

Daniela Giustarini

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.

111
papers

10,061
citations

47
h-index

100
g-index

118
ext. papers

10,984
ext. citations

5.7
avg, IF

5.88
L-index

#	Paper	IF	Citations
111	Protein carbonyl groups as biomarkers of oxidative stress. <i>Clinica Chimica Acta</i> , 2003 , 329, 23-38	6.2	1630
110	Biomarkers of oxidative damage in human disease. <i>Clinical Chemistry</i> , 2006 , 52, 601-23	5.5	1189
109	Protein carbonylation in human diseases. <i>Trends in Molecular Medicine</i> , 2003 , 9, 169-76	11.5	698
108	Protein S-glutathionylation: a regulatory device from bacteria to humans. <i>Trends in Biochemical Sciences</i> , 2009 , 34, 85-96	10.3	496
107	S-glutathionylation in protein redox regulation. <i>Free Radical Biology and Medicine</i> , 2007 , 43, 883-98	7.8	375
106	Proteins as biomarkers of oxidative/nitrosative stress in diseases: the contribution of redox proteomics. <i>Mass Spectrometry Reviews</i> , 2005 , 24, 55-99	11	354
105	Oxidative stress and human diseases: Origin, link, measurement, mechanisms, and biomarkers. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2009 , 46, 241-81	9.4	296
104	Molecular mechanisms and potential clinical significance of S-glutathionylation. <i>Antioxidants and Redox Signaling</i> , 2008 , 10, 445-73	8.4	245
103	S-glutathionylation: from redox regulation of protein functions to human diseases. <i>Journal of Cellular and Molecular Medicine</i> , 2004 , 8, 201-12	5.6	243
102	Blood Glutathione Disulfide: In Vivo Factor or in Vitro Artifact?. <i>Clinical Chemistry</i> , 2002 , 48, 742-753	5.5	205
101	Nitrite and nitrate measurement by Griess reagent in human plasma: evaluation of interferences and standardization. <i>Methods in Enzymology</i> , 2008 , 440, 361-80	1.7	203
100	Analysis of GSH and GSSG after derivatization with N-ethylmaleimide. <i>Nature Protocols</i> , 2013 , 8, 1660-9	18.8	183
99	Reversible S-glutathionylation of Cys 374 regulates actin filament formation by inducing structural changes in the actin molecule. <i>Free Radical Biology and Medicine</i> , 2003 , 34, 23-32	7.8	154
98	Actin carbonylation: from a simple marker of protein oxidation to relevant signs of severe functional impairment. <i>Free Radical Biology and Medicine</i> , 2001 , 31, 1075-83	7.8	132
97	Oxidized forms of glutathione in peripheral blood as biomarkers of oxidative stress. <i>Clinical Chemistry</i> , 2006 , 52, 1406-14	5.5	120
96	An improved HPLC measurement for GSH and GSSG in human blood. <i>Free Radical Biology and Medicine</i> , 2003 , 35, 1365-72	7.8	119
95	S-nitrosation versus S-glutathionylation of protein sulfhydryl groups by S-nitrosoglutathione. <i>Antioxidants and Redox Signaling</i> , 2005 , 7, 930-9	8.4	118

94	Detection of S-nitrosothiols in biological fluids: a comparison among the most widely applied methodologies. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007 , 851, 124-39	3.2	111
93	Methionine oxidation as a major cause of the functional impairment of oxidized actin. <i>Free Radical Biology and Medicine</i> , 2002 , 32, 927-37	7.8	109
92	Nitric oxide and S-nitrosothiols in human blood. <i>Clinica Chimica Acta</i> , 2003 , 330, 85-98	6.2	107
91	Role of protein -SH groups in redox homeostasis--the erythrocyte as a model system. <i>Archives of Biochemistry and Biophysics</i> , 1998 , 355, 145-52	4.1	105
90	Pharmacological profile of a novel H(2)S-releasing aspirin. <i>Free Radical Biology and Medicine</i> , 2009 , 46, 586-92	7.8	103
89	Age-related influence on thiol, disulfide, and protein-mixed disulfide levels in human plasma. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2006 , 61, 1030-8	6.4	103
88	Is ascorbate able to reduce disulfide bridges? A cautionary note. <i>Nitric Oxide - Biology and Chemistry</i> , 2008 , 19, 252-8	5	101
87	Actin S-glutathionylation: evidence against a thiol-disulphide exchange mechanism. <i>Free Radical Biology and Medicine</i> , 2003 , 35, 1185-93	7.8	96
86	Redox albuminomics: oxidized albumin in human diseases. <i>Antioxidants and Redox Signaling</i> , 2012 , 17, 1515-27	8.4	86
85	Effects of hydrogen sulfide-releasing L-DOPA derivatives on glial activation: potential for treating Parkinson disease. <i>Journal of Biological Chemistry</i> , 2010 , 285, 17318-28	5.4	80
84	Assessment of glutathione/glutathione disulphide ratio and S-glutathionylated proteins in human blood, solid tissues, and cultured cells. <i>Free Radical Biology and Medicine</i> , 2017 , 112, 360-375	7.8	77
83	Actin Cys374 as a nucleophilic target of alpha,beta-unsaturated aldehydes. <i>Free Radical Biology and Medicine</i> , 2007 , 42, 583-98	7.8	76
82	A step-by-step protocol for assaying protein carbonylation in biological samples. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016 , 1019, 178-90	3.2	72
81	S-NO-actin: S-nitrosylation kinetics and the effect on isolated vascular smooth muscle. <i>Journal of Muscle Research and Cell Motility</i> , 2000 , 21, 171-81	3.5	72
80	S-glutathionylation in human platelets by a thiol-disulfide exchange-independent mechanism. <i>Free Radical Biology and Medicine</i> , 2005 , 38, 1501-10	7.8	69
79	Pitfalls in the analysis of the physiological antioxidant glutathione (GSH) and its disulfide (GSSG) in biological samples: An elephant in the room. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016 , 1019, 21-8	3.2	68
78	Cysteinylation and homocysteinylation of plasma protein thiols during ageing of healthy human beings. <i>Journal of Cellular and Molecular Medicine</i> , 2009 , 13, 3131-40	5.6	68
77	Therapeutic potential of new hydrogen sulfide-releasing hybrids. <i>Expert Review of Clinical Pharmacology</i> , 2011 , 4, 109-21	3.8	67

76	Oxidative damage in human gingival fibroblasts exposed to cigarette smoke. <i>Free Radical Biology and Medicine</i> , 2012 , 52, 1584-96	7.8	64
75	Different metabolizing ability of thiol reactants in human and rat blood: biochemical and pharmacological implications. <i>Journal of Biological Chemistry</i> , 2001 , 276, 7004-10	5.4	62
74	Water-Soluble alpha,beta-unsaturated aldehydes of cigarette smoke induce carbonylation of human serum albumin. <i>Antioxidants and Redox Signaling</i> , 2010 , 12, 349-64	8.4	61
73	Red blood cells as a physiological source of glutathione for extracellular fluids. <i>Blood Cells, Molecules, and Diseases</i> , 2008 , 40, 174-9	2.1	58
72	A method to study kinetics of transnitrosation with nitrosoglutathione: reactions with hemoglobin and other thiols. <i>Analytical Biochemistry</i> , 1997 , 254, 215-20	3.1	57
71	Altered glutathione anti-oxidant metabolism during tumor progression in human renal-cell carcinoma. <i>International Journal of Cancer</i> , 2001 , 91, 55-9	7.5	57
70	Protein glutathionylation in erythrocytes. <i>Clinical Chemistry</i> , 2003 , 49, 327-30	5.5	55
69	The oxidation produced by hydrogen peroxide on Ca-ATP-G-actin. <i>Protein Science</i> , 2000 , 9, 1774-82	6.3	53
68	S-glutathiolation in life and death decisions of the cell. <i>Free Radical Research</i> , 2011 , 45, 3-15	4	51
67	Low molecular mass thiols, disulfides and protein mixed disulfides in rat tissues: influence of sample manipulation, oxidative stress and ageing. <i>Mechanisms of Ageing and Development</i> , 2011 , 132, 141-8	5.6	50
66	Adaptation of the Griess reaction for detection of nitrite in human plasma. <i>Free Radical Research</i> , 2004 , 38, 1235-40	4	49
65	Detection of glutathione in whole blood after stabilization with N-ethylmaleimide. <i>Analytical Biochemistry</i> , 2011 , 415, 81-3	3.1	48
64	N-Acetylcysteine ethyl ester (NACET): a novel lipophilic cell-permeable cysteine derivative with an unusual pharmacokinetic feature and remarkable antioxidant potential. <i>Biochemical Pharmacology</i> , 2012 , 84, 1522-33	6	46
63	Nitric oxide, S-nitrosothiols and hemoglobin: is methodology the key?. <i>Trends in Pharmacological Sciences</i> , 2004 , 25, 311-6	13.2	46
62	HPLC analysis of human erythrocytic glutathione forms using OPA and N-acetyl-cysteine ethyl ester: evidence for nitrite-induced GSH oxidation to GSSG. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009 , 877, 3405-17	3.2	45
61	Insulin administration: present strategies and future directions for a noninvasive (possibly more physiological) delivery. <i>Drug Design, Development and Therapy</i> , 2015 , 9, 3109-18	4.4	44
60	Modulation of thiol homeostasis induced by H ₂ S-releasing aspirin. <i>Free Radical Biology and Medicine</i> , 2010 , 48, 1263-72	7.8	44
59	A central role for intermolecular dityrosine cross-linking of fibrinogen in high molecular weight advanced oxidation protein product (AOPP) formation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015 , 1850, 1-12	4	41

58	Glutathione, glutathione disulfide, and S-glutathionylated proteins in cell cultures. <i>Free Radical Biology and Medicine</i> , 2015 , 89, 972-81	7.8	40
57	Blood glutathione disulfide: in vivo factor or in vitro artifact?. <i>Clinical Chemistry</i> , 2002 , 48, 742-53	5.5	38
56	Protein thiolation index (PTI) as a biomarker of oxidative stress. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 907-15	7.8	35
55	Physiological Levels of S -Nitrosothiols in Human Plasma. <i>Circulation Research</i> , 2001 , 89,	15.7	33
54	Pathophysiology of tobacco smoke exposure: recent insights from comparative and redox proteomics. <i>Mass Spectrometry Reviews</i> , 2014 , 33, 183-218	11	31
53	Glutathione redox potential is low and glutathionylated and cysteinylated hemoglobin levels are elevated in maintenance hemodialysis patients. <i>Translational Research</i> , 2013 , 162, 16-25	11	28
52	Membrane skeletal protein S-glutathionylation and hemolysis in human red blood cells. <i>Blood Cells, Molecules, and Diseases</i> , 2006 , 37, 180-7	2.1	27
51	Thiol oxidation and di-tyrosine formation in human plasma proteins induced by inflammatory concentrations of hypochlorous acid. <i>Journal of Proteomics</i> , 2017 , 152, 22-32	3.9	25
50	Minor thiols cysteine and cysteinylglycine regulate the competition between glutathione and protein SH groups in human platelets subjected to oxidative stress. <i>Archives of Biochemistry and Biophysics</i> , 2000 , 380, 1-10	4.1	24
49	Pharmacological targeting of glucose-6-phosphate dehydrogenase in human erythrocytes by Bay 11-7082, parthenolide and dimethyl fumarate. <i>Scientific Reports</i> , 2016 , 6, 28754	4.9	23
48	Micro-method for the determination of glutathione in human blood. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014 , 964, 191-4	3.2	22
47	Responses of thiols to an oxidant challenge: differences between blood and tissues in the rat. <i>Chemico-Biological Interactions</i> , 2001 , 134, 73-85	5	21
46	Metabolism of oxidants by blood from different mouse strains. <i>Biochemical Pharmacology</i> , 2006 , 71, 1753-64	6	20
45	Protein S-glutathionylation and platelet anti-aggregating activity of disulfiram. <i>Biochemical Pharmacology</i> , 2006 , 72, 608-15	6	20
44	SARS-CoV2 infection impairs the metabolism and redox function of cellular glutathione. <i>Redox Biology</i> , 2021 , 45, 102041	11.3	19
43	Protein carbonylation in human bronchial epithelial cells exposed to cigarette smoke extract. <i>Cell Biology and Toxicology</i> , 2019 , 35, 345-360	7.4	18
42	The role of cysteine in the regulation of blood glutathione-protein mixed disulfides in rats treated with diamide. <i>Toxicology and Applied Pharmacology</i> , 1998 , 148, 56-64	4.6	17
41	Interference of plasmatic reduced glutathione and hemolysis on glutathione disulfide levels in human blood. <i>Free Radical Research</i> , 2004 , 38, 1101-6	4	17

40	Red blood cells protect albumin from cigarette smoke-induced oxidation. <i>PLoS ONE</i> , 2012 , 7, e29930	3.7	17
39	Oxidative stress induces a reversible flux of cysteine from tissues to blood in vivo in the rat. <i>FEBS Journal</i> , 2009 , 276, 4946-58	5.7	16
38	Anethole dithiolethione lowers the homocysteine and raises the glutathione levels in solid tissues and plasma of rats: a novel non-vitamin homocysteine-lowering agent. <i>Biochemical Pharmacology</i> , 2014 , 89, 246-54	6	15
37	The age-dependent decline of the extracellular thiol-disulfide balance and its role in SARS-CoV-2 infection. <i>Redox Biology</i> , 2021 , 41, 101902	11.3	15
36	Plasma protein-bound di-tyrosines as biomarkers of oxidative stress in end stage renal disease patients on maintenance haemodialysis. <i>BBA Clinical</i> , 2017 , 7, 55-63		13
35	Immediate stabilization of human blood for delayed quantification of endogenous thiols and disulfides. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016 , 1019, 51-8	3.2	13
34	N-acetylcysteine ethyl ester as GSH enhancer in human primary endothelial cells: A comparative study with other drugs. <i>Free Radical Biology and Medicine</i> , 2018 , 126, 202-209	7.8	13
33	Dietary Intake of Proteins and Calories Is Inversely Associated With The Oxidation State of Plasma Thiols in End-Stage Renal Disease Patients. <i>Journal of Renal Nutrition</i> , 2015 , 25, 494-503	3	13
32	Antihypertensive, cardio- and neuro-protective effects of <i>Tenebrio molitor</i> (Coleoptera: Tenebrionidae) defatted larvae in spontaneously hypertensive rats. <i>PLoS ONE</i> , 2020 , 15, e0233788	3.7	12
31	Protein Carbonylation in Human Smokers and Mammalian Models of Exposure to Cigarette Smoke: Focus on Redox Proteomic Studies. <i>Antioxidants and Redox Signaling</i> , 2017 , 26, 406-426	8.4	12
30	Cellular redox potential and hemoglobin S-glutathionylation in human and rat erythrocytes: A comparative study. <i>Blood Cells, Molecules, and Diseases</i> , 2010 , 44, 133-9	2.1	12
29	No evidence of DNA damage by co-exposure to extremely low frequency magnetic fields and aluminum on neuroblastoma cell lines. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2017 , 823, 11-21	3	11
28	Cigarette smoke induces alterations in the drug-binding properties of human serum albumin. <i>Blood Cells, Molecules, and Diseases</i> , 2014 , 52, 166-74	2.1	11
27	Interactive alkaptonuria database: investigating clinical data to improve patient care in a rare disease. <i>FASEB Journal</i> , 2019 , 33, 12696-12703	0.9	10
26	Glutathione S-transferase P influences the Nrf2-dependent response of cellular thiols to seleno-compounds. <i>Cell Biology and Toxicology</i> , 2020 , 36, 379-386	7.4	10
25	-Nitroso--acetyl-L-cysteine ethyl ester (SNACET) and -acetyl-L-cysteine ethyl ester (NACET)-Cysteine-based drug candidates with unique pharmacological profiles for oral use as NO, HS and GSH suppliers and as antioxidants: Results and overview. <i>Journal of Pharmaceutical Analysis</i> , 2018 , 8, 1-9	14	10
24	Study of the effect of thiols on the vasodilatory potency of S-nitrosothiols by using a modified aortic ring assay. <i>Toxicology and Applied Pharmacology</i> , 2011 , 256, 95-102	4.6	10
23	Is there an answer?. <i>IUBMB Life</i> , 2005 , 57, 189-92	4.7	10

22	Membrane Skeletal Protein S-Glutathionylation in Human Red Blood Cells as Index of Oxidative Stress. <i>Chemical Research in Toxicology</i> , 2019 , 32, 1096-1102	4	9
21	Differential thiol status in blood of different mouse strains exposed to cigarette smoke. <i>Free Radical Research</i> , 2009 , 43, 538-45	4	9
20	Homogentisic acid affects human osteoblastic functionality by oxidative stress and alteration of the Wnt/ β -catenin signaling pathway. <i>Journal of Cellular Physiology</i> , 2020 , 235, 6808-6816	7	9
19	A seleno-hormetine protects bone marrow hematopoietic cells against ionizing radiation-induced toxicities. <i>PLoS ONE</i> , 2019 , 14, e0205626	3.7	8
18	The specific PKC- β inhibitor chelerythrine blunts costunolide-induced eryptosis. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2020 , 25, 674-685	5.4	8
17	Subclinical ochronosis features in alkaptonuria: a cross-sectional study. <i>BMJ Innovations</i> , 2019 , 5, 82-91	1.8	8
16	Carboplatin-induced alteration of the thiol homeostasis in the isolated perfused rat kidney. <i>Archives of Biochemistry and Biophysics</i> , 2009 , 488, 83-9	4.1	7
15	The new HS-releasing compound ACS94 exerts protective effects through the modulation of thiol homoeostasis. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018 , 33, 1392-1404	5.6	7
14	Cigarette smoke and glutathione: Focus on in vitro cell models. <i>Toxicology in Vitro</i> , 2020 , 65, 104818	3.6	6
13	Evidence against a role of ketone bodies in the generation of oxidative stress in human erythrocytes by the application of reliable methods for thiol redox form detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009 , 877, 3467-74	3.2	6
12	Determination of protein thiolation index (PTI) as a biomarker of oxidative stress in human serum. <i>Analytical Biochemistry</i> , 2017 , 538, 38-41	3.1	5
11	Plasma Protein Carbonyls as Biomarkers of Oxidative Stress in Chronic Kidney Disease, Dialysis, and Transplantation. <i>Oxidative Medicine and Cellular Longevity</i> , 2020 , 2020, 2975256	6.7	5
10	Plasma S-nitrosothiols and chronic renal failure. <i>American Journal of Physiology - Renal Physiology</i> , 2004 , 287, F1294; author reply F1294-5	4.3	5
9	The pro-oxidant role of protein SH groups of hemoglobin in rat erythrocytes exposed to menadione. <i>Chemico-Biological Interactions</i> , 2002 , 139, 97-114	5	4
8	Anethole Dithiolethione Increases Glutathione in Kidney by Inhibiting γ -Glutamyltranspeptidase: Biochemical Interpretation and Pharmacological Consequences. <i>Oxidative Medicine and Cellular Longevity</i> , 2020 , 2020, 3562972	6.7	4
7	Superior Properties of N-Acetylcysteine Ethyl Ester over N-Acetyl Cysteine to Prevent Retinal Pigment Epithelial Cells Oxidative Damage. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
6	HPLC determination of novel dithiolethione containing drugs and its application for in vivo studies in rats. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010 , 878, 340-6	3.2	2
5	Proteins as Sensitive Biomarkers of Human Conditions Associated with Oxidative Stress 2006 , 485-525		2

4	Protein thiolation index in microvolumes of plasma. <i>Analytical Biochemistry</i> , 2021 , 618, 114125	3.1	1
3	The effects of 3 weeks of oral glutathione supplementation on whole body insulin sensitivity in obese males with and without type 2 diabetes: a randomized trial. <i>Applied Physiology, Nutrition and Metabolism</i> , 2021 , 46, 1133-1142	3	1
2	Measurement of S-glutathionylated proteins by HPLC. <i>Amino Acids</i> , 2021 , 1	3.5	0
1	Homogentisic acid induces autophagy alterations leading to chondroptosis in human chondrocytes: Implications in Alkaptonuria.. <i>Archives of Biochemistry and Biophysics</i> , 2022 , 717, 109137	4.1	