

Dean P Jones

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

447 papers	34,865 citations	87 h-index	175 g-index
482 ext. papers	40,163 ext. citations	6.2 avg, IF	7.93 L-index

#	Paper	IF	Citations
447	Prevention of apoptosis by Bcl-2: release of cytochrome c from mitochondria blocked. <i>Science</i> , 1997 , 275, 1129-32	33.3	4330
446	Oxidative Stress. <i>Annual Review of Biochemistry</i> , 2017 , 86, 715-748	29.1	1332
445	Redefining oxidative stress. <i>Antioxidants and Redox Signaling</i> , 2006 , 8, 1865-79	8.4	1143
444	Reactive oxygen species (ROS) as pleiotropic physiological signalling agents. <i>Nature Reviews Molecular Cell Biology</i> , 2020 , 21, 363-383	48.7	905
443	The ADP/ATP translocator is not essential for the mitochondrial permeability transition pore. <i>Nature</i> , 2004 , 427, 461-5	50.4	883
442	Radical-free biology of oxidative stress. <i>American Journal of Physiology - Cell Physiology</i> , 2008 , 295, C849-58	5.4	778
441	Superoxide in apoptosis. Mitochondrial generation triggered by cytochrome c loss. <i>Journal of Biological Chemistry</i> , 1998 , 273, 11401-4	5.4	606
440	Redox potential of GSH/GSSG couple: assay and biological significance. <i>Methods in Enzymology</i> , 2002 , 348, 93-112	1.7	567
439	Oxidative damage and protection of the RPE. <i>Progress in Retinal and Eye Research</i> , 2000 , 19, 205-21	20.5	487
438	Redox compartmentalization in eukaryotic cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008 , 1780, 1273-90	4	456
437	Redox state of glutathione in human plasma. <i>Free Radical Biology and Medicine</i> , 2000 , 28, 625-35	7.8	447
436	Nonequilibrium thermodynamics of thiol/disulfide redox systems: a perspective on redox systems biology. <i>Free Radical Biology and Medicine</i> , 2008 , 44, 921-37	7.8	443
435	Predicting network activity from high throughput metabolomics. <i>PLoS Computational Biology</i> , 2013 , 9, e1003123	5	431
434	Glutathione measurement in human plasma. Evaluation of sample collection, storage and derivatization conditions for analysis of dansyl derivatives by HPLC. <i>Clinica Chimica Acta</i> , 1998 , 275, 175-84	6.2	425
433	Glutathione in human plasma: decline in association with aging, age-related macular degeneration, and diabetes. <i>Free Radical Biology and Medicine</i> , 1998 , 24, 699-704	7.8	374
432	The Redox Code. <i>Antioxidants and Redox Signaling</i> , 2015 , 23, 734-46	8.4	354
431	Nuclear and mitochondrial compartmentation of oxidative stress and redox signaling. <i>Annual Review of Pharmacology and Toxicology</i> , 2006 , 46, 215-34	17.9	330

430	Extracellular thiols and thiol/disulfide redox in metabolism. <i>Annual Review of Nutrition</i> , 2004 , 24, 481-509.	9.9	321
429	Redox analysis of human plasma allows separation of pro-oxidant events of aging from decline in antioxidant defenses. <i>Free Radical Biology and Medicine</i> , 2002 , 33, 1290-300	7.8	303
428	Metabolism of hydrogen peroxide in isolated hepatocytes: relative contributions of catalase and glutathione peroxidase in decomposition of endogenously generated H ₂ O ₂ . <i>Archives of Biochemistry and Biophysics</i> , 1981 , 210, 505-16	4.1	287
427	Compartmentation of glutathione: implications for the study of toxicity and disease. <i>Toxicology and Applied Pharmacology</i> , 1996 , 140, 1-12	4.6	284
426	Glutathione redox potential in response to differentiation and enzyme inducers. <i>Free Radical Biology and Medicine</i> , 1999 , 27, 1208-18	7.8	279
425	Cysteine/cystine redox signaling in cardiovascular disease. <i>Free Radical Biology and Medicine</i> , 2011 , 50, 495-509	7.8	272
424	Autophagy is essential for effector CD8(+) T cell survival and memory formation. <i>Nature Immunology</i> , 2014 , 15, 1152-61	19.1	271
423	The nature of nurture: refining the definition of the exposome. <i>Toxicological Sciences</i> , 2014 , 137, 1-2	4.4	248
422	Cysteine/cystine couple is a newly recognized node in the circuitry for biologic redox signaling and control. <i>FASEB Journal</i> , 2004 , 18, 1246-8	0.9	248
421	Honokiol blocks and reverses cardiac hypertrophy in mice by activating mitochondrial Sirt3. <i>Nature Communications</i> , 2015 , 6, 6656	17.4	241
420	The pathophysiological significance of lipid peroxidation in oxidative cell injury. <i>Hepatology</i> , 1987 , 7, 377-86	11.2	238
419	Redox potential of human thioredoxin 1 and identification of a second dithiol/disulfide motif. <i>Journal of Biological Chemistry</i> , 2003 , 278, 33408-15	5.4	231
418	Measuring the poise of thiol/disulfide couples in vivo. <i>Free Radical Biology and Medicine</i> , 2009 , 47, 1329-38	3.8	222
417	apLCMS--adaptive processing of high-resolution LC/MS data. <i>Bioinformatics</i> , 2009 , 25, 1930-6	7.2	219
416	The cysteine proteome. <i>Free Radical Biology and Medicine</i> , 2015 , 84, 227-245	7.8	217
415	Commensal bacteria modulate cullin-dependent signaling via generation of reactive oxygen species. <i>EMBO Journal</i> , 2007 , 26, 4457-66	13	207
414	Differential oxidation of thioredoxin-1, thioredoxin-2, and glutathione by metal ions. <i>Free Radical Biology and Medicine</i> , 2006 , 40, 138-45	7.8	205
413	xMSanalyzer: automated pipeline for improved feature detection and downstream analysis of large-scale, non-targeted metabolomics data. <i>BMC Bioinformatics</i> , 2013 , 14, 15	3.6	201

4 ¹²	Glutathione depletion enforces the mitochondrial permeability transition and causes cell death in Bcl-2 overexpressing HL60 cells. <i>FASEB Journal</i> , 2002 , 16, 1263-5	0.9	194
4 ¹¹	Nutritional metabolomics: progress in addressing complexity in diet and health. <i>Annual Review of Nutrition</i> , 2012 , 32, 183-202	9.9	188
4 ¹⁰	Extracellular redox state: refining the definition of oxidative stress in aging. <i>Rejuvenation Research</i> , 2006 , 9, 169-81	2.6	183
4 ⁰⁹	The relationship between plasma levels of oxidized and reduced thiols and early atherosclerosis in healthy adults. <i>Journal of the American College of Cardiology</i> , 2006 , 47, 1005-11	15.1	180
4 ⁰⁸	The redox proteome. <i>Journal of Biological Chemistry</i> , 2013 , 288, 26512-20	5.4	174
4 ⁰⁷	Distribution of oxidized and reduced forms of glutathione and cysteine in rat plasma. <i>Archives of Biochemistry and Biophysics</i> , 1985 , 240, 583-92	4.1	172
4 ⁰⁶	Thiol/disulfide redox states in signaling and sensing. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2013 , 48, 173-81	8.7	168
4 ⁰⁵	Glutathione and thioredoxin redox during differentiation in human colon epithelial (Caco-2) cells. <i>American Journal of Physiology - Renal Physiology</i> , 2002 , 283, G1352-9	5.1	168
4 ⁰⁴	Clinical trials of antioxidants as cancer prevention agents: past, present, and future. <i>Free Radical Biology and Medicine</i> , 2011 , 51, 1068-84	7.8	167
4 ⁰³	Oxidative stress markers are associated with persistent atrial fibrillation. <i>Clinical Chemistry</i> , 2007 , 53, 1652-7	5.5	164
4 ⁰²	Metabolic Phenotypes of Response to Vaccination in Humans. <i>Cell</i> , 2017 , 169, 862-877.e17	56.2	157
4 ⁰¹	xMSannotator: An R Package for Network-Based Annotation of High-Resolution Metabolomics Data. <i>Analytical Chemistry</i> , 2017 , 89, 1063-1067	7.8	155
4 ⁰⁰	Vaccine activation of the nutrient sensor GCN2 in dendritic cells enhances antigen presentation. <i>Science</i> , 2014 , 343, 313-317	33.3	154
399	Oxidation of glutathione and cysteine in human plasma associated with smoking. <i>Free Radical Biology and Medicine</i> , 2003 , 35, 1582-8	7.8	154
398	Association between adherence to the Mediterranean diet and oxidative stress. <i>American Journal of Clinical Nutrition</i> , 2008 , 88, 1364-70	7	152
397	Inhibition of influenza infection by glutathione. <i>Free Radical Biology and Medicine</i> , 2003 , 34, 928-36	7.8	150
396	Redox control systems in the nucleus: mechanisms and functions. <i>Antioxidants and Redox Signaling</i> , 2010 , 13, 489-509	8.4	149
395	Diurnal variation in glutathione and cysteine redox states in human plasma. <i>American Journal of Clinical Nutrition</i> , 2007 , 86, 1016-23	7	145

394	Compartmental oxidation of thiol-disulphide redox couples during epidermal growth factor signalling. <i>Biochemical Journal</i> , 2005 , 386, 215-9	3.8	141
393	A model of redox kinetics implicates the thiol proteome in cellular hydrogen peroxide responses. <i>Antioxidants and Redox Signaling</i> , 2010 , 13, 731-43	8.4	136
392	Disruption of mitochondrial redox circuitry in oxidative stress. <i>Chemico-Biological Interactions</i> , 2006 , 163, 38-53	5	134
391	Glutathione in foods listed in the National Cancer Institute® Health Habits and History Food Frequency Questionnaire. <i>Nutrition and Cancer</i> , 1992 , 17, 57-75	2.8	134
390	Intracellular proatherogenic events and cell adhesion modulated by extracellular thiol/disulfide redox state. <i>Circulation</i> , 2005 , 111, 2973-80	16.7	131
389	Plasma antioxidant status after high-dose chemotherapy: a randomized trial of parenteral nutrition in bone marrow transplantation patients. <i>American Journal of Clinical Nutrition</i> , 2000 , 72, 181-9	7	131
388	Computational Metabolomics: A Framework for the Million Metabolome. <i>Chemical Research in Toxicology</i> , 2016 , 29, 1956-1975	4	130
387	Compartmentation of Nrf-2 redox control: regulation of cytoplasmic activation by glutathione and DNA binding by thioredoxin-1. <i>Toxicological Sciences</i> , 2004 , 82, 308-17	4.4	130
386	Redox sensing: orthogonal control in cell cycle and apoptosis signalling. <i>Journal of Internal Medicine</i> , 2010 , 268, 432-48	10.8	128
385	High-performance metabolic profiling with dual chromatography-Fourier-transform mass spectrometry (DC-FTMS) for study of the exposome. <i>Metabolomics</i> , 2013 , 9, S132-S143	4.7	127
384	Overexpressed human mitochondrial thioredoxin confers resistance to oxidant-induced apoptosis in human osteosarcoma cells. <i>Journal of Biological Chemistry</i> , 2002 , 277, 33242-8	5.4	126
383	Reference Standardization for Mass Spectrometry and High-resolution Metabolomics Applications to Exposome Research. <i>Toxicological Sciences</i> , 2015 , 148, 531-43	4.4	123
382	Biomarkers of oxidative stress study: are plasma antioxidants markers of CCl(4) poisoning?. <i>Free Radical Biology and Medicine</i> , 2000 , 28, 838-45	7.8	123
381	Redox theory of aging. <i>Redox Biology</i> , 2015 , 5, 71-79	11.3	121
380	Extracellular thiol/disulfide redox state affects proliferation rate in a human colon carcinoma (Caco2) cell line. <i>Free Radical Biology and Medicine</i> , 2002 , 33, 1499-506	7.8	119
379	Attenuation of angiotensin II-induced vascular dysfunction and hypertension by overexpression of Thioredoxin 2. <i>Hypertension</i> , 2009 , 54, 338-44	8.5	117
378	Mitochondrial thioredoxin-2 has a key role in determining tumor necrosis factor-alpha-induced reactive oxygen species generation, NF-kappaB activation, and apoptosis. <i>Toxicological Sciences</i> , 2006 , 91, 643-50	4.4	116
377	Mitochondrial thioredoxin-2/peroxiredoxin-3 system functions in parallel with mitochondrial GSH system in protection against oxidative stress. <i>Archives of Biochemistry and Biophysics</i> , 2007 , 465, 119-26	4.1	113

376	Inhibition of ileal bile acid uptake protects against nonalcoholic fatty liver disease in high-fat diet-fed mice. <i>Science Translational Medicine</i> , 2016 , 8, 357ra122	17.5	106
375	Association between novel oxidative stress markers and C-reactive protein among adults without clinical coronary heart disease. <i>Atherosclerosis</i> , 2005 , 178, 115-21	3.1	106
374	Divergent mechanisms of paraquat, MPP+, and rotenone toxicity: oxidation of thioredoxin and caspase-3 activation. <i>Toxicological Sciences</i> , 2007 , 95, 163-71	4.4	104
373	The role of the multidrug resistance protein-1 in modulation of endothelial cell oxidative stress. <i>Circulation Research</i> , 2005 , 97, 637-44	15.7	104
372	Glutathione oxidation is associated with altered microtubule function and disrupted fertilization in mature hamster oocytes. <i>Biology of Reproduction</i> , 1997 , 57, 1413-9	3.9	101
371	Oxidant-induced apoptosis in human retinal pigment epithelial cells: dependence on extracellular redox state. <i>Investigative Ophthalmology and Visual Science</i> , 2005 , 46, 1054-61		99
370	Plasma metabolomics in human pulmonary tuberculosis disease: a pilot study. <i>PLoS ONE</i> , 2014 , 9, e108854	3.7	98
369	Novel Biomarker of Oxidative Stress Is Associated With Risk of Death in Patients With Coronary Artery Disease. <i>Circulation</i> , 2016 , 133, 361-9	16.7	95
368	Oxidative stress is associated with impaired arterial elasticity. <i>Atherosclerosis</i> , 2011 , 218, 90-5	3.1	93
367	The Exposome: Molecules to Populations. <i>Annual Review of Pharmacology and Toxicology</i> , 2019 , 59, 107-127	12.7	92
366	Redox theory of aging: implications for health and disease. <i>Clinical Science</i> , 2017 , 131, 1669-1688	6.5	92
365	Dieldrin exposure induces oxidative damage in the mouse nigrostriatal dopamine system. <i>Experimental Neurology</i> , 2007 , 204, 619-30	5.7	92
364	Effects of N-acetyl-L-cysteine on T-cell apoptosis are not mediated by increased cellular glutathione. <i>Immunology Letters</i> , 1995 , 45, 205-9	4.1	90
363	A key role for mitochondria in endothelial signaling by plasma cysteine/cystine redox potential. <i>Free Radical Biology and Medicine</i> , 2010 , 48, 275-83	7.8	88
362	Oxidation of nuclear thioredoxin during oxidative stress. <i>FEBS Letters</i> , 2003 , 543, 144-7	3.8	88
361	Mitochondrial redox signaling during apoptosis. <i>Journal of Bioenergetics and Biomembranes</i> , 1999 , 31, 327-34	3.7	88
360	Lipocalin 2 deficiency dysregulates iron homeostasis and exacerbates endotoxin-induced sepsis. <i>Journal of Immunology</i> , 2012 , 189, 1911-9	5.3	87
359	Serum metabolomics of slow vs. rapid motor progression Parkinson's disease: a pilot study. <i>PLoS ONE</i> , 2013 , 8, e77629	3.7	87

358	Effects of age, sex, and genotype on high-sensitivity metabolomic profiles in the fruit fly, <i>Drosophila melanogaster</i> . <i>Aging Cell</i> , 2014 , 13, 596-604	9.9	86
357	Oxygen dependence of oxidative stress. Rate of NADPH supply for maintaining the GSH pool during hypoxia. <i>Biochemical Pharmacology</i> , 1990 , 39, 729-36	6	86
356	A network perspective on metabolism and aging. <i>Integrative and Comparative Biology</i> , 2010 , 50, 844-54	2.8	83
355	Mitochondrial thioredoxin in regulation of oxidant-induced cell death. <i>FEBS Letters</i> , 2006 , 580, 6596-602	3.8	82
354	Prohibitin is a novel regulator of antioxidant response that attenuates colonic inflammation in mice. <i>Gastroenterology</i> , 2009 , 137, 199-208, 208.e1-6	13.3	81
353	Reactive aldehyde modification of thioredoxin-1 activates early steps of inflammation and cell adhesion. <i>American Journal of Pathology</i> , 2007 , 171, 1670-81	5.8	81
352	H ₂ O ₂ -dependent activation of GCLC-ARE4 reporter occurs by mitogen-activated protein kinase pathways without oxidation of cellular glutathione or thioredoxin-1. <i>Journal of Biological Chemistry</i> , 2004 , 279, 5837-45	5.4	80
351	Diet and apoptosis. <i>Annual Review of Nutrition</i> , 2000 , 20, 485-505	9.9	80
350	Sequencing the exposome: A call to action. <i>Toxicology Reports</i> , 2016 , 3, 29-45	4.8	78
349	Selective depletion of mitochondrial glutathione concentrations by (R,S)-3-hydroxy-4-pentenoate potentiates oxidative cell death. <i>Chemical Research in Toxicology</i> , 1993 , 6, 75-81	4	78
348	Metabolome-wide association study of neovascular age-related macular degeneration. <i>PLoS ONE</i> , 2013 , 8, e72737	3.7	78
347	xMWAS: a data-driven integration and differential network analysis tool. <i>Bioinformatics</i> , 2018 , 34, 701-702	7.2	77
346	Integrated redox proteomics and metabolomics of mitochondria to identify mechanisms of Cd toxicity. <i>Toxicological Sciences</i> , 2014 , 139, 59-73	4.4	76
345	Redox dynamics of manganese as a mitochondrial life-death switch. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 482, 388-398	3.4	75
344	Low-Dose Cadmium Causes Metabolic and Genetic Dysregulation Associated With Fatty Liver Disease in Mice. <i>Toxicological Sciences</i> , 2015 , 147, 524-34	4.4	75
343	Reactive species and mitochondrial dysfunction: mechanistic significance of 4-hydroxynonenal. <i>Environmental and Molecular Mutagenesis</i> , 2010 , 51, 380-90	3.2	74
342	Cysteine redox potential determines pro-inflammatory IL-1 β levels. <i>PLoS ONE</i> , 2009 , 4, e5017	3.7	73
341	High-performance metabolic profiling of plasma from seven mammalian species for simultaneous environmental chemical surveillance and bioeffect monitoring. <i>Toxicology</i> , 2012 , 295, 47-55	4.4	70

340	Mechanisms of pathogenesis in drug hepatotoxicity putting the stress on mitochondria. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2010 , 10, 98-111		70
339	A practical approach to detect unique metabolic patterns for personalized medicine. <i>Analyst, The</i> , 2010 , 135, 2864-70	5	70
338	Detection of pro-caspase-3 in cytosol and mitochondria of various tissues. <i>FEBS Letters</i> , 1998 , 431, 167-93.8		70
337	Glutamine prevents cytokine-induced apoptosis in human colonic epithelial cells. <i>Journal of Nutrition</i> , 2003 , 133, 3065-71	4.1	70
336	Endothelial function and aminothiols biomarkers of oxidative stress in healthy adults. <i>Hypertension</i> , 2008 , 52, 80-5	8.5	69
335	Metabolomics of ADSOL (AS-1) red blood cell storage. <i>Transfusion Medicine Reviews</i> , 2014 , 28, 41-55	7.4	68
334	Extracellular cysteine/cystine redox potential controls lung fibroblast proliferation and matrix expression through upregulation of transforming growth factor-beta. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2007 , 293, L972-81	5.8	68
333	High-resolution metabolomics of occupational exposure to trichloroethylene. <i>International Journal of Epidemiology</i> , 2016 , 45, 1517-1527	7.8	68
332	Use of high-resolution metabolomics for the identification of metabolic signals associated with traffic-related air pollution. <i>Environment International</i> , 2018 , 120, 145-154	12.9	67
331	Children with severe asthma have unique oxidative stress-associated metabolomic profiles. <i>Journal of Allergy and Clinical Immunology</i> , 2014 , 133, 258-61.e1-8	11.5	67
330	A rapid LC-FTMS method for the analysis of cysteine, cystine and cysteine/cystine steady-state redox potential in human plasma. <i>Clinica Chimica Acta</i> , 2008 , 396, 43-8	6.2	65
329	Mapping the cysteine proteome: analysis of redox-sensing thiols. <i>Current Opinion in Chemical Biology</i> , 2011 , 15, 103-12	9.7	64
328	Absence of SOD1 leads to oxidative stress in peripheral nerve and causes a progressive distal motor axonopathy. <i>Experimental Neurology</i> , 2012 , 233, 163-71	5.7	63
327	Oxidation of extracellular cysteine/cystine redox state in bleomycin-induced lung fibrosis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2009 , 296, L37-45	5.8	63
326	Acute hepatic and renal toxicity from low doses of acetaminophen in the absence of alcohol abuse or malnutrition: Evidence for increased susceptibility to drug toxicity due to cardiopulmonary and renal insufficiency. <i>Hepatology</i> , 1994 , 19, 1141-1148	11.2	63
325	Correlation of the lung microbiota with metabolic profiles in bronchoalveolar lavage fluid in HIV infection. <i>Microbiome</i> , 2016 , 4, 3	16.6	62
324	Hybrid feature detection and information accumulation using high-resolution LC-MS metabolomics data. <i>Journal of Proteome Research</i> , 2013 , 12, 1419-27	5.6	62
323	Selective targeting of the cysteine proteome by thioredoxin and glutathione redox systems. <i>Molecular and Cellular Proteomics</i> , 2013 , 12, 3285-96	7.6	62

322	Plasma total glutathione in humans and its association with demographic and health-related factors. <i>British Journal of Nutrition</i> , 1993 , 70, 797-808	3.6	62
321	Oxidative stress predicts cognitive decline with aging in healthy adults: an observational study. <i>Journal of Neuroinflammation</i> , 2018 , 15, 17	10.1	61
320	Oxidative stress modulates PPAR gamma in vascular endothelial cells. <i>Free Radical Biology and Medicine</i> , 2010 , 48, 1618-25	7.8	61
319	Antioxidant supplements prevent oxidation of cysteine/cystine redox in patients with age-related macular degeneration. <i>American Journal of Ophthalmology</i> , 2005 , 140, 1020-6	4.9	61
318	Metabolic pathways of lung inflammation revealed by high-resolution metabolomics (HRM) of H1N1 influenza virus infection in mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016 , 311, R906-R916	3.2	61
317	Glutathione redox control of asthma: from molecular mechanisms to therapeutic opportunities. <i>Antioxidants and Redox Signaling</i> , 2012 , 17, 375-408	8.4	60
316	Nuclear and cytoplasmic peroxiredoxin-1 differentially regulate NF-kappaB activities. <i>Free Radical Biology and Medicine</i> , 2007 , 43, 282-8	7.8	59
315	Selective protection of nuclear thioredoxin-1 and glutathione redox systems against oxidation during glucose and glutamine deficiency in human colonic epithelial cells. <i>Free Radical Biology and Medicine</i> , 2007 , 42, 363-70	7.8	58
314	Dietary glutathione intake in humans and the relationship between intake and plasma total glutathione level. <i>Nutrition and Cancer</i> , 1994 , 21, 33-46	2.8	58
313	Dietary sulfur amino acid effects on fasting plasma cysteine/cystine redox potential in humans. <i>Nutrition</i> , 2011 , 27, 199-205	4.8	57
312	Association between oxidative stress and atrial fibrillation. <i>Heart Rhythm</i> , 2017 , 14, 1849-1855	6.7	56
311	Depletion of plasma antioxidants in surgical intensive care unit patients requiring parenteral feeding: effects of parenteral nutrition with or without alanyl-glutamine dipeptide supplementation. <i>Nutrition</i> , 2008 , 24, 37-44	4.8	56
310	Intracellular O2 gradients in cardiac myocytes. Lack of a role for myoglobin in facilitation of intracellular O2 diffusion. <i>Biochemical and Biophysical Research Communications</i> , 1982 , 105, 419-24	3.4	56
309	HIV-1 transgene expression in rats causes oxidant stress and alveolar epithelial barrier dysfunction. <i>AIDS Research and Therapy</i> , 2009 , 6, 1	3	55
308	Perfluoroalkyl substances, metabolomic profiling, and alterations in glucose homeostasis among overweight and obese Hispanic children: A proof-of-concept analysis. <i>Environment International</i> , 2019 , 126, 445-453	12.9	54
307	Gut-Resident Lactobacilli Activate Hepatic Nrf2 and Protect Against Oxidative Liver Injury. <i>Cell Metabolism</i> , 2020 , 31, 956-968.e5	24.6	54
306	Selective oxidative stress in cell nuclei by nuclear-targeted D-amino acid oxidase. <i>Antioxidants and Redox Signaling</i> , 2007 , 9, 807-16	8.4	54
305	Amino Acid Metabolism is Altered in Adolescents with Nonalcoholic Fatty Liver Disease-An Untargeted, High Resolution Metabolomics Study. <i>Journal of Pediatrics</i> , 2016 , 172, 14-19.e5	3.6	53

304	Chronic psychological stress and high-fat high-fructose diet disrupt metabolic and inflammatory gene networks in the brain, liver, and gut and promote behavioral deficits in mice. <i>Brain, Behavior, and Immunity</i> , 2017 , 59, 158-172	16.6	53
303	Redox state of glutathione and thioredoxin in differentiation and apoptosis. <i>BioFactors</i> , 2003 , 17, 307-146.1	4.1	53
302	Dietary compounds that induce cancer preventive phase 2 enzymes activate apoptosis at comparable doses in HT29 colon carcinoma cells. <i>Journal of Nutrition</i> , 1999 , 129, 1827-35	4.1	53
301	Differences in systemic oxidative stress based on race and the metabolic syndrome: the Morehouse and Emory Team up to Eliminate Health Disparities (META-Health) study. <i>Metabolic Syndrome and Related Disorders</i> , 2012 , 10, 252-9	2.6	51
300	Variability in glutathione-dependent detoxication in vivo and its relevance to detoxication of chemical mixtures. <i>Toxicology</i> , 1995 , 105, 267-74	4.4	51
299	Metabolomics of bronchoalveolar lavage differentiate healthy HIV-1-infected subjects from controls. <i>AIDS Research and Human Retroviruses</i> , 2014 , 30, 579-85	1.6	50
298	The effects of age and dietary restriction on the tissue-specific metabolome of Drosophila. <i>Aging Cell</i> , 2015 , 14, 797-808	9.9	50
297	Vitamin D status is independently associated with plasma glutathione and cysteine thiol/disulphide redox status in adults. <i>Clinical Endocrinology</i> , 2014 , 81, 458-66	3.4	50
296	Thiol redox disturbances in children with severe asthma are associated with posttranslational modification of the transcription factor nuclear factor (erythroid-derived 2)-like 2. <i>Journal of Allergy and Clinical Immunology</i> , 2011 , 127, 1604-11	11.5	49
295	Oxidative stress contributes to outcome severity in a Drosophila melanogaster model of classic galactosemia. <i>DMM Disease Models and Mechanisms</i> , 2013 , 6, 84-94	4.1	49
294	The redox regulation of intermediary metabolism by a superoxide-aconitase rheostat. <i>BioEssays</i> , 2004 , 26, 894-900	4.1	49
293	Extracellular cysteine/cystine redox regulates the p44/p42 MAPK pathway by metalloproteinase-dependent epidermal growth factor receptor signaling. <i>American Journal of Physiology - Renal Physiology</i> , 2005 , 289, G70-8	5.1	49
292	Sampling interstitial fluid from human skin using a microneedle patch. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	49
291	Perturbations of the arginine metabolome following exposures to traffic-related air pollution in a panel of commuters with and without asthma. <i>Environment International</i> , 2019 , 127, 503-513	12.9	48
290	Redox biology: interface of the exposome with the proteome, epigenome and genome. <i>Redox Biology</i> , 2014 , 2, 358-60	11.3	48
289	Anticancer therapeutic potential of Mn porphyrin/ascorbate system. <i>Free Radical Biology and Medicine</i> , 2015 , 89, 1231-47	7.8	48
288	Oxidation of plasma cysteine/cystine redox state in endotoxin-induced lung injury. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2009 , 40, 90-8	5.7	48
287	Perfluoroalkyl substances and severity of nonalcoholic fatty liver in Children: An untargeted metabolomics approach. <i>Environment International</i> , 2020 , 134, 105220	12.9	48

286	Antioxidant micronutrients and biomarkers of oxidative stress and inflammation in colorectal adenoma patients: results from a randomized, controlled clinical trial. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2010 , 19, 850-8	4	47
285	Control of extracellular cysteine/cystine redox state by HT-29 cells is independent of cellular glutathione. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007 , 293, R1069-75	3.2	47
284	Metabolomic assessment of exposure to near-highway ultrafine particles. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2019 , 29, 469-483	6.7	46
283	Cerebrospinal fluid concentrations of N-acetylcysteine after oral administration in Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2015 , 21, 500-3	3.6	45
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