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List of Publications by Year in Descending Order

91 papers	4,949 citations	35 h-index	70 g-index
95 ext. papers	5,688 ext. citations	5.8 avg, IF	6.07 L-index

#	Paper	IF	Citations
91	Microbial metabolite delta-valerobetaine is a diet-dependent obesogen.. *Nature Metabolism*, **2021**, 3, 1694-1705	14.6	7
90	Lung metabolome of 1,3-butadiene exposed Collaborative Cross mice reflects metabolic phenotype of human lung cancer. *Toxicology*, **2021**, 463, 152987	4.4	2
89	Firsthand and Secondhand Exposure Levels of Maltol-Flavored Electronic Nicotine Delivery System Vapors Disrupt Amino Acid Metabolism. *Toxicological Sciences*, **2021**, 182, 70-81	4.4	1
88	Distribution of phytochelatins, metal-binding compounds, in plant foods: A survey of commonly consumed fruits, vegetables, grains and legumes. *Food Chemistry*, **2021**, 339, 128051	8.5	5
87	Metabolome-wide association study of flavorant vanillin exposure in bronchial epithelial cells reveals disease-related perturbations in metabolism. *Environment International*, **2021**, 147, 106323	12.9	5
86	Large scale enzyme based xenobiotic identification for exposomics. *Nature Communications*, **2021**, 12, 5418	17.4	4
85	An atlas of metallome and metabolome interactions and associations with incident diabetes in the Strong Heart Family Study. *Environment International*, **2021**, 157, 106810	12.9	3
84	Omics Integration for Mitochondria Systems Biology. *Antioxidants and Redox Signaling*, **2020**, 32, 853-872	8.4	10
83	Mechanisms integrating lifelong exposure and health **2020**, 405-426		
82	MTOR-initiated metabolic switch and degeneration in the retinal pigment epithelium. *FASEB Journal*, **2020**, 34, 12502-12520	0.9	7
81	A precision medicine approach to defining the impact of doxorubicin on the bioenergetic-metabolite interactome in human platelets. *Redox Biology*, **2020**, 28, 101311	11.3	5
80	Metabolomic Responses to Manganese Dose in SH-SY5Y Human Neuroblastoma Cells. *Toxicological Sciences*, **2019**, 169, 84-94	4.4	7
79	Environmental Cadmium Enhances Lung Injury by Respiratory Syncytial Virus Infection. *American Journal of Pathology*, **2019**, 189, 1513-1525	5.8	12
78	Low-dose cadmium potentiates lung inflammatory response to 2009 pandemic H1N1 influenza virus in mice. *Environment International*, **2019**, 127, 720-729	12.9	13
77	Mitochondria in precision medicine; linking bioenergetics and metabolomics in platelets. *Redox Biology*, **2019**, 22, 101165	11.3	19
76	Redox Systems Biology of Nutrition and Oxidative Stress. *Journal of Nutrition*, **2019**, 149, 553-565	4.1	27
75	Transcriptome Analysis Reveals Distinct Responses to Physiologic Toxic Manganese Exposure in Human Neuroblastoma Cells. *Frontiers in Genetics*, **2019**, 10, 676	4.5	9

74	Phytochelatin database: a resource for phytochelatin complexes of nutritional and environmental metals. *Database: the Journal of Biological Databases and Curation*, **2019**, 2019,	5	10
73	Antiatherogenic Effect of Resveratrol Attributed to Decreased Expression of ICAM-1 (Intercellular Adhesion Molecule-1). *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2019**, 39, 675-684	9.4	25
72	Environmental Chemicals Altered in Association With Deployment for High Risk Areas. *Journal of Occupational and Environmental Medicine*, **2019**, 61 Suppl 12, S15-S24	2	3
71	Metabolome-Wide Association Study of Deployment to Balad, Iraq or Bagram, Afghanistan. *Journal of Occupational and Environmental Medicine*, **2019**, 61 Suppl 12, S25-S34	2	5
70	Associations of Benzo(ghi)perylene and Heptachlorodibenzo-p-dioxin in Serum of Service Personnel Deployed to Balad, Iraq, and Bagram, Afghanistan Correlates With Perturbed Amino Acid Metabolism in Human Lung Fibroblasts. *Journal of Occupational and Environmental Medicine*, **2019**, 61 Suppl 12, S35-S44	2	4
69	Benzo[a]pyrene Perturbs Mitochondrial and Amino Acid Metabolism in Lung Epithelial Cells and Has Similar Correlations With Metabolic Changes in Human Serum. *Journal of Occupational and Environmental Medicine*, **2019**, 61 Suppl 12, S73-S81	2	7
68	Proteomic analysis of microbial induced redox-dependent intestinal signaling. *Redox Biology*, **2019**, 20, 526-532	11.3	14
67	Low-dose cadmium disrupts mitochondrial citric acid cycle and lipid metabolism in mouse lung. *Free Radical Biology and Medicine*, **2019**, 131, 209-217	7.8	26
66	Central Mitochondrial Signaling Mechanisms in Response to Environmental Agents **2018**, 639-654		1
65	Putrescine as indicator of manganese neurotoxicity: Dose-response study in human SH-SY5Y cells. *Food and Chemical Toxicology*, **2018**, 116, 272-280	4.7	9
64	Integrative metabolomics and transcriptomics signatures of clinical tolerance to Plasmodium vivax reveal activation of innate cell immunity and T cell signaling. *Redox Biology*, **2018**, 17, 158-170	11.3	43
63	Selenium supplementation prevents metabolic and transcriptomic responses to cadmium in mouse lung. *Biochimica Et Biophysica Acta - General Subjects*, **2018**, 1862, 2417-2426	4	13
62	Mitochondrial network responses in oxidative physiology and disease. *Free Radical Biology and Medicine*, **2018**, 116, 31-40	7.8	31
61	Selenium Supplementation Alters Hepatic Energy and Fatty Acid Metabolism in Mice. *Journal of Nutrition*, **2018**, 148, 675-684	4.1	30
60	xMWAS: a data-driven integration and differential network analysis tool. *Bioinformatics*, **2018**, 34, 701-702	7.2	77
59	Determination of thiocyanate in exhaled breath condensate. *Free Radical Biology and Medicine*, **2018**, 126, 334-340	7.8	7
58	Selenium at the redox interface of the genome, metabolome and exposome. *Free Radical Biology and Medicine*, **2018**, 127, 215-227	7.8	27
57	Myeloperoxidase oxidation of methionine associates with early cystic fibrosis lung disease. *European Respiratory Journal*, **2018**, 52,	13.6	20

56	Redox Equivalents and Mitochondrial Bioenergetics. *Methods in Molecular Biology*, **2018**, 1782, 197-227	1.4	3
55	Redox dynamics of manganese as a mitochondrial life-death switch. *Biochemical and Biophysical Research Communications*, **2017**, 482, 388-398	3.4	75
54	Cadmium stimulates myofibroblast differentiation and mouse lung fibrosis. *Toxicology*, **2017**, 383, 50-56	4.4	25
53	Hypoxia inhibits expression and function of mitochondrial thioredoxin 2 to promote pulmonary hypertension. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2017**, 312, L599-L608	5.8	12
52	Redox theory of aging: implications for health and disease. *Clinical Science*, **2017**, 131, 1669-1688	6.5	92
51	From the Cover: Manganese Stimulates Mitochondrial H2O2 Production in SH-SY5Y Human Neuroblastoma Cells Over Physiologic as well as Toxicologic Range. *Toxicological Sciences*, **2017**, 155, 213-223	4.4	29
50	Computational Metabolomics: A Framework for the Million Metabolome. *Chemical Research in Toxicology*, **2016**, 29, 1956-1975	4	130
49	Nuclear Thioredoxin-1 Overexpression Attenuates Alcohol-Mediated Nrf2 Signaling and Lung Fibrosis. *Alcoholism: Clinical and Experimental Research*, **2016**, 40, 1846-56	3.7	9
48	Metabolic Pathways and Networks Associated With Tobacco Use in Military Personnel. *Journal of Occupational and Environmental Medicine*, **2016**, 58, S111-6	2	21
47	Deployment-Associated Exposure Surveillance With High-Resolution Metabolomics. *Journal of Occupational and Environmental Medicine*, **2016**, 58, S12-21	2	30
46	Population Screening for Biological and Environmental Properties of the Human Metabolic Phenotype **2016**, 167-211		18
45	Exposure Memory and Lung Regeneration. *Annals of the American Thoracic Society*, **2016**, 13 Suppl 2, S452-S461	4.7	6
44	Metabolic pathways of lung inflammation revealed by high-resolution metabolomics (HRM) of H1N1 influenza virus infection in mice. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2016**, 311, R906-R916	3.2	61
43	Low-dose oral cadmium increases airway reactivity and lung neuronal gene expression in mice. *Physiological Reports*, **2016**, 4, e12821	2.6	21
42	The cysteine proteome. *Free Radical Biology and Medicine*, **2015**, 84, 227-245	7.8	217
41	Low-Dose Cadmium Causes Metabolic and Genetic Dysregulation Associated With Fatty Liver Disease in Mice. *Toxicological Sciences*, **2015**, 147, 524-34	4.4	75
40	Reference Standardization for Mass Spectrometry and High-resolution Metabolomics Applications to Exposome Research. *Toxicological Sciences*, **2015**, 148, 531-43	4.4	123
39	Disturbed flow induces systemic changes in metabolites in mouse plasma: a metabolomics study using ApoE?/? mice with partial carotid ligation. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2015**, 308, R62-72	3.2	35

38	Metabolome-wide association study of phenylalanine in plasma of common marmosets. *Amino Acids*, **2015**, 47, 589-601	3.5	36
37	Anticancer therapeutic potential of Mn porphyrin/ascorbate system. *Free Radical Biology and Medicine*, **2015**, 89, 1231-47	7.8	48
36	Metabolic Characterization of the Common Marmoset (Callithrix jacchus). *PLoS ONE*, **2015**, 10, e0142916	3.7	20
35	Integrated redox proteomics and metabolomics of mitochondria to identify mechanisms of cd toxicity. *Toxicological Sciences*, **2014**, 139, 59-73	4.4	76
34	Mitochondrial metabolomics using high-resolution Fourier-transform mass spectrometry. *Methods in Molecular Biology*, **2014**, 1198, 43-73	1.4	34
33	Redox biology: interface of the exposome with the proteome, epigenome and genome. *Redox Biology*, **2014**, 2, 358-60	11.3	48
32	Disturbed flow enhances inflammatory signaling and atherogenesis by increasing thioredoxin-1 level in endothelial cell nuclei. *PLoS ONE*, **2014**, 9, e108346	3.7	21
31	Thiol/disulfide redox states in signaling and sensing. *Critical Reviews in Biochemistry and Molecular Biology*, **2013**, 48, 173-81	8.7	168
30	Selective targeting of the cysteine proteome by thioredoxin and glutathione redox systems. *Molecular and Cellular Proteomics*, **2013**, 12, 3285-96	7.6	62
29	Actin cytoskeleton redox proteome oxidation by cadmium. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2013**, 305, L831-43	5.8	38
28	Increased nuclear thioredoxin-1 potentiates cadmium-induced cytotoxicity. *Toxicological Sciences*, **2013**, 131, 84-94	4.4	30
27	The redox proteome. *Journal of Biological Chemistry*, **2013**, 288, 26512-20	5.4	174
26	H(2)S inhibits oscillatory shear stress-induced monocyte binding to endothelial cells via nitric oxide production. *Molecules and Cells*, **2012**, 34, 449-55	3.5	14
25	Redox equivalents and mitochondrial bioenergetics. *Methods in Molecular Biology*, **2012**, 810, 249-80	1.4	7
24	Cysteine/cystine redox signaling in cardiovascular disease. *Free Radical Biology and Medicine*, **2011**, 50, 495-509	7.8	272
23	Mapping the cysteine proteome: analysis of redox-sensing thiols. *Current Opinion in Chemical Biology*, **2011**, 15, 103-12	9.7	64
22	Maneb and paraquat-mediated neurotoxicity: involvement of peroxiredoxin/thioredoxin system. *Toxicological Sciences*, **2011**, 121, 368-75	4.4	45
21	Increased inflammatory signaling and lethality of influenza H1N1 by nuclear thioredoxin-1. *PLoS ONE*, **2011**, 6, e18918	3.7	25

20	Protein Cysteines Map to Functional Networks According to Steady-state Level of Oxidation. *Journal of Proteomics and Bioinformatics*, **2011**, 4, 196-209	2.1	35
19	Redox clamp model for study of extracellular thiols and disulfides in redox signaling. *Methods in Enzymology*, **2010**, 474, 165-79	1.7	20
18	Redox control systems in the nucleus: mechanisms and functions. *Antioxidants and Redox Signaling*, **2010**, 13, 489-509	8.4	149
17	A key role for mitochondria in endothelial signaling by plasma cysteine/cystine redox potential. *Free Radical Biology and Medicine*, **2010**, 48, 275-83	7.8	88
16	Gene and protein responses of human monocytes to extracellular cysteine redox potential. *Toxicological Sciences*, **2009**, 112, 354-62	4.4	21
15	Thioredoxin redox western analysis. *Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]*, **2009**, Chapter 17, Unit17.12	1	20
14	Quantification of redox conditions in the nucleus. *Methods in Molecular Biology*, **2009**, 464, 303-17	1.4	38
13	Nonequilibrium thermodynamics of thiol/disulfide redox systems: a perspective on redox systems biology. *Free Radical Biology and Medicine*, **2008**, 44, 921-37	7.8	443
12	Redox compartmentalization in eukaryotic cells. *Biochimica Et Biophysica Acta - General Subjects*, **2008**, 1780, 1273-90	4	456
11	Identification of thioredoxin-2 as a regulator of the mitochondrial permeability transition. *Toxicological Sciences*, **2008**, 105, 44-50	4.4	43
10	Selective protection of nuclear thioredoxin-1 and glutathione redox systems against oxidation during glucose and glutamine deficiency in human colonic epithelial cells. *Free Radical Biology and Medicine*, **2007**, 42, 363-70	7.8	58
9	Mitochondrial thioredoxin-2/peroxiredoxin-3 system functions in parallel with mitochondrial GSH system in protection against oxidative stress. *Archives of Biochemistry and Biophysics*, **2007**, 465, 119-26	4.1	113
8	Reactive aldehyde modification of thioredoxin-1 activates early steps of inflammation and cell adhesion. *American Journal of Pathology*, **2007**, 171, 1670-81	5.8	81
7	Nuclear and mitochondrial compartmentation of oxidative stress and redox signaling. *Annual Review of Pharmacology and Toxicology*, **2006**, 46, 215-34	17.9	330
6	Tissue Distribution and Mitochondrial Localization of Human Thioredoxin 2 (hTrx2) in transgenic mice. *FASEB Journal*, **2006**, 20, LB102	0.9	
5	Compartmental oxidation of thiol-disulphide redox couples during epidermal growth factor signalling. *Biochemical Journal*, **2005**, 386, 215-9	3.8	141
4	Intracellular proatherogenic events and cell adhesion modulated by extracellular thiol/disulfide redox state. *Circulation*, **2005**, 111, 2973-80	16.7	131
3	Extracellular cysteine/cystine redox regulates the p44/p42 MAPK pathway by metalloproteinase-dependent epidermal growth factor receptor signaling. *American Journal of Physiology - Renal Physiology*, **2005**, 289, G70-8	5.1	49

2	H2O2-dependent activation of GCLC-ARE4 reporter occurs by mitogen-activated protein kinase pathways without oxidation of cellular glutathione or thioredoxin-1. *Journal of Biological Chemistry*, **2004**, 279, 5837-45	5.4	80
1	xMWAS: an R package for data-driven integration and differential network analysis		1