

# Daniela Giustarini

## List of Publications by Year in descending order

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115  
papers

11,988  
citations

36271

51  
h-index

25770

108  
g-index

118  
all docs

118  
docs citations

118  
times ranked

15254  
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein carbonyl groups as biomarkers of oxidative stress. <i>Clinica Chimica Acta</i> , 2003, 329, 23-38.	0.5	1,888
2	Biomarkers of Oxidative Damage in Human Disease. <i>Clinical Chemistry</i> , 2006, 52, 601-623.	1.5	1,395
3	Protein carbonylation in human diseases. <i>Trends in Molecular Medicine</i> , 2003, 9, 169-176.	3.5	813
4	Protein S-glutathionylation: a regulatory device from bacteria to humans. <i>Trends in Biochemical Sciences</i> , 2009, 34, 85-96.	3.7	557
5	S-glutathionylation in protein redox regulation. <i>Free Radical Biology and Medicine</i> , 2007, 43, 883-898.	1.3	422
6	Proteins as biomarkers of oxidative/nitrosative stress in diseases: The contribution of redox proteomics. <i>Mass Spectrometry Reviews</i> , 2005, 24, 55-99.	2.8	392
7	Oxidative stress and human diseases: Origin, link, measurement, mechanisms, and biomarkers. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2009, 46, 241-281.	2.7	348
8	Molecular Mechanisms and Potential Clinical Significance of S-Glutathionylation. <i>Antioxidants and Redox Signaling</i> , 2008, 10, 445-474.	2.5	275
9	Nitrite and Nitrate Measurement by Griess Reagent in Human Plasma: Evaluation of Interferences and Standardization. <i>Methods in Enzymology</i> , 2008, 440, 361-380.	0.4	272
10	S-Glutathionylation: from redox regulation of protein functions to human diseases. <i>Journal of Cellular and Molecular Medicine</i> , 2004, 8, 201-212.	1.6	265
11	Analysis of GSH and GSSG after derivatization with N-ethylmaleimide. <i>Nature Protocols</i> , 2013, 8, 1660-1669.	5.5	257
12	Blood Glutathione Disulfide: In Vivo Factor or in Vitro Artifact?. <i>Clinical Chemistry</i> , 2002, 48, 742-753.	1.5	227
13	Reversible S-glutathionylation of Cys374 regulates actin filament formation by inducing structural changes in the actin molecule. <i>Free Radical Biology and Medicine</i> , 2003, 34, 23-32.	1.3	178
14	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, 1075-1083.	1.3	148
15	An improved HPLC measurement for GSH and GSSG in human blood. <i>Free Radical Biology and Medicine</i> , 2003, 35, 1365-1372.	1.3	140
16	S-Nitrosation versus S-Glutathionylation of Protein Sulfhydryl Groups by S-Nitrosoglutathione. <i>Antioxidants and Redox Signaling</i> , 2005, 7, 930-939.	2.5	127
17	Methionine oxidation as a major cause of the functional impairment of oxidized actin. <i>Free Radical Biology and Medicine</i> , 2002, 32, 927-937.	1.3	126
18	Oxidized Forms of Glutathione in Peripheral Blood as Biomarkers of Oxidative Stress. <i>Clinical Chemistry</i> , 2006, 52, 1406-1414.	1.5	125

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19	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, 1030-1038.	1.7	122
20	Pharmacological profile of a novel H <sub>2</sub> S-releasing aspirin. <i>Free Radical Biology and Medicine</i> , 2009, 46, 586-592.	1.3	121
21	Redox Albuminomics: Oxidized Albumin in Human Diseases. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 1515-1527.	2.5	121
22	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, 124-139.	1.2	120
23	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, 178-190.	1.2	119
24	Nitric oxide and S-nitrosothiols in human blood. <i>Clinica Chimica Acta</i> , 2003, 330, 85-98.	0.5	117
25	Is ascorbate able to reduce disulfide bridges? A cautionary note. <i>Nitric Oxide - Biology and Chemistry</i> , 2008, 19, 252-258.	1.2	112
26	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.	1.3	111
27	Role of Protein -SH Groups in Redox Homeostasisâ€” The Erythrocyte as a Model System. <i>Archives of Biochemistry and Biophysics</i> , 1998, 355, 145-152.	1.4	109
28	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, 21-28.	1.2	107
29	Actin S-glutathionylation: evidence against a thiol-disulphide exchange mechanism. <i>Free Radical Biology and Medicine</i> , 2003, 35, 1185-1193.	1.3	104
30	Effects of Hydrogen Sulfide-releasing l-DOPA Derivatives on Glial Activation. <i>Journal of Biological Chemistry</i> , 2010, 285, 17318-17328.	1.6	99
31	Cysteinylation and homocysteinylation of plasma protein thiols during ageing of healthy human beings. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 3131-3140.	1.6	89
32	Actin Cys374 as a nucleophilic target of $\alpha,\beta$ -unsaturated aldehydes. <i>Free Radical Biology and Medicine</i> , 2007, 42, 583-598.	1.3	82
33	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, 171-181.	0.9	81
34	Different Metabolizing Ability of Thiol Reactants in Human and Rat Blood. <i>Journal of Biological Chemistry</i> , 2001, 276, 7004-7010.	1.6	76
35	S-glutathionylation in human platelets by a thiolâ€“disulfide exchange-independent mechanism. <i>Free Radical Biology and Medicine</i> , 2005, 38, 1501-1510.	1.3	74
36	Therapeutic potential of new hydrogen sulfide-releasing hybrids. <i>Expert Review of Clinical Pharmacology</i> , 2011, 4, 109-121.	1.3	73

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37	Oxidative damage in human gingival fibroblasts exposed to cigarette smoke. <i>Free Radical Biology and Medicine</i> , 2012, 52, 1584-1596.	1.3	73
38	Red blood cells as a physiological source of glutathione for extracellular fluids. <i>Blood Cells, Molecules, and Diseases</i> , 2008, 40, 174-179.	0.6	70
39	Water-Soluble $\alpha,\beta$ -Unsaturated Aldehydes of Cigarette Smoke Induce Carbonylation of Human Serum Albumin. <i>Antioxidants and Redox Signaling</i> , 2010, 12, 349-364.	2.5	68
40	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, 1522-1533.	2.0	68
41	Altered glutathione anti-oxidant metabolism during tumor progression in human renal-cell carcinoma. <i>International Journal of Cancer</i> , 2001, 91, 55-59.	2.3	61
42	Adaptation of the Griess Reaction for Detection of Nitrite in Human Plasma. <i>Free Radical Research</i> , 2004, 38, 1235-1240.	1.5	60
43	Insulin administration: present strategies and future directions for a noninvasive (possibly) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	2.0	60
44	A Method to Study Kinetics of Transnitrosation with Nitrosoglutathione: Reactions with Hemoglobin and Other Thiols. <i>Analytical Biochemistry</i> , 1997, 254, 215-220.	1.1	59
45	Protein Glutathionylation in Erythrocytes. <i>Clinical Chemistry</i> , 2003, 49, 327-330.	1.5	59
46	Detection of glutathione in whole blood after stabilization with N-ethylmaleimide. <i>Analytical Biochemistry</i> , 2011, 415, 81-83.	1.1	59
47	Glutathione, glutathione disulfide, and S-glutathionylated proteins in cell cultures. <i>Free Radical Biology and Medicine</i> , 2015, 89, 972-981.	1.3	59
48	The oxidation produced by hydrogen peroxide on Ca <sup>2+</sup> -ATPase <sup>Ca</sup> -actin. <i>Protein Science</i> , 2000, 9, 1774-1782.	3.1	58
49	S-Glutathiolation in life and death decisions of the cell. <i>Free Radical Research</i> , 2011, 45, 3-15.	1.5	58
50	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, 141-148.	2.2	58
51	SARS-CoV2 infection impairs the metabolism and redox function of cellular glutathione. <i>Redox Biology</i> , 2021, 45, 102041.	3.9	58
52	Blood glutathione disulfide: in vivo factor or in vitro artifact?. <i>Clinical Chemistry</i> , 2002, 48, 742-53.	1.5	53
53	Nitric oxide, S-nitrosothiols and hemoglobin: is methodology the key?. <i>Trends in Pharmacological Sciences</i> , 2004, 25, 311-316.	4.0	49
54	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.	1.1	48

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55	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, 3405-3417.	1.2	47
56	Modulation of thiol homeostasis induced by H <sub>2</sub> S-releasing aspirin. <i>Free Radical Biology and Medicine</i> , 2010, 48, 1263-1272.	1.3	47
57	Protein thiolation index (PTI) as a biomarker of oxidative stress. <i>Free Radical Biology and Medicine</i> , 2012, 53, 907-915.	1.3	40
58	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.	2.2	39
59	Pathophysiology of tobacco smoke exposure: Recent insights from comparative and redox proteomics. <i>Mass Spectrometry Reviews</i> , 2014, 33, 183-218.	2.8	39
60	Physiological Levels of S-Nitrosothiols in Human Plasma. <i>Circulation Research</i> , 2001, 89, .	2.0	38
61	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, 191-194.	1.2	36
62	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.	1.2	34
63	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.	1.6	33
64	Membrane skeletal protein S-glutathionylation and hemolysis in human red blood cells. <i>Blood Cells, Molecules, and Diseases</i> , 2006, 37, 180-187.	0.6	30
65	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.	3.9	30
66	Protein carbonylation in human bronchial epithelial cells exposed to cigarette smoke extract. <i>Cell Biology and Toxicology</i> , 2019, 35, 345-360.	2.4	26
67	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.	1.4	25
68	S-Nitroso-N-acetyl-L-cysteine ethyl ester (SNACET) and N-acetyl-L-cysteine ethyl ester (NACET) as Cysteine-based drug candidates with unique pharmacological profiles for oral use as NO, H <sub>2</sub> S and GSH suppliers and as antioxidants: Results and overview. <i>Journal of Pharmaceutical Analysis</i> , 2018, 8, 1-9.	2.4	24
69	Protein S-glutathionylation and platelet anti-aggregating activity of disulfiram. <i>Biochemical Pharmacology</i> , 2006, 72, 608-615.	2.0	22
70	Red Blood Cells Protect Albumin from Cigarette Smoke-Induced Oxidation. <i>PLoS ONE</i> , 2012, 7, e29930.	1.1	22
71	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.	1.3	21
72	Responses of thiols to an oxidant challenge: differences between blood and tissues in the rat. <i>Chemico-Biological Interactions</i> , 2001, 134, 73-85.	1.7	21

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73	Metabolism of oxidants by blood from different mouse strains. <i>Biochemical Pharmacology</i> , 2006, 71, 1753-1764.	2.0	20
74	Oxidative stress induces a reversible flux of cysteine from tissues to blood <i>in vivo</i> in the rat. <i>FEBS Journal</i> , 2009, 276, 4946-4958.	2.2	20
75	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, 51-58.	1.2	20
76	Antihypertensive, cardio- and neuro-protective effects of <i>Tenebrio molitor</i> (Coleoptera: Tenebrionidae) in a rat model of metabolic syndrome. <i>Journal of Inflammation</i> , 2019, 2019, 1-11.	1.1	20
77	Interference of Plasmatic Reduced Glutathione and Hemolysis on Glutathione Disulfide Levels in Human Blood. <i>Free Radical Research</i> , 2004, 38, 1101-1106.	1.5	19
78	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.	1.3	19
79	Cellular redox potential and hemoglobin S-glutathionylation in human and rat erythrocytes: A comparative study. <i>Blood Cells, Molecules, and Diseases</i> , 2010, 44, 133-139.	0.6	18
80	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, 246-254.	2.0	18
81	Interactive alkaptosuria database: investigating clinical data to improve patient care in a rare disease. <i>FASEB Journal</i> , 2019, 33, 12696-12703.	0.2	18
82	Melatonin modulates Nrf2 activity to protect porcine prepubertal Sertoli cells from the abnormal H <sub>2</sub> O <sub>2</sub> generation and reductive stress effects of cadmium. <i>Journal of Pineal Research</i> , 2022, 73, .	3.4	18
83	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.	2.4	17
84	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.		16
85	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.	4.1	16
86	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.	1.7	16
87	The specific PKC $\delta$ inhibitor chelerythrine blunts costunolide-induced eryptosis. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2020, 25, 674-685.	2.2	16
88	Nitric Oxide-Related Oxidative Stress and Redox Status in Health and Disease. <i>Oxidative Medicine and Cellular Longevity</i> , 2014, 2014, 1-3.	1.9	15
89	Plasma Protein Carbonyls as Biomarkers of Oxidative Stress in Chronic Kidney Disease, Dialysis, and Transplantation. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-20.	1.9	15
90	Subclinical ochronosis features in alkaptosuria: a cross-sectional study. <i>BMJ Innovations</i> , 2019, 5, 82-91.	1.0	15

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91	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.	0.9	14
92	How Aging and Oxidative Stress Influence the Cytopathic and Inflammatory Effects of SARS-CoV-2 Infection: The Role of Cellular Glutathione and Cysteine Metabolism. <i>Antioxidants</i> , 2022, 11, 1366.	2.2	14
93	Cigarette smoke induces alterations in the drug-binding properties of human serum albumin. <i>Blood Cells, Molecules, and Diseases</i> , 2014, 52, 166-174.	0.6	13
94	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.	0.9	13
95	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.	2.5	13
96	A seleno-hormetine protects bone marrow hematopoietic cells against ionizing radiation-induced toxicities. <i>PLoS ONE</i> , 2019, 14, e0205626.	1.1	13
97	Homogentisic acid affects human osteoblastic functionality by oxidative stress and alteration of the Wnt/ $\beta$ -catenin signaling pathway. <i>Journal of Cellular Physiology</i> , 2020, 235, 6808-6816.	2.0	13
98	Is There an Answer?. <i>IUBMB Life</i> , 2005, 57, 189-192.	1.5	12
99	Cigarette smoke and glutathione: Focus on in vitro cell models. <i>Toxicology in Vitro</i> , 2020, 65, 104818.	1.1	12
100	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.	1.3	11
101	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, 600.	1.8	11
102	Differential thiol status in blood of different mouse strains exposed to cigarette smoke. <i>Free Radical Research</i> , 2009, 43, 538-545.	1.5	10
103	Determination of protein thiolation index (PTI) as a biomarker of oxidative stress in human serum. <i>Analytical Biochemistry</i> , 2017, 538, 38-41.	1.1	10
104	The new H <sub>2</sub> S-releasing compound ACS94 exerts protective effects through the modulation of thiol homeostasis. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 1392-1404.	2.5	10
105	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, 3467-3474.	1.2	8
106	Carboplatin-induced alteration of the thiol homeostasis in the isolated perfused rat kidney. <i>Archives of Biochemistry and Biophysics</i> , 2009, 488, 83-89.	1.4	8
107	Anethole Dithiolethione Increases Glutathione in Kidney by Inhibiting $\gamma$ -Glutamyltranspeptidase: Biochemical Interpretation and Pharmacological Consequences. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-13.	1.9	7
108	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.	1.7	5

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109	Plasma S-nitrosothiols and chronic renal failure. American Journal of Physiology - Renal Physiology, 2004, 287, F1294-F1295.	1.3	5
110	Measurement of S-glutathionylated proteins by HPLC. Amino Acids, 2022, 54, 675-686.	1.2	5
111	Blood Thiol Redox State in Chronic Kidney Disease. International Journal of Molecular Sciences, 2022, 23, 2853.	1.8	5
112	Proteins as Sensitive Biomarkers of Human Conditions Associated with Oxidative Stress. , 2006, , 485-525.		3
113	HPLC determination of novel dithiolethione containing drugs and its application for in vivo studies in rats. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2010, 878, 340-346.	1.2	3
114	Protein thiolation index in microvolumes of plasma. Analytical Biochemistry, 2021, 618, 114125.	1.1	3
115	Homogentisic acid induces autophagy alterations leading to chondroptosis in human chondrocytes: Implications in Alkaptonuria. Archives of Biochemistry and Biophysics, 2022, 717, 109137.	1.4	3