular Biology, 2003, 23, 2362-2378.	1.1	263
17	Oxidative metabolism modulates signal transduction and micronucleus formation in bystander cells from alpha-particle-irradiated normal human fibroblast cultures. Cancer Research, 2002, 62, 5436-42.	0.4	262
18	SIRT3 interacts with the daf-16 homolog FOXO3a in the Mitochondria, as well as increases FOXO3a Dependent Gene expression. International Journal of Biological Sciences, 2008, 4, 291-299.	2.6	250

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19	Role of Glutaredoxin in Metabolic Oxidative Stress. Journal of Biological Chemistry, 2002, 277, 46566-46575.	1.6	240
20	H2O2-induced Oâ¨ª2Production by a Non-phagocytic NAD(P)H Oxidase Causes Oxidant Injury. Journal of Biological Chemistry, 2001, 276, 29251-29256.	1.6	236
21	DNA damage induces reactive oxygen species generation through the H2AX-Nox1/Rac1 pathway. Cell Death and Disease, 2012, 3, e249-e249.	2.7	235
22	Mitochondrial O2â‹…Â¯ and H2O2 Mediate Glucose Deprivation-induced Stress in Human Cancer Cells. Journal of Biological Chemistry, 2005, 280, 4254-4263.	1.6	225
23	Oxidation of CaMKII determines the cardiotoxic effects of aldosterone. Nature Medicine, 2011, 17, 1610-1618.	15.2	220
24	Hydrogen peroxide or heat shock induces resistance to hydrogen peroxide in Chinese hamster fibroblasts. Journal of Cellular Physiology, 1987, 131, 364-373.	2.0	217
25	2-Deoxy-d-Glucose Combined with Cisplatin Enhances Cytotoxicity via Metabolic Oxidative Stress in Human Head and Neck Cancer Cells. Cancer Research, 2007, 67, 3364-3370.	0.4	215
26	Ketogenic diets as an adjuvant cancer therapy: History and potential mechanism. Redox Biology, 2014, 2, 963-970.	3.9	206
27	Analysis of Glutathione, Glutathione Disulfide, Cysteine, Homocysteine, and Other Biological Thiols by High-Performance Liquid Chromatography Following Derivatization by N-(1-Pyrenyl)maleimide. Analytical Biochemistry, 1995, 227, 14-21.	1.1	203
28	Oxygen toxicity and iron accumulation in the lungs of mice lacking heme oxygenase-2.. Journal of Clinical Investigation, 1998, 101, 1001-1011.	3.9	201
29	Glucose Deprivation-induced Cytotoxicity and Alterations in Mitogen-activated Protein Kinase Activation Are Mediated by Oxidative Stress in Multidrug-resistant Human Breast Carcinoma Cells. Journal of Biological Chemistry, 1998, 273, 5294-5299.	1.6	195
30	An integrated physico-chemical approach for explaining the differential impact of FLASH versus conventional dose rate irradiation on cancer and normal tissue responses. Radiotherapy and Oncology, 2019, 139, 23-27.	0.3	189
31	Antioxidant effects of N-acetylcysteine and succimer in red blood cells from lead-exposed rats. Toxicology, 1998, 128, 181-189.	2.0	188
32	HER2-Associated Radioresistance of Breast Cancer Stem Cells Isolated from HER2-Negative Breast Cancer Cells. Clinical Cancer Research, 2012, 18, 6634-6647.	3.2	183
33	Redox Signaling in Cancer Biology. Antioxidants and Redox Signaling, 2006, 8, 1249-1252.	2.5	182
34	Ketogenic Diets Enhance Oxidative Stress and Radio-Chemo-Therapy Responses in Lung Cancer Xenografts. Clinical Cancer Research, 2013, 19, 3905-3913.	3.2	180
35	Redox regulation of the G1 to S phase transition in the mouse embryo fibroblast cell cycle. Cancer Research, 2003, 63, 2109-17.	0.4	180
36	Mutation of Succinate Dehydrogenase Subunit C Results in Increased O2Â·â¯, Oxidative Stress, and Genomic Instability. Cancer Research, 2006, 66, 7615-7620.	0.4	178

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37	Hyperbilirubinemia results in reduced oxidative injury in neonatal gunn rats exposed to hyperoxia. Free Radical Biology and Medicine, 1995, 19, 395-404.	1.3	175
38	Glial cell type-specific responses to menadione-induced oxidative stress. Free Radical Biology and Medicine, 2000, 28, 1161-1174.	1.3	171
39	A Spectrophotometric Method for the Direct Detection and Quantitation of Nitric Oxide, Nitrite, and Nitrate in Cell Culture Media. Analytical Biochemistry, 2000, 281, 223-229.	1.1	170
40	Overexpression of manganese or copperâ€“zinc superoxide dismutase inhibits breast cancer growth. Free Radical Biology and Medicine, 2006, 41, 226-237.	1.3	169
41	Myeloperoxidase-Generated Oxidants Modulate Left Ventricular Remodeling but Not Infarct Size After Myocardial Infarction. Circulation, 2005, 112, 2812-2820.	1.6	163
42	The role of manganese superoxide dismutase in the growth of pancreatic adenocarcinoma. Cancer Research, 2003, 63, 1297-303.	0.4	155
43	Thioredoxin reductase as a novel molecular target for cancer therapy. Cancer Letters, 2006, 236, 164-174.	3.2	148
44	In vivo indices of oxidative stress in lead-exposed C57BL/6 mice are reduced by treatment with meso-2,3-Dimercaptosuccinic Acid or N-acetylcysteine. Free Radical Biology and Medicine, 1996, 21, 157-161.	1.3	145
45	Metabolic oxidative stress activates signal transduction and gene expression during glucose deprivation in human tumor cells. Free Radical Biology and Medicine, 1999, 26, 419-430.	1.3	143
46	Pseudomonas aeruginosapyocyanin directly oxidizes glutathione and decreases its levels in airway epithelial cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2004, 287, L94-L103.	1.3	141
47	Inhibition of MCU forces extramitochondrial adaptations governing physiological and pathological stress responses in heart. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9129-9134.	3.3	140
48	2-Deoxy-d-glucose causes cytotoxicity, oxidative stress, and radiosensitization in pancreatic cancer. Free Radical Biology and Medicine, 2008, 44, 322-331.	1.3	134
49	Acetylation of MnSOD directs enzymatic activity responding to cellular nutrient status or oxidative stress. Aging, 2011, 3, 102-107.	1.4	132
50	Heme Oxygenase-mediated Resistance to Oxygen Toxicity in Hamster Fibroblasts. Journal of Biological Chemistry, 1997, 272, 14937-14942.	1.6	130
51	Manganese superoxide dismutase suppresses hypoxic induction of hypoxia-inducible factor-1Î± and vascular endothelial growth factor. Oncogene, 2005, 24, 8154-8166.	2.6	130
52	Mechanisms of H2O2-induced oxidative stress in endothelial cells. Free Radical Biology and Medicine, 2006, 40, 2206-2213.	1.3	123
53	Calcium-dependent Modulation of Poly(ADP-ribose) Polymerase-1 Alters Cellular Metabolism and DNA Repair. Journal of Biological Chemistry, 2006, 281, 33684-33696.	1.6	113
54	Nitric Oxide-Induced Cytotoxicity: Involvement of Cellular Resistance to Oxidative Stress and the Role of Glutathione in Protection. Pediatric Research, 1995, 37, 41-49.	1.1	112

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55	Hepatitis C virus-core and non structural proteins lead to different effects on cellular antioxidant defenses. Journal of Medical Virology, 2005, 76, 489-497.	2.5	109
56	Thioredoxin reductase regulates AP-1 activity as well as thioredoxin nuclear localization via active cysteines in response to ionizing radiation. Oncogene, 2002, 21, 6317-6327.	2.6	106
57	Adaptive Responses to Low-Dose/Low-Dose-Rate Î³ Rays in Normal Human Fibroblasts: The Role of Growth Architecture and Oxidative Metabolism. Radiation Research, 2006, 166, 849-857.	0.7	106
58	2-Deoxy-D-glucose-induced cytotoxicity and radiosensitization in tumor cells is mediated via disruptions in thiol metabolism. Cancer Research, 2003, 63, 3413-7.	0.4	106
59	Oxygen toxicity in control and H2O2-resistant Chinese hamster fibroblast cell lines. Archives of Biochemistry and Biophysics, 1990, 279, 249-260.	1.4	103
60	Consuming a Ketogenic Diet while Receiving Radiation and Chemotherapy for Locally Advanced Lung Cancer and Pancreatic Cancer: The University of Iowa Experience of Two Phase 1 Clinical Trials. Radiation Research, 2017, 187, 743-754.	0.7	100
61	Oxidative stress-induced apoptosis in neurons correlates with mitochondrial DNA base excision repair pathway imbalance. Nucleic Acids Research, 2005, 33, 4660-4671.	6.5	98
62	Constitutive ERK MAPK Activity Regulates Macrophage ATP Production and Mitochondrial Integrity. Journal of Immunology, 2008, 180, 7485-7496.	0.4	95
63	Enhancement of Carboplatin-Mediated Lung Cancer Cell Killing by Simultaneous Disruption of Glutathione and Thioredoxin Metabolism. Clinical Cancer Research, 2011, 17, 6206-6217.	3.2	95
64	Nuclear Factor-ÎºB and Manganese Superoxide Dismutase Mediate Adaptive Radioresistance in Low-Dose Irradiated Mouse Skin Epithelial Cells. Cancer Research, 2007, 67, 3220-3228.	0.4	93
65	Radiation Response in Two HPV-Infected Head-and-Neck Cancer Cell Lines in Comparison to a Nonâ€“HPV-Infected Cell Line and Relationship to Signaling Through AKT. International Journal of Radiation Oncology Biology Physics, 2009, 74, 928-933.	0.4	93
66	Expression of Glutathione and Î³-Glutamylcysteine Synthetase mRNA Is Jun Dependent. Biochemical and Biophysical Research Communications, 1997, 234, 588-593.	1.0	92
67	Sirt3, Mitochondrial ROS, Ageing, and Carcinogenesis. International Journal of Molecular Sciences, 2011, 12, 6226-6239.	1.8	92
68	Elevated mitochondrial superoxide disrupts normal T cell development, impairing adaptive immune responses to an influenza challenge. Free Radical Biology and Medicine, 2011, 50, 448-458.	1.3	92
69	Pharmacological Ascorbate Radiosensitizes Pancreatic Cancer. Cancer Research, 2015, 75, 3314-3326.	0.4	89
70	Glutathione dependent metabolism and detoxification of 4-hydroxy-2-nonenal. Free Radical Biology and Medicine, 1991, 11, 415-423.	1.3	88
71	Mechanisms of cellular resistance to hydrogen peroxide, hyperoxia, and 4-hydroxy-2-nonenal toxicity: The significance of increased catalase activity in H2O2-resistant fibroblasts. Archives of Biochemistry and Biophysics, 1992, 292, 221-227.	1.4	88
72	Enhancement of Radiation Response in Breast Cancer Stem Cells by Inhibition of Thioredoxin- and Glutathione-Dependent Metabolism. Radiation Research, 2016, 186, 385.	0.7	87

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73	A Role for Oxidative Stress in Suppressing Serum Immunoglobulin Levels in Lead-Exposed Fisher 344 Rats. Archives of Environmental Contamination and Toxicology, 2000, 39, 251-256.	2.1	86
74	Catalase Abrogates Î²-Lapachoneâ€“Induced PARP1 Hyperactivationâ€“Directed Programmed Necrosis in NQO1-Positive Breast Cancers. Molecular Cancer Therapeutics, 2013, 12, 2110-2120.	1.9	85
75	Mitochondrial Complex II Dysfunction Can Contribute Significantly to Genomic Instability after Exposure to Ionizing Radiation. Radiation Research, 2009, 172, 737-745.	0.7	83
76	Pharmacologic Ascorbate Reduces Radiation-Induced Normal Tissue Toxicity and Enhances Tumor Radiosensitization in Pancreatic Cancer. Cancer Research, 2018, 78, 6838-6851.	0.4	83
77	Erlotinib-Mediated Inhibition of EGFR Signaling Induces Metabolic Oxidative Stress through NOX4. Cancer Research, 2011, 71, 3932-3940.	0.4	79
78	The Role of Low Molecular Weight Thiols in T Lymphocyte Proliferation and IL-2 Secretion. Journal of Immunology, 2005, 175, 7965-7972.	0.4	78
79	Mitochondrial Rac1 GTPase Import and Electron Transfer from Cytochrome c Are Required for Pulmonary Fibrosis. Journal of Biological Chemistry, 2012, 287, 3301-3312.	1.6	78
80	Size-dependent cytotoxicity of copper oxide nanoparticles in lung epithelial cells. Environmental Science: Nano, 2016, 3, 365-374.	2.2	78
81	Glucose deprivation-induced metabolic oxidative stress and cancer therapy. Journal of Cancer Research and Therapeutics, 2009, 5, 2.	0.3	77
82	Radioresistance in Glioblastoma and the Development of Radiosensitizers. Cancers, 2020, 12, 2511.	1.7	77
83	Persistent increase in mitochondrial superoxide mediates cisplatin-induced chronic kidney disease. Redox Biology, 2019, 20, 98-106.	3.9	76
84	Liposomal Doxorubicin Increases Radiofrequency Ablationâ€“induced Tumor Destruction by Increasing Cellular Oxidative and Nitrative Stress and Accelerating Apoptotic Pathways. Radiology, 2010, 255, 62-74.	3.6	75
85	Simultaneous inhibition of glutathione- and thioredoxin-dependent metabolism is necessary to potentiate 17AAG-induced cancer cell killing via oxidative stress. Free Radical Biology and Medicine, 2012, 52, 436-443.	1.3	73
86	Chitosan coating of copper nanoparticles reducesin vitrotoxicity and increases inflammation in the lung. Nanotechnology, 2013, 24, 395101.	1.3	73
87	Redox-sensitive interaction between KIAA0132 and Nrf2 mediates indomethacin-induced expression of Î³-glutamylcysteine synthetase. Free Radical Biology and Medicine, 2002, 32, 650-662.	1.3	72
88	Paclitaxel combined with inhibitors of glucose and hydroperoxide metabolism enhances breast cancer cell killing via H2O2-mediated oxidative stress. Free Radical Biology and Medicine, 2010, 48, 1024-1033.	1.3	71
89	Combined inhibition of glycolysis, the pentose cycle, and thioredoxin metabolism selectively increases cytotoxicity and oxidative stress in human breast and prostate cancer. Redox Biology, 2015, 4, 127-135.	3.9	71
90	Cigarette Smoke Induces Cellular Senescence via Werner's Syndrome Protein Down-regulation. American Journal of Respiratory and Critical Care Medicine, 2009, 179, 279-287.	2.5	70

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91	Understanding High-Dose, Ultra-High Dose Rate, and Spatially Fractionated Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2020, 107, 766-778.	0.4	70
92	Mitochondrial Calcium Uniporter Activity Is Dispensable for MDA-MB-231 Breast Carcinoma Cell Survival. PLoS ONE, 2014, 9, e96866.	1.1	70
93	Polychlorinated-biphenyl-induced oxidative stress and cytotoxicity can be mitigated by antioxidants after exposure. Free Radical Biology and Medicine, 2009, 47, 1762-1771.	1.3	69
94	Radioresistant Cervical Cancers Are Sensitive to Inhibition of Glycolysis and Redox Metabolism. Cancer Research, 2018, 78, 1392-1403.	0.4	69
95	Stable H 2 O 2 -Resistant Variants of Chinese Hamster Fibroblasts Demonstrate Increases in Catalase Activity. Radiation Research, 1988, 114, 114.	0.7	67
96	Acute toxicity of 3,3â€²,4,4â€²,5-pentachlorobiphenyl (PCB 126) in male Sprague–Dawley rats: Effects on hepatic oxidative stress, glutathione and metals status. Environment International, 2010, 36, 918-923.	4.8	66
97	Cellular resistance to oxidative stress is accompanied by resistance to cisplatin: The significance of increased catalase activity and total glutathione in hydrogen peroxide-resistant fibroblasts. Journal of Cellular Physiology, 1993, 156, 72-79.	2.0	65
98	Cell Cycle-coupled Variation in Topoisomerase IIÎ± mRNA Is Regulated by the 3â€²-Untranslated Region. Journal of Biological Chemistry, 2000, 275, 38384-38392.	1.6	65
99	Mitochondrial electron transport chain blockers enhance 2-deoxy-D-glucose induced oxidative stress and cell killing in human colon carcinoma cells. Cancer Biology and Therapy, 2009, 8, 1228-1236.	1.5	65
100	Mitochondrial Cu,Zn-Superoxide Dismutase Mediates Pulmonary Fibrosis by Augmenting H2O2 Generation. Journal of Biological Chemistry, 2011, 286, 15597-15607.	1.6	65
101	Susceptibility of Human Head and Neck Cancer Cells to Combined Inhibition of Glutathione and Thioredoxin Metabolism. PLoS ONE, 2012, 7, e48175.	1.1	65
102	Treatment of Pancreatic Cancer Cells with Dicumarol Induces Cytotoxicity and Oxidative Stress. Clinical Cancer Research, 2004, 10, 4550-4558.	3.2	63
103	Enhanced Response of Human Head and Neck Cancer Xenograft Tumors to Cisplatin Combined With 2-Deoxy-d-Glucose Correlates With Increased 18F-FDG Uptake as Determined by PET Imaging. International Journal of Radiation Oncology Biology Physics, 2007, 69, 1222-1230.	0.4	63
104	Inhibiting catalase activity sensitizes 36B10 rat glioma cells to oxidative stress. Free Radical Biology and Medicine, 2007, 42, 787-797.	1.3	63
105	Hydrogen peroxide mediates the radiation-induced mutator phenotype in mammalian cells. Biochemical Journal, 2008, 413, 185-191.	1.7	62
106	Inhibition of Glutamate Cysteine Ligase Activity Sensitizes Human Breast Cancer Cells to the Toxicity of 2-Deoxy-d-Glucose. Cancer Research, 2006, 66, 1605-1610.	0.4	61
107	Mitochondrial Production of Reactive Oxygen Species Mediate Dicumarol-induced Cytotoxicity in Cancer Cells. Journal of Biological Chemistry, 2006, 281, 37416-37426.	1.6	61
108	Enhanced Î³-Glutamyl Transpeptidase Expression and Selective Loss of CuZn Superoxide Dismutase in Hepatic Iron Overload. Free Radical Biology and Medicine, 1998, 24, 545-555.	1.3	60

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109	High Levels of Catalase and Glutathione Peroxidase Activity Dampen H2O2Signaling in Human Alveolar Macrophages. American Journal of Respiratory Cell and Molecular Biology, 2004, 31, 43-53.	1.4	60
110	SOD1 deficiency: a novel syndrome distinct from amyotrophic lateral sclerosis. Brain, 2019, 142, 2230-2237.	3.7	59
111	Emerging evidence for targeting mitochondrial metabolic dysfunction in cancer therapy. Journal of Clinical Investigation, 2018, 128, 3682-3691.	3.9	59
112	Regulation of normal cell cycle progression by flavin-containing oxidases. Oncogene, 2008, 27, 20-31.	2.6	58
113	Glucose as a prognostic factor in ovarian carcinoma. Cancer, 2009, 115, 1021-1027.	2.0	58
114	Loss of SOD3 (EcSOD) Expression Promotes an Aggressive Phenotype in Human Pancreatic Ductal Adenocarcinoma. Clinical Cancer Research, 2015, 21, 1741-1751.	3.2	58
115	Effect of iron overload and dietary fat on indices of oxidative stress and hepatic fibrogenesis in rats. Liver International, 2003, 23, 232-242.	1.9	56
116	Does Heat Shock Enhance Oxidative Stress? Studies with Ferrous and Ferric Iron. Radiation Research, 1990, 124, 288.	0.7	55
117	Exposure to Static Magnetic and Electric Fields Treats Type 2 Diabetes. Cell Metabolism, 2020, 32, 561-574.e7.	7.2	55
118	2-Deoxyglucose-induced toxicity is regulated by Bcl-2 family members and is enhanced by antagonizing Bcl-2 in lymphoma cell lines. Oncogene, 2012, 31, 2738-2749.	2.6	54
119	Redox Factor-1 (Ref-1) Mediates the Activation of AP-1 in HeLa and NIH 3T3 Cells in Response to Heat Shock. Journal of Biological Chemistry, 1999, 274, 16959-16964.	1.6	52
120	Exploring the electrostatic repulsion model in the role of Sirt3 in directing MnSOD acetylation status and enzymatic activity. Free Radical Biology and Medicine, 2012, 53, 828-833.	1.3	52
121	First-in-Human Phase I Clinical Trial of Pharmacologic Ascorbate Combined with Radiation and Temozolomide for Newly Diagnosed Glioblastoma. Clinical Cancer Research, 2019, 25, 6590-6597.	3.2	52
122	Decreasing peroxiredoxin II expression decreases glutathione, alters cell cycle distribution, and sensitizes glioma cells to ionizing radiation and H2O2. Free Radical Biology and Medicine, 2008, 45, 1178-1189.	1.3	51
123	Ionizing Radiation-Induced Responses: Where Free Radical Chemistry Meets Redox Biology and Medicine. Antioxidants and Redox Signaling, 2014, 20, 1407-1409.	2.5	50
124	Manganese superoxide dismutase gene dosage affects chromosomal instability and tumor onset in a mouse model of T cell lymphoma. Free Radical Biology and Medicine, 2008, 44, 1677-1686.	1.3	49
125	Reconstitution of galectin-3 alters glutathione content and potentiates TRAIL-induced cytotoxicity by dephosphorylation of Akt. Experimental Cell Research, 2003, 288, 21-34.	1.2	48
126	All-trans-retinoic acid induces manganese superoxide dismutase in human neuroblastoma through NF-Î²B. Free Radical Biology and Medicine, 2008, 44, 1610-1616.	1.3	46

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127	Cisplatin combined with zidovudine enhances cytotoxicity and oxidative stress in human head and neck cancer cells via a thiol-dependent mechanism. Free Radical Biology and Medicine, 2009, 46, 232-237.	1.3	46
128	[22] Measurement of glutathione, glutathione disulfide, and other thiols in mammalian cell and tissue homogenates using high-performance liquid chromatography separation of N-(1-pyrenyl)maleimide derivatives. Methods in Enzymology, 1999, 299, 258-267.	0.4	45
129	Evaluation of Parameters of Oxidative Stress afterIn VitroExposure to FMCW- and CDMA-Modulated Radiofrequency Radiation Fields. Radiation Research, 2004, 162, 497-504.	0.7	45
130	A New Player in Environmentally Induced Oxidative Stress: Polychlorinated Biphenyl Congener, 3,3â€²-Dichlorobiphenyl (PCB11). Toxicological Sciences, 2013, 136, 39-50.	1.4	45
131	The mechanism of cell death induced by silver nanoparticles is distinct from silver cations. Particle and Fibre Toxicology, 2021, 18, 37.	2.8	45
132	Metadherin enhances vulnerability of cancer cells to ferroptosis. Cell Death and Disease, 2019, 10, 682.	2.7	44
133	Mitochondrial ROS and radiation induced transformation in mouse embryonic fibroblasts. Cancer Biology and Therapy, 2009, 8, 1962-1971.	1.5	43
134	Genomic instability induced by mutant succinate dehydrogenase subunit D (SDHD) is mediated by O2-â€¢ and H2O2. Free Radical Biology and Medicine, 2012, 52, 160-166.	1.3	43
135	Linking Cancer Metabolic Dysfunction and Genetic Instability through the Lens of Iron Metabolism. Cancers, 2019, 11, 1077.	1.7	43
136	Contribution of increased glutathione content to mechanisms of oxidative stress resistance in hydrogen peroxide resistant hamster fibroblasts. Journal of Cellular Physiology, 1995, 165, 600-609.	2.0	42
137	Redox active metals and H2O2 mediate the increased efficacy of pharmacological ascorbate in combination with gemcitabine or radiation in pre-clinical sarcoma models. Redox Biology, 2018, 14, 417-422.	3.9	42
138	Relationship between changes in ploidy and stable cellular resistance to hydrogen peroxide. Journal of Cellular Physiology, 1989, 139, 592-598.	2.0	41
139	Subacute exposure to N-ethyl perfluorooctanesulfonamidoethanol results in the formation of perfluorooctanesulfonate and alters superoxide dismutase activity in female rats. Archives of Toxicology, 2009, 83, 909-924.	1.9	41
140	Differential Susceptibility of Nonmalignant Human Breast Epithelial Cells and Breast Cancer Cells to Thiol Antioxidant-Induced G1-Delay. Antioxidants and Redox Signaling, 2005, 7, 711-718.	2.5	40
141	Increased prooxidant production and enhanced susceptibility to glutathione depletion in HepG2 cells co-expressing HCV core protein and CYP2E1. Journal of Medical Virology, 2004, 72, 230-240.	2.5	39
142	Amifostine Induces Antioxidant Enzymatic Activities in Normal Tissues and a Transplantable Tumor That Can Affect Radiation Response. International Journal of Radiation Oncology Biology Physics, 2009, 73, 886-896.	0.4	39
143	Dexamethasone-Induced Oxidative Stress Enhances Myeloma Cell Radiosensitization While Sparing Normal Bone Marrow Hematopoiesis. Neoplasia, 2010, 12, 980-992.	2.3	39
144	Pharmacological Ascorbate as a Means of Sensitizing Cancer Cells to Radio-Chemotherapy While Protecting Normal Tissue. Seminars in Radiation Oncology, 2019, 29, 25-32.	1.0	39

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145	Contribution of Mitochondrial DNA Repair to Cell Resistance from Oxidative Stress. Journal of Biological Chemistry, 2005, 280, 8901-8905.	1.6	38
146	WR-1065, the active metabolite of amifostine, mitigates radiation-induced delayed genomic instability. Free Radical Biology and Medicine, 2008, 45, 1674-1681.	1.3	38
147	2-deoxy-D-glucose induces oxidative stress and cell killing in human neuroblastoma cells. Cancer Biology and Therapy, 2010, 9, 853-861.	1.5	38
148	Inhibition of Glutathione and Thioredoxin Metabolism Enhances Sensitivity to Perifosine in Head and Neck Cancer Cells. Journal of Oncology, 2009, 2009, 1-10.	0.6	36
149	The p53/p21^{WAF/CIP} Pathway Mediates Oxidative Stress and Senescence in Dyskeratosis Congenita Cells with Telomerase Insufficiency. Antioxidants and Redox Signaling, 2011, 14, 985-997.	2.5	36
150	High-performance liquid chromatography assay for N-acetylcysteine in biological samples following derivatization with N-(1-pyrenyl)maleimide. Biomedical Applications, 1996, 685, 329-334.	1.7	35
151	Radiofrequency Electromagnetic Fields Have No Effect on the In Vivo Proliferation of the 9L Brain Tumor. Radiation Research, 1999, 152, 665.	0.7	35
152	Evidence for oxidative stress in NSAID-induced colitis in IL10â^'/â^' mice. Free Radical Biology and Medicine, 2003, 34, 1153-1166.	1.3	34
153	Aging augments mitochondrial susceptibility to heat stress. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 296, R812-R820.	0.9	34
154	Inhibition of fatty acid oxidation enhances oxidative protein folding and protects hepatocytes from endoplasmic reticulum stress. Molecular Biology of the Cell, 2012, 23, 811-819.	0.9	34
155	A common variant alters SCN5Aâ€“miR-24 interaction and associates with heart failure mortality. Journal of Clinical Investigation, 2018, 128, 1154-1163.	3.9	34
156	Disruption of Sag/Rbx2/Roc2 induces radiosensitization by increasing ROS levels and blocking NF-ÎºB activation in mouse embryonic stem cells. Free Radical Biology and Medicine, 2010, 49, 976-983.	1.3	33
157	Heat-induced cytotoxicity in H2O2-resistant Chinese hamster fibroblasts. Journal of Cellular Physiology, 1990, 142, 255-260.	2.0	32
158	Increased oxidative stress created by adenoviral MnSOD or CuZnSOD plus BCNU (1,3-bis(2-chloroethyl)-1-nitrosourea) inhibits breast cancer cell growth. Free Radical Biology and Medicine, 2008, 44, 856-867.	1.3	32
159	Manipulation of cellular redox parameters for improving therapeutic responses in Bâ€cell lymphoma and multiple myeloma. Journal of Cellular Biochemistry, 2012, 113, 419-425.	1.2	32
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