Cesar G Fraga

List of Publications by Year
in descending order

96 papers	10,674 citations	28190 55 h-index	35952 97 g-index
121 all docs	121 docs citations	121 times ranked	11801 citing authors

#	Article	IF	Citations
1	Relevance, essentiality and toxicity of trace elements in human health. Molecular Aspects of Medicine, 2005, 26, 235-244.	2.7	720
2	The effects of polyphenols and other bioactives on human health. Food and Function, 2019, 10, 514-528.	2.1	664
3	Lipid peroxidation measured as thiobarbituric acid-reactive substances in tissue slices: characterization and comparison with homogenates and microsomes. Free Radical Biology and Medicine, 1988, 4, 155-161.	1.3	618
4	Basic biochemical mechanisms behind the health benefits of polyphenols. Molecular Aspects of Medicine, 2010, 31, 435-445.	2.7	549
5	Procyanidin dimer B2 [epicatechin-(4Î²-8)-epicatechin] in human plasma after the consumption of a flavanol-rich cocoa. American Journal of Clinical Nutrition, 2002, 76, 798-804.	2.2	492
6	Flavonoid-membrane Interactions: A Protective Role of Flavonoids at the Membrane Surface?. Clinical and Developmental Immunology, 2005, 12, 19-25.	3.3	298
7	Epicatechin in Human Plasma: In Vivo Determination and Effect of Chocolate Consumption on Plasma Oxidation Status. Journal of Nutrition, 2000, 130, 2109S-2114S.	1.3	293
8	Inhibition of Angiotensin Converting Enzyme Activity by Flavanol-Rich Foods. Journal of Agricultural and Food Chemistry, 2006, 54, 229-234.	2.4	264
9	A Dose-Response Effect from Chocolate Consumption on Plasma Epicatechin and Oxidative Damage. Journal of Nutrition, 2000, 130, 2115S-2119S.	1.3	246
10	Iron toxicity and antioxidant nutrients. Toxicology, 2002, 180, 23-32.	2.0	221
11	Flavonoids as antioxidants evaluated by in vitro and in situ liver chemiluminescence. Biochemical Pharmacology, 1987, 36, 717-720.	2.0	216
12	Dietary flavonoids: Role of (â^')-epicatechin and related procyanidins in cell signaling. Free Radical Biology and Medicine, 2011, 51, 813-823.	1.3	212
13	Increased chemiluminescence and superoxide production in the liver of chronically ethanol-treated rats. Archives of Biochemistry and Biophysics, 1983, 227, 534-541.	1.4	204
14	Inhibition of angiotensin converting enzyme (ACE) activity by flavan-3-ols and procyanidins. FEBS Letters, 2003, 555, 597-600.	1.3	203
15	Antioxidant actions of flavonoids: Thermodynamic and kinetic analysis. Archives of Biochemistry and Biophysics, 2010, 501, 23-30.	1.4	190
16	Influence of Oligomer Chain Length on the Antioxidant Activity of Procyanidins. Biochemical and Biophysical Research Communications, 2000, 276, 945-951.	1.0	188
17	Cocoa antioxidants and cardiovascular health. American Journal of Clinical Nutrition, 2005, 81, 298S-303S.	2.2	186
18	Research trends in flavonoids and health. Archives of Biochemistry and Biophysics, 2018, 646, 107-112.	1.4	184

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19	Flavan-3-ols and procyanidins protect liposomes against lipid oxidation and disruption of the bilayer structure. Free Radical Biology and Medicine, 2003, 34, 84-92.	1.3	172
20	Plant polyphenols: How to translate their in vitro antioxidant actions to in vivo conditions. IUBMB Life, 2007, 59, 308-315.	1.5	170
21	Enalapril and losartan attenuate mitochondrial dysfunction in aged rats. FASEB Journal, 2003, 17, 1096-1098.	0.2	167
22	Epicatechin, catechin, and dimeric procyanidins inhibit PMAâ€induced NFâ€ºB activation at multiple steps in Jurkat T cells. FASEB Journal, 2004, 18, 167-169.	0.2	164
23	(+)-Catechin Prevents Human Plasma Oxidation. Free Radical Biology and Medicine, 1998, 24, 435-441.	1.3	156
24	Regular Consumption of a Flavanol-rich Chocolate can Improve Oxidant Stress in Young Soccer Players. Clinical and Developmental Immunology, 2005, 12, 11-17.	3.3	154
25	Curcumin induces cellâ€arrest and apoptosis in association with the inhibition of constitutively active NFâ€ºB and STAT3 pathways in Hodgkin's lymphoma cells. International Journal of Cancer, 2008, 123, 56-65.	2.3	137
26	In vitro measurements and interpretation of total antioxidant capacity. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 931-934.	1.1	124
27	Enalapril and captopril enhance glutathione-dependent antioxidant defenses in mouse tissues. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2000, 278, R572-R577.	0.9	117
28	(â˜)-Epicatechin mitigates high-fructose-associated insulin resistance by modulating redox signaling and endoplasmic reticulum stress. Free Radical Biology and Medicine, 2014, 72, 247-256.	1.3	110
29	Flavonoids and metabolic syndrome. Annals of the New York Academy of Sciences, 2012, 1259, 87-94.	1.8	108
30	Effects of aluminum on brain lipid peroxidation. Toxicology Letters, 1990, 51, 213-219.	0.4	106
31	Halogenated compounds as inducers of lipid peroxidation in tissue slices. Free Radical Biology and Medicine, 1987, 3, 119-123.	1.3	104
32	Antioxidant and Membrane Effects of Procyanidin Dimers and Trimers Isolated from Peanut and Cocoa. Journal of Agricultural and Food Chemistry, 2005, 53, 5041-5048.	2.4	97
33	(â˜)-Epicatechin prevents TNFÎ±-induced activation of signaling cascades involved in inflammation and insulin sensitivity in 3T3-L1 adipocytes. Archives of Biochemistry and Biophysics, 2012, 527, 113-118.	1.4	95
34	Anthocyanins protect the gastrointestinal tract from high fat diet-induced alterations in redox signaling, barrier integrity and dysbiosis. Redox Biology, 2019, 26, 101269.	3.9	94
35	Cyanidin and delphinidin modulate inflammation and altered redox signaling improving insulin resistance in high fat-fed mice. Redox Biology, 2018, 18, 16-24.	3.9	93
36	TNFÎ±-induced NF-ÎºB activation and cell oxidant production are modulated by hexameric procyanidins in Caco-2 cells. Archives of Biochemistry and Biophysics, 2008, 476, 186-195.	1.4	91

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37	Cocoa, Chocolate, and Cardiovascular Disease. Journal of Cardiovascular Pharmacology, 2009, 54, 483-490.	0.8	91
38	(-)-Epicatechin improves insulin sensitivity in high fat diet-fed mice. Archives of Biochemistry and Biophysics, 2016, 599, 13-21.	1.4	88
39	Procyanidin structure defines theÂextent andÂspecificity ofÂangiotensin I converting enzyme inhibition. Biochimie, 2006, 88, 359-365.	1.3	87
40	Evaluation of antioxidants, protein, and lipid oxidation products in blood from sporadic amyotrophic lateral sclerosis patients. Neurochemical Research, 1997, 22, 535-539.	1.6	80
41	Procyanidins protect Caco-2 cells from bile acid- and oxidant-induced damage. Free Radical Biology and Medicine, 2006, 41, 1247-1256.	1.3	80
42	Superoxide dismutase and glutathione peroxidase activities are increased by enalapril and captopril in mouse liver. FEBS Letters, 1995, 361, 22-24.	1.3	78
43	(â€“)â€Epicatechin reduces blood pressure and improves vasorelaxation in spontaneously hypertensive rats by NOâ€mediated mechanism. IUBMB Life, 2013, 65, 710-715.	1.5	76
44	Cocoa flavanols: effects on vascular nitric oxide and blood pressure. Journal of Clinical Biochemistry and Nutrition, 2010, 48, 63-67.	0.6	75
45	Dietary (â€“)-epicatechin mitigates oxidative stress, NO metabolism alterations, and inflammation in renal cortex from fructose-fed rats. Free Radical Biology and Medicine, 2016, 90, 35-46.	1.3	74
46	Dose-Dependent Increase of Oxidative Damage in the Testes of Rats Subjected to Acute Iron Overload. Archives of Biochemistry and Biophysics, 1999, 372, 37-43.	1.4	70
47	LPS-induced renal inflammation is prevented by (â^')â€epicatechin in rats. Redox Biology, 2017, 11, 342-349.	3.9	66
48	Dimeric procyanidins are inhibitors of NF-ÎºBâ€“DNA binding. Biochemical Pharmacology, 2009, 78, 1252-1262.	2.0	65
49	Relationship between oxidative stress, lipid peroxidation, and ultrastructural damage in patients with coronary artery disease undergoing cardioplegic arrest/reperfusion. Cardiovascular Research, 2007, 73, 710-719.	1.8	64
50	Higher levels of antioxidant defenses in enalapril-treated versus nonâ€“enalapril-treated hemodialysis patients. American Journal of Kidney Diseases, 1999, 34, 445-455.	2.1	62
51	Large procyanidins prevent bile-acid-induced oxidant production and membrane-initiated ERK1/2, p38, and Akt activation in Caco-2 cells. Free Radical Biology and Medicine, 2012, 52, 151-159.	1.3	62
52	Plant bioactives and redox signaling: (â€“)-Epicatechin as a paradigm. Molecular Aspects of Medicine, 2018, 61, 31-40.	2.7	62
53	Anthocyanins inhibit tumor necrosis alpha-induced loss of Caco-2 cell barrier integrity. Food and Function, 2017, 8, 2915-2923.	2.1	60
54	5-Aminolevulinic acid mediates the in vivo and in vitro formation of 8-hydroxy-2'-deoxyguanosine in DNA. Carcinogenesis, 1994, 15, 2241-2244.	1.3	56

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55	Blood pressure-lowering effect of dietary (â˜)-epicatechin administration in L-NAME-treated rats is associated with restored nitric oxide levels. Free Radical Biology and Medicine, 2012, 53, 1894-1902.	1.3	56
56	Interactions of flavan-3-ols and procyanidins with membranes: mechanisms and the physiological relevance. Food and Function, 2015, 6, 32-40.	2.1	55
57	Oxidative stress in testes of rats subjected to chronic iron intoxication and Î±-tocopherol supplementation. Toxicology, 1999, 132, 179-186.	2.0	51
58	Concerted action of the reninâ€“angiotensin system, mitochondria, and antioxidant defenses in aging. Molecular Aspects of Medicine, 2004, 25, 27-36.	2.7	48
59	Chemiluminescence of the in situ rat liver after acute ethanol intoxicationâ€”effect of (+)-cyanidanol-3. Biochemical Pharmacology, 1983, 32, 2822-2825.	2.0	45
60	(â˜)-Epicatechin reduces blood pressure increase in high-fructose-fed rats: effects on the determinants of nitric oxide bioavailability. Journal of Nutritional Biochemistry, 2015, 26, 745-751.	1.9	44
61	Damage to protein synthesis concurrent with lipid peroxidation in rat liver slices: Effect of halogenated compounds, peroxides, and vitamin E. Archives of Biochemistry and Biophysics, 1989, 270, 84-91.	1.4	43
62	Exploring the benefits and challenges of establishing a DRI-like process for bioactives. European Journal of Nutrition, 2014, 53 Suppl 1, 1-9.	1.8	43
63	Increased liver chemiluminescence in tumor-bearing mice. Journal of Free Radicals in Biology & Medicine, 1985, 1, 131-138.	2.1	42
64	(â€“)-Epicatechin in the control of glucose homeostasis: Involvement of redox-regulated mechanisms. Free Radical Biology and Medicine, 2019, 130, 478-488.	1.3	40
65	Membrane effects of Cocoa Procyanidins in Liposomes and Jurkat T Cells. Biological Research, 2004, 37, 293-300.	1.5	34
66	Cocoa, diabetes, and hypertension: should we eat more chocolate?. American Journal of Clinical Nutrition, 2005, 81, 541-542.	2.2	32
67	Ellagic acid protects Caco-2 cell monolayers against inflammation-induced permeabilization. Free Radical Biology and Medicine, 2020, 152, 776-786.	1.3	30
68	Influence of flavan-3-ols and procyanidins on UVC-mediated formation of 8-oxo-7,8-dihydro-2â€²-deoxyguanosine in isolated DNA. Archives of Biochemistry and Biophysics, 2002, 406, 203-208.	1.4	28
69	Comparative Study on the Antioxidant Capacity of Wines and Other Plantâ€Derived Beverages. Annals of the New York Academy of Sciences, 2002, 957, 279-283.	1.8	28
70	The regular supplementation with an antioxidant mixture decreases oxidative stress in healthy humans. Gender effect. Clinica Chimica Acta, 2004, 349, 97-103.	0.5	28
71	Application of stimulation modeling to lipid peroxidation processes. Free Radical Biology and Medicine, 1989, 7, 361-368.	1.3	27
72	(â˜)-Epicatechin prevents alterations in the metabolism of superoxide anion and nitric oxide in the hearts of<scp>l</scp>-NAME-treated rats. Food and Function, 2015, 6, 154-160.	2.1	25

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73	Dietary (â˜)-epicatechin affects NF-Î¹B activation and NADPH oxidases in the kidney cortex of high-fructose-fed rats. Food and Function, 2019, 10, 26-32.	2.1	25
74	Modifications in nitric oxide and superoxide anion metabolism induced by fructose overload in rat heart are prevented by (â˜)-epicatechin. Food and Function, 2016, 7, 1876-1883.	2.1	24
75	(-)-Epicatechin and related procyanidins modulate intracellular calcium and prevent oxidation in Jurkat T cells. Free Radical Research, 2008, 42, 864-872.	1.5	23
76	A randomized placebo-controlled cross-over study on the effects of anthocyanins on inflammatory and metabolic responses to a high-fat meal in healthy subjects. Redox Biology, 2022, 51, 102273.	3.9	23
77	Effects of quercetin on heart nitric oxide metabolism in l-NAME treated rats. Archives of Biochemistry and Biophysics, 2018, 647, 47-53.	1.4	22
78	Linking biomarkers of oxidative stress and disease with flavonoid consumption: From experimental models to humans. Redox Biology, 2021, 42, 101914.	3.9	21
79	Lability of red blood cell membranes to lipid peroxidation: Application to humans fed polyunsaturated lipids. Lipids, 1990, 25, 111-114.	0.7	20
80	Ascorbate protects (+)-catechin from oxidation both in a pure chemical system and human plasma. Biological Research, 2000, 33, 151-7.	1.5	17
81	Ultrastructural evidence of increased tolerance of hibernating myocardium to cardioplegic ischemia-reperfusion injury. Journal of the American College of Cardiology, 2004, 43, 2329-2336.	1.2	15
82	Supplementation with cyanidin and delphinidin mitigates high fat diet-induced endotoxemia and associated liver inflammation in mice. Food and Function, 2022, 13, 781-794.	2.1	13
83	Polyphenols and Red Wine as Peroxynitrite Scavengers. Annals of the New York Academy of Sciences, 2002, 957, 271-273.	1.8	12
84	(â˜)-Epicatechin administration protects kidneys against modifications induced by short-terml-NAME treatment in rats. Food and Function, 2020, 11, 318-327.	2.1	12
85	Tissue damage in acute myocardial infarction: selective protection by vitamin E. Free Radical Biology and Medicine, 1999, 26, 1587-1590.	1.3	11
86	Cardiac mitochondrial function and tissue remodelling are improved by a non-antihypertensive dose of enalapril in spontaneously hypertensive rats. Free Radical Research, 2009, 43, 390-399.	1.5	11
87	Fructose increases corticosterone production in association with NADPH metabolism alterations in rat epididymal white adipose tissue. Journal of Nutritional Biochemistry, 2017, 46, 109-116.	1.9	9
88	(â€‰â˜)-Epicatechin and cardiometabolic risk factors: a focus on potential mechanisms of action. Pflugers Archiv European Journal of Physiology, 2022, 474, 99-115.	1.3	8
89	Catechins Delay Lipid Oxidation and Î±â€Tocopherol and Î²â€Carotene Depletion Following Ascorbate Depletion in Human Plasma. Proceedings of the Society for Experimental Biology and Medicine, 2000, 225, 32-38.	2.0	7
90	Content of liver and brain ubiquinol-9 and ubiquinol-10 after chronic ethanol intake in rats subjected to two levels of dietaryÎ±-tocopherol. Free Radical Research, 2000, 33, 313-319.	1.5	6

#	ARTICLE	IF	CITATIONS
91	Curcumin Mitigates TNFÎ±â€Induced Cacoâ€2 Cell Monolayer Permeabilization Through Modulation of NFâ€ºB, ERK1/2, and JNK Pathways. Molecular Nutrition and Food Research, 2022, 66, e2101033.	1.5	6
92	Assessing the Antioxidant Capacity in the Hydrophilic and Lipophilic Domains. Annals of the New York Academy of Sciences, 2002, 957, 284-287.	1.8	5
93	More Antioxidants in Cocoa. Journal of Nutrition, 2001, 131, 835.	1.3	2
94	Bioactives and their impact on human health. Molecular Aspects of Medicine, 2018, 61, 1.	2.7	2
95	(â˜)-Epicatechin protects thoracic aortic perivascular adipose tissue from whitening in high-fat fed mice. Food and Function, 2020, 11, 5944-5954.	2.1	2
96	Polyphenols and health. Food and Function, 2020, 11, 8405-8406.	2.1	0