Aldo Milzani

List of Publications by Year in descending order

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		50244	30894
103	11,565	46	102
papers	citations	h-index	g-index

108	108	108	15307
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Protein carbonyl groups as biomarkers of oxidative stress. Clinica Chimica Acta, 2003, 329, 23-38.	0.5	1,888
2	Biomarkers of Oxidative Damage in Human Disease. Clinical Chemistry, 2006, 52, 601-623.	1.5	1,395
3	Protein carbonylation in human diseases. Trends in Molecular Medicine, 2003, 9, 169-176.	3.5	813
4	Protein carbonylation, cellular dysfunction, and disease progression. Journal of Cellular and Molecular Medicine, 2006, 10, 389-406.	1.6	691
5	Protein S-glutathionylation: a regulatory device from bacteria to humans. Trends in Biochemical Sciences, 2009, 34, 85-96.	3.7	557
6	S-glutathionylation in protein redox regulation. Free Radical Biology and Medicine, 2007, 43, 883-898.	1.3	422
7	Proteins as biomarkers of oxidative/nitrosative stress in diseases: The contribution of redox proteomics. Mass Spectrometry Reviews, 2005, 24, 55-99.	2.8	392
8	The actin cytoskeleton response to oxidants: from small heat shock protein phosphorylation to changes in the redox state of actin itself. Free Radical Biology and Medicine, 2001, 31, 1624-1632.	1.3	353
9	Molecular Mechanisms and Potential Clinical Significance ofS-Glutathionylation. Antioxidants and Redox Signaling, 2008, 10, 445-474.	2.5	275
10	Nitrite and Nitrate Measurement by Griess Reagent in Human Plasma: Evaluation of Interferences and Standardization. Methods in Enzymology, 2008, 440, 361-380.	0.4	272
11	Analysis of GSH and GSSG after derivatization with N-ethylmaleimide. Nature Protocols, 2013, 8, 1660-1669.	5.5	257
12	Intervention strategies to inhibit protein carbonylation by lipoxidation-derived reactive carbonyls. Medicinal Research Reviews, 2007, 27, 817-868.	5.0	256
13	Blood Glutathione Disulfide: In Vivo Factor or in Vitro Artifact?. Clinical Chemistry, 2002, 48, 742-753.	1.5	227
14	An improved HPLC measurement for GSH and GSSG in human blood. Free Radical Biology and Medicine, 2003, 35, 1365-1372.	1.3	140
15	S-Nitrosation versus S-Glutathionylation of Protein Sulfhydryl Groups by S-Nitrosoglutathione. Antioxidants and Redox Signaling, 2005, 7, 930-939.	2.5	127
16	Oxidized Forms of Glutathione in Peripheral Blood as Biomarkers of Oxidative Stress. Clinical Chemistry, 2006, 52, 1406-1414.	1.5	125
17	Age-Related Influence on Thiol, Disulfide, and Protein-Mixed Disulfide Levels in Human Plasma. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2006, 61, 1030-1038.	1.7	122
18	Redox Albuminomics: Oxidized Albumin in Human Diseases. Antioxidants and Redox Signaling, 2012, 17, 1515-1527.	2.5	121

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19	Detection of S-nitrosothiols in biological fluids: A comparison among the most widely applied methodologies. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 851, 124-139.	1.2	120
20	A step-by-step protocol for assaying protein carbonylation in biological samples. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1019, 178-190.	1.2	119
21	Nitric oxide and S-nitrosothiols in human blood. Clinica Chimica Acta, 2003, 330, 85-98.	0.5	117
22	Is ascorbate able to reduce disulfide bridges? A cautionary note. Nitric Oxide - Biology and Chemistry, 2008, 19, 252-258.	1.2	112
23	Assessment of glutathione/glutathione disulphide ratio and S-glutathionylated proteins in human blood, solid tissues, and cultured cells. Free Radical Biology and Medicine, 2017, 112, 360-375.	1.3	111
24	Pitfalls in the analysis of the physiological antioxidant glutathione (GSH) and its disulfide (GSSG) in biological samples: An elephant in the room. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1019, 21-28.	1.2	107
25	Actin S-glutathionylation: evidence against a thiol-disulphide exchange mechanism. Free Radical Biology and Medicine, 2003, 35, 1185-1193.	1.3	104
26	Early cytotoxic effects of ochratoxin A in rat liver: A morphological, biochemical and molecular study. Toxicology, 2006, 225, 214-224.	2.0	85
27	Actin Cys374 as a nucleophilic target of Î±,Î²-unsaturated aldehydes. Free Radical Biology and Medicine, 2007, 42, 583-598.	1.3	82
28	Lipoxidation-Derived Reactive Carbonyl Species as Potential Drug Targets in Preventing Protein Carbonylation and Related Cellular Dysfunction. ChemMedChem, 2006, 1, 1045-1058.	1.6	78
29	Different Metabolizing Ability of Thiol Reactants in Human and Rat Blood. Journal of Biological Chemistry, 2001, 276, 7004-7010.	1.6	76
30	Protein carbonylation: 2,4-dinitrophenylhydrazine reacts with both aldehydes/ketones and sulfenic acids. Free Radical Biology and Medicine, 2009, 46, 1411-1419.	1.3	76
31	S-glutathionylation in human platelets by a thiolâ€“disulfide exchange-independent mechanism. Free Radical Biology and Medicine, 2005, 38, 1501-1510.	1.3	74
32	Oxidative damage in human gingival fibroblasts exposed to cigarette smoke. Free Radical Biology and Medicine, 2012, 52, 1584-1596.	1.3	73
33	Prolonged Oxidative Stress on Actin. Archives of Biochemistry and Biophysics, 1997, 339, 267-274.	1.4	71
34	Red blood cells as a physiological source of glutathione for extracellular fluids. Blood Cells, Molecules, and Diseases, 2008, 40, 174-179.	0.6	70
35	Water-Soluble Î±,Î²-Unsaturated Aldehydes of Cigarette Smoke Induce Carbonylation of Human Serum Albumin. Antioxidants and Redox Signaling, 2010, 12, 349-364.	2.5	68
36	N-Acetylcysteine ethyl ester (NACET): A novel lipophilic cell-permeable cysteine derivative with an unusual pharmacokinetic feature and remarkable antioxidant potential. Biochemical Pharmacology, 2012, 84, 1522-1533.	2.0	68

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37	Adaptation of the Griess Reaction for Detection of Nitrite in Human Plasma. Free Radical Research, 2004, 38, 1235-1240.	1.5	60
38	Thetert-Butyl Hydroperoxide-Induced Oxidation of Actin Cys-374 Is Coupled with Structural Changes in Distant Regions of the Proteinâ€. Biochemistry, 1999, 38, 12471-12480.	1.2	59
39	Protein Glutathionylation in Erythrocytes. Clinical Chemistry, 2003, 49, 327-330.	1.5	59
40	Detection of glutathione in whole blood after stabilization with N-ethylmaleimide. Analytical Biochemistry, 2011, 415, 81-83.	1.1	59
41	Glutathione, glutathione disulfide, and S-glutathionylated proteins in cell cultures. Free Radical Biology and Medicine, 2015, 89, 972-981.	1.3	59
42	The oxidation produced by hydrogen peroxide on Caâ€ATPâ€Câ€actin. Protein Science, 2000, 9, 1774-1782.	3.1	58
43	S-Glutathiolation in life and death decisions of the cell. Free Radical Research, 2011, 45, 3-15.	1.5	58
44	Low molecular mass thiols, disulfides and protein mixed disulfides in rat tissues: Influence of sample manipulation, oxidative stress and ageing. Mechanisms of Ageing and Development, 2011, 132, 141-148.	2.2	58
45	Blood glutathione disulfide: in vivo factor or in vitro artifact?. Clinical Chemistry, 2002, 48, 742-53.	1.5	53
46	Nitric oxide, S-nitrosothiols and hemoglobin: is methodology the key?. Trends in Pharmacological Sciences, 2004, 25, 311-316.	4.0	49
47	The potential of resveratrol against human gliomas. Anti-Cancer Drugs, 2010, 21, 140-150.	0.7	49
48	A central role for intermolecular dityrosine cross-linking of fibrinogen in high molecular weight advanced oxidation protein product (AOPP) formation. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 1-12.	1.1	48
49	Protein thiolation index (PTI) as a biomarker of oxidative stress. Free Radical Biology and Medicine, 2012, 53, 907-915.	1.3	40
50	Pathophysiology of tobacco smoke exposure: Recent insights from comparative and redox proteomics. Mass Spectrometry Reviews, 2014, 33, 183-218.	2.8	39
51	Physiological Levels of S -Nitrosothiols in Human Plasma. Circulation Research, 2001, 89, .	2.0	38
52	Thiol oxidation and di-tyrosine formation in human plasma proteins induced by inflammatory concentrations of hypochlorous acid. Journal of Proteomics, 2017, 152, 22-32.	1.2	34
53	Membrane skeletal protein S-glutathionylation and hemolysis in human red blood cells. Blood Cells, Molecules, and Diseases, 2006, 37, 180-187.	0.6	30
54	Yolk vitamin E prevents oxidative damage in gull hatchlings. Royal Society Open Science, 2017, 4, 170098.	1.1	27

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55	Protein carbonylation in human bronchial epithelial cells exposed to cigarette smoke extract. Cell Biology and Toxicology, 2019, 35, 345-360.	2.4	26
56	Protein carbonylation in human endothelial cells exposed to cigarette smoke extract. Toxicology Letters, 2013, 218, 118-128.	0.4	25
57	Identification of dityrosine cross-linked sites in oxidized human serum albumin. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1019, 147-155.	1.2	25
58	Actin assembly by cadmium ions. Biochimica Et Biophysica Acta - Molecular Cell Research, 1997, 1357, 5-17.	1.9	23
59	Protein S-glutathionylation and platelet anti-aggregating activity of disulfiram. Biochemical Pharmacology, 2006, 72, 608-615.	2.0	22
60	Plasma protein thiolation index (PTI) as a biomarker of thiol-specific oxidative stress in haemodialyzed patients. Free Radical Biology and Medicine, 2015, 89, 443-451.	1.3	22
61	Red Blood Cells Protect Albumin from Cigarette Smokeâ€“Induced Oxidation. PLoS ONE, 2012, 7, e29930.	1.1	22
62	Metabolism of oxidants by blood from different mouse strains. Biochemical Pharmacology, 2006, 71, 1753-1764.	2.0	20
63	Oxidative stress induces a reversible flux of cysteine from tissues to blood inâ€ƒvivo in the rat. FEBS Journal, 2009, 276, 4946-4958.	2.2	20
64	Sex-Related Effects of Reproduction on Biomarkers of Oxidative Damage in Free-living Barn Swallows (Hirundo rustica). PLoS ONE, 2012, 7, e48955.	1.1	20
65	Paraquat induces actin assembly in depolymerizing conditions. FASEB Journal, 1997, 11, 261-270.	0.2	19
66	Interference of Plasmatic Reduced Glutathione and Hemolysis on Glutathione Disulfide Levels in Human Blood. Free Radical Research, 2004, 38, 1101-1106.	1.5	19
67	Ukrain Affects Pancreas Cancer Cell Phenotype in vitro by Targeting MMP-9 and Intra-/Extracellular SPARC Expression. Pancreatology, 2010, 10, 545-552.	0.5	19
68	N-acetylcysteine ethyl ester as GSH enhancer in human primary endothelial cells: A comparative study with other drugs. Free Radical Biology and Medicine, 2018, 126, 202-209.	1.3	19
69	How does doxorubicin interfere with actin polymerization?. Biochimica Et Biophysica Acta - Molecular Cell Research, 1988, 968, 9-16.	1.9	18
70	Cellular redox potential and hemoglobin S-glutathionylation in human and rat erythrocytes: A comparative study. Blood Cells, Molecules, and Diseases, 2010, 44, 133-139.	0.6	18
71	Single Silver Nanoparticle Instillation Induced Early and Persisting Moderate Cortical Damage in Rat Kidneys. International Journal of Molecular Sciences, 2017, 18, 2115.	1.8	17
72	Plasma protein-bound di-tyrosines as biomarkers of oxidative stress in end stage renal disease patients on maintenance haemodialysis. BBA Clinical, 2017, 7, 55-63.	4.1	16

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73	Plasma Protein Carbonylation in Haemodialysed Patients: Focus on Diabetes and Gender. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-12.	1.9	16
74	Membrane Skeletal Protein S-Glutathionylation in Human Red Blood Cells as Index of Oxidative Stress. Chemical Research in Toxicology, 2019, 32, 1096-1102.	1.7	16
75	Plasma Protein Carbonyls as Biomarkers of Oxidative Stress in Chronic Kidney Disease, Dialysis, and Transplantation. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-20.	1.9	15
76	Î±-Actinin Increases Actin Filament End Concentration by Inhibiting Annealing. Journal of Molecular Biology, 1993, 230, 1151-1158.	2.0	13
77	Cigarette smoke induces alterations in the drug-binding properties of human serum albumin. Blood Cells, Molecules, and Diseases, 2014, 52, 166-174.	0.6	13
78	Potential toxicity of environmentally relevant perfluorooctane sulfonate (PFOS) concentrations to yellow-legged gull Larus michahellis embryos. Environmental Science and Pollution Research, 2016, 23, 426-437.	2.7	13
79	Protein Carbonylation in Human Smokers and Mammalian Models of Exposure to Cigarette Smoke: Focus on Redox Proteomic Studies. Antioxidants and Redox Signaling, 2017, 26, 406-426.	2.5	13
80	Lithium increases actin polymerization rates by enhancing the nucleation step. Journal of Molecular Biology, 1991, 217, 401-404.	2.0	12
81	Is There an Answer?. IUBMB Life, 2005, 57, 189-192.	1.5	12
82	Cigarette smoke and glutathione: Focus on in vitro cell models. Toxicology in Vitro, 2020, 65, 104818.	1.1	12
83	Pancreatic cancer cells retain the epithelial-related phenotype and modify mitotic spindle microtubules after the administration of ukrain in vitro. Anti-Cancer Drugs, 2012, 23, 935-946.	0.7	12
84	Malignant phenotype of renal cell carcinoma cells is switched by Ukrain administration in vitro. Anti-Cancer Drugs, 2011, 22, 749-762.	0.7	11
85	Advanced oxidation protein products in nondiabetic end stage renal disease patients on maintenance haemodialysis. Free Radical Research, 2019, 53, 1114-1124.	1.5	11
86	Determination of protein thiolation index (PTI) as a biomarker of oxidative stress in human serum. Analytical Biochemistry, 2017, 538, 38-41.	1.1	10
87	Effect of Replacement of the Tightly Bound Ca2+by Ba2+on Actin Polymerization. Archives of Biochemistry and Biophysics, 1998, 351, 141-148.	1.4	8
88	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. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 3467-3474.	1.2	8
89	Carboplatin-induced alteration of the thiol homeostasis in the isolated perfused rat kidney. Archives of Biochemistry and Biophysics, 2009, 488, 83-89.	1.4	8
90	Antioxidants in smokers. Nutrition Research Reviews, 2021, , 1-28.	2.1	8

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91	Antioxidants and embryo phenotype: is there experimental evidence for strong integration of the antioxidant system?. Journal of Experimental Biology, 2017, 220, 615-624.	0.8	7
92	Anethole Dithiolethione Increases Glutathione in Kidney by Inhibiting Î³-Glutamyltranspeptidase: Biochemical Interpretation and Pharmacological Consequences. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-13.	1.9	7
93	G-actin conformational change and polymerization induced by paraquat. Biochemistry and Cell Biology, 1998, 76, 583-591.	0.9	5
94	Measurement of S-glutathionylated proteins by HPLC. Amino Acids, 2022, 54, 675-686.	1.2	5
95	Blood Thiol Redox State in Chronic Kidney Disease. International Journal of Molecular Sciences, 2022, 23, 2853.	1.8	5
96	Dietary flavonoids advance timing of moult but do not affect redox status of juvenile blackbirds (Turdus merula). Journal of Experimental Biology, 2016, 219, 3155-3162.	0.8	4
97	Sulforaphane Cannot Protect Human Fibroblasts From Repeated, Short and Sublethal Treatments with Hydrogen Peroxide. International Journal of Environmental Research and Public Health, 2019, 16, 657.	1.2	4
98	Proteins as Sensitive Biomarkers of Human Conditions Associated with Oxidative Stress. , 2006, , 485-525.		3
99	Protein thiolation index in microvolumes of plasma. Analytical Biochemistry, 2021, 618, 114125.	1.1	3
100	N-Ethylmaleimide-modified actin filaments do not bundle in the presence of Î±-actinin. Biochemistry and Cell Biology, 1995, 73, 116-122.	0.9	2
101	Preliminary experience on the use of sucrosomial iron in hemodialysis: focus on safety, hemoglobin maintenance and oxidative stress. International Urology and Nephrology, 2022, 54, 1145-1153.	0.6	2
102	Notes on Technic: Use of Tetramethylrhodamine-Phallacidin in the Morphological Study of Striated Skeletal Muscle. Biotechnic & Histochemistry, 1987, 62, 130-132.	0.4	1
103	Lithium preserves F-actin from the disarrangement induced by either DNase I or cytochalasin D. Biochemistry and Cell Biology, 1993, 71, 440-446.	0.9	0