Jose Vina

List of Publications by Year in descending order

297 papers	23,256 citations	6323 78 h-index	8857 139 g-index
340 all docs	340 docs citations	340 times ranked	23398 citing authors

#	Article	IF	Citations
1	Searching for an Operational Definition of Frailty: A Delphi Method Based Consensus Statement. The Frailty Operative Definition-Consensus Conference Project. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2013, 68, 62-67.	3.7	923
2	Moderate exercise is an antioxidant: Upregulation of antioxidant genes by training. Free Radical Biology and Medicine, 2008, 44, 126-131.	4.4	789
3	Oral administration of vitamin C decreases muscle mitochondrial biogenesis and hampers training-induced adaptations in endurance performance. American Journal of Clinical Nutrition, 2008, 87, 142-149.	4.6	694
4	Mitochondria from females exhibit higher antioxidant gene expression and lower oxidative damage than males. Free Radical Biology and Medicine, 2003, 34, 546-552.	4.4	545
5	Delayed ageing through damage protection by the Arf/p53 pathway. Nature, 2007, 448, 375-379.	35.3	443
6	Telomerase Reverse Transcriptase Delays Aging in Cancer-Resistant Mice. Cell, 2008, 135, 609-622.	27.3	404
7	Resuscitation With Room Air Instead of 100% Oxygen Prevents Oxidative Stress in Moderately Asphyxiated Term Neonates. Pediatrics, 2001, 107, 642-647.	2.2	397
8	A Multicomponent Exercise Intervention that Reverses Frailty and Improves Cognition, Emotion, and Social Networking in the Community-Dwelling Frail Elderly: A Randomized Clinical Trial. Journal of the American Medical Directors Association, 2016, 17, 426-433.	2.5	387
9	Decreasing xanthine oxidaseâ€mediated oxidative stress prevents useful cellular adaptations to exercise in rats. Journal of Physiology, 2005, 567, 113-120.	2.8	385
10	Why Women Have More Alzheimer's Disease Than Men: Gender and Mitochondrial Toxicity of Amyloid-Î² Peptide. Journal of Alzheimer's Disease, 2010, 20, S527-S533.	2.7	372
11	Mitochondrial Oxidative Stress Plays a Key Role in Aging and Apoptosis. IUBMB Life, 2000, 49, 427-435.	3.5	331
12	Are we sure we know how to measure 8-oxo-7,8-dihydroguanine in DNA from human cells?. Archives of Biochemistry and Biophysics, 2004, 423, 57-65.	3.1	290
13	The role of mitochondrial oxidative stress in aging. Free Radical Biology and Medicine, 2003, 35, 1-8.	4.4	288
14	Mitochondrial glutathione oxidation correlates with ageâ€associated oxidative damage to mitochondrial DNA. FASEB Journal, 1996, 10, 333-338.	0.4	285
15	Physical exercise in the prevention and treatment of Alzheimer's disease. Journal of Sport and Health Science, 2020, 9, 394-404.	7.0	284
16	Oxidative stress in asphyxiated term infants resuscitated with 100% oxygen. Journal of Pediatrics, 2003, 142, 240-246.	2.2	281
17	Room-Air Resuscitation Causes Less Damage to Heart and Kidney than 100% Oxygen. American Journal of Respiratory and Critical Care Medicine, 2005, 172, 1393-1398.	6.3	247
18	Mitochondria, oxidative stress and aging. Free Radical Research, 2000, 32, 189-198.	3.2	245

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19	17Î²-oestradiol up-regulates longevity-related, antioxidant enzyme expression via the ERK1 and ERK2 [MAPK]/NFÎºB cascade. Aging Cell, 2005, 4, 113-118.	6.7	240
20	AÎ² and tau toxicities in Alzheimerâ€™s are linked via oxidative stress-induced p38 activation: Protective role of vitamin E. Redox Biology, 2014, 2, 873-877.	9.0	220
21	Aging of the liver: Age-associated mitochondrial damage in intact hepatocytes. Hepatology, 1996, 24, 1199-1205.	8.0	213
22	Sarcopenia, frailty and their prevention by exercise. Free Radical Biology and Medicine, 2019, 132, 42-49.	4.4	213
23	Vitamin E Paradox in Alzheimer's Disease: It Does Not Prevent Loss of Cognition and May Even Be Detrimental. Journal of Alzheimer's Disease, 2009, 17, 143-149.	2.7	202
24	Mitochondrial biogenesis in exercise and in ageingâ¯†. Advanced Drug Delivery Reviews, 2009, 61, 1369-1374.	14.0	199
25	G6PD protects from oxidative damage and improves healthspan in mice. Nature Communications, 2016, 7, 10894.	12.8	190
26	Shifts in gut microbiota composition in an APP/PSS1 transgenic mouse model of Alzheimer's disease during lifespan. Letters in Applied Microbiology, 2018, 66, 464-471.	2.2	189
27	Theories of ageing. IUBMB Life, 2007, 59, 249-254.	3.5	187
28	The Free Radical Theory of Aging Revisited: The Cell Signaling Disruption Theory of Aging. Antioxidants and Redox Signaling, 2013, 19, 779-787.	5.4	183
29	A Ginkgo Biloba Extract (EGb 761) Prevents Mitochondrial Aging by Protecting Against Oxidative Stress. Free Radical Biology and Medicine, 1998, 24, 298-304.	4.4	181
30	Direct antioxidant and protective effect of estradiol on isolated mitochondria. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2010, 1802, 205-211.	3.7	180
31	L-cysteine and glutathione metabolism are impaired in premature infants due to cystathionase deficiency. American Journal of Clinical Nutrition, 1995, 61, 1067-1069.	4.6	176
32	Oxidative damage to mitochondrial DNA and glutathione oxidation in apoptosis: studiesin vivoandin vitro. FASEB Journal, 1999, 13, 1055-1064.	0.4	171
33	A High-Performance Liquid Chromatography Method for Measurement of Oxidized Glutathione in Biological Samples. Analytical Biochemistry, 1994, 217, 323-328.	2.4	170
34	Dietary soy isoflavoneâ€induced increases in antioxidant and eNOS gene expression lead to improved endothelial function and reduced blood pressure in vivo. FASEB Journal, 2005, 19, 1755-1757.	0.4	170
35	Estradiol or genistein prevent Alzheimer's disease-associated inflammation correlating with an increase PPARÎ³ expression in cultured astrocytes. Brain Research, 2010, 1312, 138-144.	2.3	169
36	AZT treatment induces molecular and ultrastructural oxidative damage to muscle mitochondria. Prevention by antioxidant vitamins.. Journal of Clinical Investigation, 1998, 102, 4-9.	6.5	168

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37	Glutathione Is Recruited into the Nucleus in Early Phases of Cell Proliferation. Journal of Biological Chemistry, 2007, 282, 20416-20424.	3.4	167
38	Mechanism of Free Radical Production in Exhaustive Exercise in Humans and Rats; Role of Xanthine Oxidase and Protection by Allopurinol. IUBMB Life, 2000, 49, 539-544.	3.5	159
39	Free Radicals in Exhaustive Physical Exercise: Mechanism of Production, and Protection by Antioxidants. IUBMB Life, 2000, 50, 271-277.	3.5	158
40	Role of nuclear glutathione as a key regulator of cell proliferation. Molecular Aspects of Medicine, 2009, 30, 77-85.	6.6	158
41	Copenhagen Consensus statement 2019: physical activity and ageing. British Journal of Sports Medicine, 2019, 53, 856-858.	8.5	158
42	Relevance of Oxygen Concentration in Stem Cell Culture for Regenerative Medicine. International Journal of Molecular Sciences, 2019, 20, 1195.	4.1	157
43	Maintenance of glutathione content is isolated hepatocyctes. Biochemical Journal, 1978, 170, 627-630.	3.7	156
44	Genistein, a soy isoflavone, upâ€regulates expression of antioxidant genes: involvement of estrogen receptors, ERK1/2, and NFÎºB. FASEB Journal, 2006, 20, 2136-2138.	0.4	156
45	[23] Ratio of reduced to oxidized glutathione as indicator of oxidative stress status and DNA damage. Methods in Enzymology, 1999, 299, 267-276.	1.7	152
46	Effect of ethanol on glutathione concentration in isolated hepatocytes. Biochemical Journal, 1980, 188, 549-552.	3.7	151
47	Redox modulation of mitochondriogenesis in exercise. Does antioxidant supplementation blunt the benefits of exercise training?. Free Radical Biology and Medicine, 2015, 86, 37-46.	4.4	149
48	Blood Glutathione as an Index of Radiation-Induced Oxidative Stress in Mice and Humans. Free Radical Biology and Medicine, 1997, 22, 1203-1209.	4.4	147
49	Lipid peroxidation as measured by chromatographic determination of malondialdehyde. Human plasma reference values in health and disease. Archives of Biochemistry and Biophysics, 2021, 709, 108941.	3.1	146
50	Mitochondrial Theory of Aging: Importance to Explain Why Females Live Longer Than Males. Antioxidants and Redox Signaling, 2003, 5, 549-556.	5.4	129
51	Ursodeoxycholic acid protects against secondary biliary cirrhosis in rats by preventing mitochondrial oxidative stress. Hepatology, 2004, 39, 711-720.	8.0	127
52	Amyloid-Î² Toxicity and Tau Hyperphosphorylation are Linked Via RCAN1 in Alzheimer's Disease. Journal of Alzheimer's Disease, 2011, 27, 701-709.	2.7	127
53	Oxidative Stress Is Related to Frailty, Not to Age or Sex, in a Geriatric Population: Lipid and Protein Oxidation as Biomarkers of Frailty. Journal of the American Geriatrics Society, 2014, 62, 1324-1328.	2.9	125
54	PTEN recruitment controls synaptic and cognitive function in Alzheimer's models. Nature Neuroscience, 2016, 19, 443-453.	14.3	124

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55	Interaction Between Cytokines and Oxidative Stress in Acute Pancreatitis. Current Medicinal Chemistry, 2006, 13, 2775-2787.	2.4	123
56	Role of mitochondrial oxidative stress to explain the different longevity between genders. Protective effect of estrogens. Free Radical Research, 2006, 40, 1359-1365.	3.2	121
57	Xanthine oxidase is involved in exercise-induced oxidative stress in chronic obstructive pulmonary disease. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1999, 277, R1697-R1704.	1.8	119
58	Molecular bases of the treatment of Alzheimer's disease with antioxidants: prevention of oxidative stress. Molecular Aspects of Medicine, 2004, 25, 117-123.	6.6	119
59	Effect of Simultaneous Inhibition of TNF-?? Production and Xanthine Oxidase in Experimental Acute Pancreatitis. Annals of Surgery, 2004, 240, 108-116.	4.4	116
60	Exercise-Induced Systemic Effects in Muscle-Wasted Patients with COPD. Medicine and Science in Sports and Exercise, 2006, 38, 1543-1552.	0.4	115
61	Mitochondrial oxidative stress and CD95 ligand: A dual mechanism for hepatocyte apoptosis in chronic alcoholism. Hepatology, 2002, 35, 1205-1214.	8.0	112
62	Age associated low mitochondrial biogenesis may be explained by lack of response of PGC-1Î± to exercise training. Age, 2012, 34, 669-679.	2.9	111
63	Molecular mechanisms linking amyloid Î² toxicity and Tau hyperphosphorylation in Alzheimer×³s disease. Free Radical Biology and Medicine, 2015, 83, 186-191.	4.4	106
64	Exhaustive physical exercise causes oxidation of glutathione status in blood: prevention by antioxidant administration. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1992, 263, R992-R995.	1.8	105
65	Why Females Live Longer Than Males: Control of Longevity by Sex Hormones. Science of Aging Knowledge Environment: SAGE KE, 2005, 2005, pe17.	0.3	103
66	Allopurinol and Markers of Muscle Damage Among Participants in the Tour de France. JAMA - Journal of the American Medical Association, 2003, 289, 2503-2504.	6.9	102
67	Oxidative stress in marathon runners: interest of antioxidant supplementation. British Journal of Nutrition, 2006, 96, S31-S33.	2.6	99
68	Circulating miRNAs and miRNA shuttles as biomarkers: Perspective trajectories of healthy and unhealthy aging. Mechanisms of Ageing and Development, 2017, 165, 162-170.	4.6	98
69	Mitochondrial involvement in non-alcoholic steatohepatitis. Molecular Aspects of Medicine, 2008, 29, 22-35.	6.6	94
70	Inhibition of Xanthine Oxidase by Allopurinol Prevents Skeletal Muscle Atrophy: Role of p38 MAPKinase and E3 Ubiquitin Ligases. PLoS ONE, 2012, 7, e46668.	2.5	94
71	The Depletion of Nuclear Glutathione Impairs Cell Proliferation in 3t3 Fibroblasts. PLoS ONE, 2009, 4, e6413.	2.5	92
72	Antiâ€aging activity of the Ink4/Arf locus. Aging Cell, 2009, 8, 152-161.	6.7	92

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73	Xanthine oxidase-induced oxidative stress causes activation of NF-Î¤B and inflammation in the liver of type I diabetic rats. Free Radical Biology and Medicine, 2010, 49, 171-177.	4.4	90
74	Histone H3 Glutathionylation in Proliferating Mammalian Cells Destabilizes Nucleosomal Structure. Antioxidants and Redox Signaling, 2013, 19, 1305-1320.	5.4	89
75	Interaction between 24-hydroxycholesterol, oxidative stress, and amyloid-Î² in amplifying neuronal damage in Alzheimerâ€™s disease: three partners in crime. Aging Cell, 2011, 10, 403-417.	6.7	87
76	Centenarians, but not octogenarians, up-regulate the expression of microRNAs. Scientific Reports, 2012, 2, 961.	3.4	87
77	The effect of cysteine oxidation on isolated hepatocytes. Biochemical Journal, 1983, 212, 39-44.	3.7	85
78	Hyperoxemia caused by resuscitation with pure oxygen may alter intracellular redox status by increasing oxidized glutathione in asphyxiated newly born infants. Seminars in Perinatology, 2002, 26, 406-410.	2.5	81
79	Zidovudine (AZT) causes an oxidation of mitochondrial DNA in mouse liver. Hepatology, 1999, 29, 985-987.	8.0	79
80	Inactivityâ€induced oxidative stress: A central role in ageâ€related sarcopenia?. European Journal of Sport Science, 2014, 14, S98-108.	2.6	79
81	Clearing Amyloid-Î² through PPARÎ³/ApoE Activation by Genistein is a Treatment of Experimental Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2016, 51, 701-711.	2.7	79
82	Oxidative signature of cerebrospinal fluid from mild cognitive impairment and Alzheimer disease patients. Free Radical Biology and Medicine, 2016, 91, 1-9.	4.4	79
83	A free radical theory of frailty. Free Radical Biology and Medicine, 2018, 124, 358-363.	4.4	79
84	Life-long spontaneous exercise does not prolong lifespan but improves health span in mice. Longevity & Healthspan, 2013, 2, 14.	7.7	77
85	Inter-laboratory Validation of Procedures for Measuring 8-oxo-7,8-dihydroguanine/8-oxo-7,8-dihydro-2â€²-deoxyguanosine in DNA. Free Radical Research, 2002, 36, 239-245.	3.2	75
86	Oestradiol or genistein rescues neurons from amyloid betaâ€induced cell death by inhibiting activation of p38. Aging Cell, 2008, 7, 112-118.	6.7	75
87	Depletion of tumour glutathione in vivo by buthionine sulphoximine: modulation by the rate of cellular proliferation and inhibition of cancer growth. Biochemical Journal, 1993, 292, 477-483.	3.7	72
88	Antioxidant supplements in exercise: worse than useless?. American Journal of Physiology - Endocrinology and Metabolism, 2012, 302, E476-E477.	3.7	70
89	Exercise causes blood glutathione oxidation in chronic obstructive pulmonary disease: prevention by O₂ therapy. Journal of Applied Physiology, 1996, 81, 2199-2202.	2.6	69
90	Glutathione Regulates Telomerase Activity in 3T3 Fibroblasts. Journal of Biological Chemistry, 2004, 279, 34332-34335.	3.4	69

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91	Physiological changes in glutathione metabolism in foetal and newborn rat liver. Biochemical Journal, 1991, 274, 891-893.	3.7	68
92	Exercise: the lifelong supplement for healthy ageing and slowing down the onset of frailty. Journal of Physiology, 2016, 594, 1989-1999.	2.8	68
93	A New Frailty Score for Experimental Animals Based on the Clinical Phenotype: Inactivity as a Model of Frailty. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, 885-891.	3.7	68
94	Mitochondria as sources and targets of damage in cellular aging. Clinical Chemistry and Laboratory Medicine, 2012, 50, 1287-95.	2.3	66
95	Interplay of Oxidants and Antioxidants During Exercise: Implications for Muscle Health. Physician and Sportsmedicine, 2009, 37, 116-123.	2.2	64
96	Growth Hormone Replacement Therapy Prevents Sarcopenia by a Dual Mechanism: Improvement of Protein Balance and of Antioxidant Defenses. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69, 1186-1198.	3.7	64
97	Decreased urea synthesis in cafeteria-diet-induced obesity in the rat. Biochemical Journal, 1985, 230, 675-681.	3.7	62
98	Age-related increase in xanthine oxidase activity in human plasma and rat tissues. Free Radical Research, 2007, 41, 1195-1200.	3.2	62
99	Biology of frailty: Modulation of ageing genes and its importance to prevent age-associated loss of function. Molecular Aspects of Medicine, 2016, 50, 88-108.	6.6	61
100	Effect of xanthine oxidase-generated extracellular superoxide on skeletal muscle force generation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 298, R2-R8.	1.8	60
101	A Stress-Resistant Lipidomic Signature Confers Extreme Longevity to Humans. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, 30-37.	3.7	60
102	Centenarians: An excellent example of resilience for successful ageing. Mechanisms of Ageing and Development, 2020, 186, 111199.	4.6	59
103	AZT induces oxidative damage to cardiac mitochondria: Protective effect of vitamins C and E. Life Sciences, 2004, 76, 47-56.	4.3	58
104	Physical exercise neuroprotects ovariectomized 3xTg-AD mice through BDNF mechanisms. Psychoneuroendocrinology, 2014, 45, 154-166.	2.7	58
105	Effect of oral glutathione on hepatic glutathione levels in rats and mice. British Journal of Nutrition, 1989, 62, 683-691.	2.6	57
106	Early, But Not Late Onset Estrogen Replacement Therapy Prevents Oxidative Stress and Metabolic Alterations Caused by Ovariectomy. Antioxidants and Redox Signaling, 2014, 20, 236-246.	5.4	57
107	Moderate Exercise Improves Experimental Cancer Cachexia by Modulating the Redox Homeostasis. Cancers, 2019, 11, 285.	3.8	57
108	Exceptional human longevity is associated with a specific plasma phenotype of ether lipids. Redox Biology, 2019, 21, 101127.	9.0	57

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109	Gender and age-dependent differences in the mitochondrial apoptogenic pathway in Alzheimer's disease. Free Radical Biology and Medicine, 2008, 44, 2019-2025.	4.4	55
110	Sex Differences in Age-Associated Type 2 Diabetes in Ratsâ€"Role of Estrogens and Oxidative Stress. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-13.	4.1	54
111	Mitochondrial DNA sequences are present inside nuclear DNA in rat tissues and increase with age. Mitochondrion, 2010, 10, 479-486.	3.5	53
112	Antioxidant Pathways in Alzheimers Disease: Possibilities of Intervention. Current Pharmaceutical Design, 2011, 17, 3861-3864.	1.8	53
113	Contraction of human airways by oxidative stress. Free Radical Biology and Medicine, 1999, 27, 392-400.	4.4	52
114	Role of glutathione in cell nucleus. Free Radical Research, 2010, 44, 721-733.	3.2	52
115	The dual role of p53: DNA protection and antioxidant. Free Radical Research, 2011, 45, 643-652.	3.2	50
116	Glutathione, oxidative stress and aging. Age, 1996, 19, 129-139.	2.9	49
117	Modulation of longevity-associated genes by estrogens or phytoestrogens. Biological Chemistry, 2008, 389, 273-277.	2.5	49
118	Antioxidant administration to the mother prevents oxidative stress associated with birth in the neonatal rat. Life Sciences, 1994, 54, 2055-2059.	4.3	48
119	Decreased cell proliferation and higher oxidative stress in fibroblasts from Down Syndrome fetuses. Preliminary study. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2014, 1842, 116-125.	3.7	48
120	Roles of sedentary aging and lifelong physical activity in exchange of glutathione across exercising human skeletal muscle. Free Radical Biology and Medicine, 2014, 73, 166-173.	4.4	48
121	[21] Assay of blood glutathione oxidation during physical exercise. Methods in Enzymology, 1995, 251, 237-243.	1.7	47
122	Effect of Long-term Dietary Antioxidant Supplementation on Influenza Virus Infection. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2000, 55, B496-B503.	3.7	47
123	Women Live Longer than Men: Understanding Molecular Mechanisms Offers Opportunities to Intervene by Using Estrogenic Compounds. Antioxidants and Redox Signaling, 2010, 13, 269-278.	5.4	47
124	Melatonin and oestrogen treatments were able to improve neuroinflammation and apoptotic processes in dentate gyrus of old ovariectomized female rats. Age, 2014, 36, 9707.	2.9	47
125	[35] Determination of oxidized glutathione in blood: High-performance liquid chromatography. Methods in Enzymology, 1994, 234, 367-371.	1.7	46
126	Epigenetic biomarkers: A new perspective in laboratory diagnostics. Clinica Chimica Acta, 2012, 413, 1576-1582.	1.6	46

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127	Resveratrol: distribuciÃ³n, propiedades y perspectivas. Revista Espanola De Geriatria Y Gerontologia, 2013, 48, 79-88.	0.4	46
128	Mitochondrial biogenesis fails in secondary biliary cirrhosis in rats leading to mitochondrial DNA depletion and deletions. American Journal of Physiology - Renal Physiology, 2011, 301, G119-G127.	3.5	45
129	Small extracellular vesicles from young adipose-derived stem cells prevent frailty, improve health span, and decrease epigenetic age in old mice. Science Advances, 2022, 8, .	10.7	45
130	Involvement of Î³-glutamyltransferase in amino-acid uptake by the lactating mammary gland of the rat. Biochemical Journal, 1981, 194, 99-102.	3.7	44
131	Circadian System Functionality, Hippocampal Oxidative Stress, and Spatial Memory in the APPswe/PS1dE9 Transgenic Model of Alzheimer Disease: Effects of Melatonin or Ramelteon. Chronobiology International, 2012, 29, 822-834.	1.9	44
132	Regulation of glutathione metabolism in Ehrlich ascites tumour cells. Biochemical Journal, 1992, 286, 257-262.	3.7	43
133	A role for gammaâ€glutamyl transpeptidase and the amino acid transport system xcâ€in cystine transport by a human pancreatic duct cell line.. Journal of Physiology, 1995, 485, 167-177.	2.8	43
134	Mitochondrial Oxidant Signalling in Alzheimer's Disease. Journal of Alzheimer's Disease, 2007, 11, 175-181.	2.7	43
135	Free [NADH]/[NAD+] regulates sirtuin expression. Archives of Biochemistry and Biophysics, 2011, 512, 24-29.	3.1	43
136	Role of p16INK4a and BMI-1 in oxidative stress-induced premature senescence in human dental pulp stem cells. Redox Biology, 2017, 12, 690-698.	9.0	43
137	Reductive stress in young healthy individuals at risk of Alzheimer disease. Free Radical Biology and Medicine, 2013, 63, 274-279.	4.4	42
138	Alzheimer's disease: Only prevention makes sense. European Journal of Clinical Investigation, 2018, 48, e13005.	3.4	42
139	Extracellular Vesicles from Healthy Cells Improves Cell Function and Stemness in Premature Senescent Stem Cells by miR-302b and HIF-1Î± Activation. Biomolecules, 2020, 10, 957.	4.1	42
140	Redox-related biomarkers in physical exercise. Redox Biology, 2021, 42, 101956.	9.0	42
141	Repeated muscle biopsies through a single skin incision do not elicit muscle signaling, but IL-6 mRNA and STAT3 phosphorylation increase in injured muscle. Journal of Applied Physiology, 2011, 110, 1708-1715.	2.6	41
142	PTEN Mediates the Antioxidant Effect of Resveratrol at Nutritionally Relevant Concentrations. BioMed Research International, 2014, 2014, 1-6.	1.9	41
143	A New Functional Classification Based on Frailty and Disability Stratifies the Risk for Mortality Among Older Adults: The FRADEA Study. Journal of the American Medical Directors Association, 2019, 20, 1105-1110.	2.5	40
144	Evaluation of an Antioxidant and Anti-inflammatory Cocktail Against Human Hypoactivity-Induced Skeletal Muscle Deconditioning. Frontiers in Physiology, 2020, 11, 71.	2.8	39

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145	The effect of cysteine and N-acetyl cysteine on rat liver glutathione (GSH). Biochemical Pharmacology, 1983, 32, 3483-3485.	4.5	38
146	Phosphatidylglycerol Potently Protects Human Retinal Pigment Epithelial Cells Against Apoptosis Induced by A2E, a Compound Suspected to Cause Age-related Macula Degeneration. Experimental Eye Research, 2002, 75, 99-108.	2.6	38
147	Frailty Quantified by the â€œValencia Scoreâ€•as a Potential Predictor of Lifespan in Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 1323-1329.	3.7	38
148	Impairment of cysteine synthesis from methionine in rats exposed to surgical stress. British Journal of Nutrition, 1992, 68, 421-429.	2.6	37
149	Id2 leaves the chromatin of the E2F4â€“p130-controlled c-myc promoter during hepatocyte priming for liver regeneration. Biochemical Journal, 2006, 398, 431-437.	3.7	37
150	Key Messages for a Frailty Prevention and Management Policy in Europe from the Advantage Joint Action Consortium. Journal of Nutrition, Health and Aging, 2018, 22, 892-897.	3.5	37
151	Fostering antioxidant defences: up-regulation of antioxidant genes or antioxidant supplementation?. British Journal of Nutrition, 2007, 98, S36-S40.	2.6	36
152	Metabolomic analysis of long-term spontaneous exercise in mice suggests increased lipolysis and altered glucose metabolism when animals are at rest. Journal of Applied Physiology, 2014, 117, 1110-1119.	2.6	36
153	Allopurinol prevents cardiac and skeletal muscle damage in professional soccer players. Scandinavian Journal of Medicine and Science in Sports, 2015, 25, e110-5.	2.8	36
154	Role of Redox Signaling and Inflammation in Skeletal Muscle Adaptations to Training. Antioxidants, 2016, 5, 48.	5.1	36
155	AÎ² Induces Excitotoxicity Mediated by APC/C-Cdh1 Depletion That Can Be Prevented by Glutaminase Inhibition Promoting Neuronal Survival. Scientific Reports, 2016, 6, 31158.	3.4	36
156	A robust machine learning framework to identify signatures for frailty: a nested case-control study in four aging European cohorts. GeroScience, 2021, 43, 1317-1329.	4.7	36
157	Effect of premature weaning on amino acid uptake by the mammary gland of lactating rats. Biochemical Journal, 1981, 200, 705-708.	3.7	35
158	The free radical theory of frailty: Mechanisms and opportunities for interventions to promote successful aging. Free Radical Biology and Medicine, 2019, 134, 690-694.	4.4	35
159	Effects of glutathione depletion on gluconeogenesis in isolated hepatocytes. Archives of Biochemistry and Biophysics, 1985, 241, 75-80.	3.1	34
160	Hepatic Î³-Cystathionase Deficiency in Patients With AIDS. JAMA - Journal of the American Medical Association, 2001, 285, 1444.	6.9	33
161	Desmopresssin and Hemodilution: Implications in Doping. International Journal of Sports Medicine, 2010, 31, 5-9.	1.8	33
162	Methodological considerations to determine the effect of exercise on brain-derived neurotrophic factor levels. Clinical Biochemistry, 2015, 48, 162-166.	2.0	33

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163	Targeting Alzheimerâ€™s disease with multimodal polypeptide-based nanoconjugates. Science Advances, 2021, 7, .	10.7	33
164	Effect of Gender on Mitochondrial Toxicity of Alzheimer's AÎ²Peptide. Antioxidants and Redox Signaling, 2007, 9, 1677-1690.	5.4	32
165	Current limitations of the Athlete's Biological Passport use in sports. Clinical Chemistry and Laboratory Medicine, 2011, 49, 1413-5.	2.3	32
166	Extracellular vesicles and redox modulation in aging. Free Radical Biology and Medicine, 2020, 149, 44-50.	4.4	32
167	Differences between cysteine and homocysteine in the induction of deoxyribose degradation and DNA damage. Free Radical Biology and Medicine, 2001, 30, 354-362.	4.4	31
168	Activation of p38, p21, and NRF-2 Mediates Decreased Proliferation of Human Dental Pulp Stem Cells Cultured under 21% O2. Stem Cell Reports, 2014, 3, 566-573.	4.7	31
169	Redox modulation of muscle mass and function. Redox Biology, 2020, 35, 101531.	9.0	31
170	Effects of cysteine and N-acetyl cysteine on GSH content of brain of adult rats. Cellular and Molecular Life Sciences, 1983, 39, 164-165.	5.4	30
171	Histone carbonylation occurs in proliferating cells. Free Radical Biology and Medicine, 2012, 52, 1453-1464.	4.4	30
172	Glutathione depletion by hyperphagia-induced obesity. Life Sciences, 1989, 45, 183-187.	4.3	29
173	Age-related changes in glutathione synthesis in the eye lens. Biochemical Journal, 1990, 269, 531-534.	3.7	29
174	Late onset administration of oral antioxidants prevents age-related loss of motor co-ordination and brain mitochondrial DNA damage. Free Radical Research, 1998, 29, 617-623.	3.2	29
175	Allopurinol partially prevents disuse muscle atrophy in mice and humans. Scientific Reports, 2018, 8, 3549.	3.4	29
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