Matilde Maiorino

List of Publications by Year
in descending order

75	10,431	61984 43	82547 72
papers	citations	h-index	g-index

77	77	77	9873
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A white paper on Phospholipid Hydroperoxide Glutathione Peroxidase (GPx4) forty years later. Free Radical Biology and Medicine, 2022, 188, 117-133.	2.9	33
2	Aerobic pyruvate metabolism sensitizes cells to ferroptosis primed by GSH depletion. Free Radical Biology and Medicine, 2021, 167, 45-53.	2.9	19
3	Redox Pioneer: Professor Regina Brigelius-FlohÃ©. Antioxidants and Redox Signaling, 2021, 35, 595-601.	5.4	0
4	Production and purification of homogenous recombinant human selenoproteins reveals a unique codon skipping event in E. coli and GPX4-specific affinity to bromosulfophthalein. Redox Biology, 2021, 46, 102070.	9.0	15
5	Insight into the mechanism of ferroptosis inhibition by ferrostatin-1. Redox Biology, 2020, 28, 101328.	9.0	369
6	Inactivation of the glutathione peroxidase GPx4 by the ferroptosisâ€inducing molecule RSL3 requires the adaptor protein 14â€3â€3Îµ. FEBS Letters, 2020, 594, 611-624.	2.8	41
7	Lack of glutathione peroxidase-8 in the ER impacts on lipid composition of HeLa cells microsomal membranes. Free Radical Biology and Medicine, 2020, 147, 80-89.	2.9	13
8	Lipid peroxidation and ferroptosis: The role of GSH and GPx4. Free Radical Biology and Medicine, 2020, 152, 175-185.	2.9	738
9	GPx4, Lipid Peroxidation, and Cell Death: Discoveries, Rediscoveries, and Open Issues. Antioxidants and Redox Signaling, 2018, 29, 61-74.	5.4	377
10	Glutathione peroxidase 4-catalyzed reduction of lipid hydroperoxides in membranes: The polar head of membrane phospholipids binds the enzyme and addresses the fatty acid hydroperoxide group toward the redox center. Free Radical Biology and Medicine, 2017, 112, 1-11.	2.9	97
11	Redox status in a model of cancer stem cells. Archives of Biochemistry and Biophysics, 2017, 617, 120-128.	3.0	10
12	The Oxygen Paradox, the French Paradox, and age-related diseases. GeroScience, 2017, 39, 499-550.	4.6	59
13	Interactions between Nrf2 Activation and Glutathione in the Maintenance of Redox Homeostasis. , 2017, , 409-421.		0
14	Glutathione Peroxidase 4. , 2016, , 223-234.		5
15	Selenoprotein Gene Nomenclature. Journal of Biological Chemistry, 2016, 291, 24036-24040.	3.4	207
16	Redox homeostasis: The Golden Mean of healthy living. Redox Biology, 2016, 8, 205-215.	9.0	300
17	Glutathione peroxidase 8 is transcriptionally regulated by HIFÎ± and modulates growth factor signaling in HeLa cells. Free Radical Biology and Medicine, 2015, 81, 58-68.	2.9	28
18	Selenocysteine oxidation in glutathione peroxidase catalysis: an MS-supported quantum mechanics study. Free Radical Biology and Medicine, 2015, 87, 1-14.	2.9	100

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19	Understanding mammalian glutathione peroxidase 7 in the light of its homologs. Free Radical Biology and Medicine, 2015, 83, 352-360.	2.9	35
20	Quantitative label-free redox proteomics of reversible cysteine oxidation in red blood cell membranes. Free Radical Biology and Medicine, 2014, 71, 90-98.	2.9	15
21	An overview of mechanisms of redox signaling. Journal of Molecular and Cellular Cardiology, 2014, 73, 2-9.	1.9	226
22	Protein disulfide isomerase and glutathione are alternative substrates in the one Cys catalytic cycle of glutathione peroxidase 7. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 3846-3857.	2.4	53
23	Glutathione peroxidases. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 3289-3303.	2.4	1,367
24	Cysteine mutant of mammalian GPx4 rescues cell death induced by disruption of the wildâ€type selenoenzyme. FASEB Journal, 2011, 25, 2135-2144.	0.5	34
25	Redox Pioneer: Professor Leopold FlohÃ©. Antioxidants and Redox Signaling, 2010, 13, 1617-1622.	5.4	4
26	Signaling Functions of Reactive Oxygen Species. Biochemistry, 2010, 49, 835-842.	2.5	686
27	Identification by MS/MS of Disulfides Produced by a Functional Redox Transition. Methods in Enzymology, 2010, 473, 217-225.	1.0	7
28	Catalytic mechanisms and specificities of glutathione peroxidases: Variations of a basic scheme. Biochimica Et Biophysica Acta - General Subjects, 2009, 1790, 1486-1500.	2.4	301
29	Mitochondrial glutathione peroxidase 4 disruption causes male infertility. FASEB Journal, 2009, 23, 3233-3242.	0.5	251
30	Differential liquid phase proteomic analysis of the effect of selenium supplementation in LNCaP cells. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 865, 63-73.	2.3	5
31	MPA: A multiple peak alignment algorithm to perform multiple comparisons of liquidâ€phase proteomic profiles. Proteomics, 2008, 8, 250-253.	2.2	8
32	The Catalytic Site of Glutathione Peroxidases. Antioxidants and Redox Signaling, 2008, 10, 1515-1526.	5.4	151
33	The Thioredoxin Specificity of Drosophila GPx: A Paradigm for a Peroxiredoxin-like Mechanism of many Glutathione Peroxidases. Journal of Molecular Biology, 2007, 365, 1033-1046.	4.2	113
34	Effect of mercury on selenium utilization and selenoperoxidase activity in LNCaP cells. Free Radical Biology and Medicine, 2007, 42, 118-123.	2.9	16
35	Selenium and male reproduction. , 2006, , 323-331.		5
36	Native specific activity of glutathione peroxidase (GPx-1), phospholipid hydroperoxide glutathione peroxidase (PHGPx) and glutathione reductase (GR) does not differ between normo- and hypomotile human sperm samples. Journal of Developmental and Physical Disabilities, 2005, 28, 61-62.	3.6	4

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37	Functional Interaction of Phospholipid Hydroperoxide Glutathione Peroxidase with Sperm Mitochondrion-associated Cysteine-rich Protein Discloses the Adjacent Cysteine Motif as a New Substrate of the Selenoperoxidase. Journal of Biological Chemistry, 2005, 280, 38395-38402.	3.4	81
38	Oral carnitine supplementation increases sperm motility in asthenozoospermic men with normal sperm phospholipid hydroperoxide glutathione peroxidase levels. Fertility and Sterility, 2005, 83, 355-361.	1.0	64
39	Primary structure of the nuclear forms of phospholipid hydroperoxide glutathione peroxidase (PHGPx) in rat spermatozoa. FEBS Letters, 2005, 579, 667-670.	2.8	20
40	Versatility of Selenium Catalysis in PHGPx Unraveled by LC/ESI-MS/MS. Biological Chemistry, 2003, 384, 575-88.	2.5	90
41	Genetic Variations of gpx-4 and Male Infertility in Humans1. Biology of Reproduction, 2003, 68, 1134-1141.	2.7	78
42	Distinct Promoters Determine Alternative Transcription of gpx-4 into Phospholipid-Hydroperoxide Glutathione Peroxidase Variants. Journal of Biological Chemistry, 2003, 278, 34286-34290.	3.4	109
43	Oxidative Stress, Spermatogenesis and Fertility. Biological Chemistry, 2002, 383, 591-7.	2.5	51
44	Male Fertility Is Linked to the Selenoprotein Phospholipid Hydroperoxide Glutathione Peroxidase1. Biology of Reproduction, 2002, 67, 967-971.	2.7	234
45	Phospholipidâ€“Hydroperoxide Glutathione Peroxidase in Sperm. Methods in Enzymology, 2002, 347, 208-212.	1.0	19
46	PHGPx and spermatogenesis. BioFactors, 2001, 14, 213-222.	5.4	50
47	Reactive oxygen species and proinflammatory cytokine signaling in endothelial cells: effect of selenium supplementation. Free Radical Biology and Medicine, 2000, 28, 979-986.	2.9	82
48	Kinetic analysis of lipid-hydroperoxides in plasma. Free Radical Biology and Medicine, 2000, 29, 397-402.	2.9	8
49	Measurement of lipid hydroperoxides in human plasma and lipoproteins by kinetic analysis of photon emission. Methods in Enzymology, 1999, 300, 33-43.	1.0	15
50	Dual Function of the Selenoprotein PHGPx During Sperm Maturation. Science, 1999, 285, 1393-1396.	12.6	798
51	Postprandial Plasma Lipid Hydroperoxides: A Possible Link Between Diet and Atherosclerosis. Free Radical Biology and Medicine, 1998, 25, 250-252.	2.9	159
52	Testosterone mediates expression of the selenoprotein PHGPx by induction of spermatogenesis and not by direct transcriptional gene activation. FASEB Journal, 1998, 12, 1359-1370.	0.5	144
53	Phospholipid Hydroperoxide Glutathione Peroxidase (PHGPx) in Rat Testis Nuclei Is Bound to Chromatin. Biochemical and Molecular Medicine, 1996, 59, 118-124.	1.4	78
54	A Selenium-Containing Phospholipid-Hydroperoxide Glutathione Peroxidase in Schistosoma mansoni. FEBS Journal, 1996, 238, 838-844.	0.2	60

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55	Direct Measurement by Single Photon Counting of Lipid Hydroperoxides in Human Plasma and Lipoproteins. Analytical Biochemistry, 1995, 232, 107-113.	2.4	33
56	Copper-induced lipid peroxidation in liposomes, micelles, and LDL: Which is the role of vitamin E?. Free Radical Biology and Medicine, 1995, 18, 67-74.	2.9	59
57	Probing the Presumed Catalytic Triad of Selenium-Containing Peroxidases by Mutational Analysis of Phospholipid Hydroperoxide Glutathione Peroxidase (PHGPx). Biological Chemistry Hoppe-Seyler, 1995, 376, 651-660.	1.4	216
58	[20] Enzymatic and immunological measurements of soluble and membrane-bound phospholipid-hydroperoxide glutathione peroxidase. Methods in Enzymology, 1994, 233, 202-212.	1.0	153
59	Reactivity of metmyoglobin towards phospholipid hydroperoxides. Free Radical Biology and Medicine, 1994, 16, 661-667.	2.9	38
60	Effect of plasma on the degradation of hydroperoxides of unesterified linoleic acid and copper-peroxidized LDL. Free Radical Biology and Medicine, 1994, 16, 459-463.	2.9	4
61	Purification and characterization of phospholipid hydroperoxide glutathione peroxidase from rat testis mitochondrial membranes. BBA - Proteins and Proteomics, 1994, 1208, 211-221.	2.1	100
62	Prooxidant role of vitamin E in copper induced lipid peroxidation. FEBS Letters, 1993, 330, 174-176.	2.8	86
63	Antioxidant effect of ebselen (PZ 51): Peroxidase mimetic activity on phospholipid and cholesterol hydroperoxides vs free radical scavenger activity. Archives of Biochemistry and Biophysics, 1992, 295, 404-409.	3.0	76
64	Effect of hydrogen peroxide on calcium homeostasis in smooth muscle cells. Archives of Biochemistry and Biophysics, 1992, 297, 265-270.	3.0	157
65	Lacidipine: A dihydropyridine calcium antagonist with antioxidant activity. Free Radical Biology and Medicine, 1992, 12, 183-187.	2.9	104
66	Effect of Fish Oil and Coconut Oil on Antioxidant Defence System and Lipid Peroxidation in Rat Liver. Free Radical Research Communications, 1991, 12, 147-152.	1.8	38
67	[47] Phospholipid hydroperoxide glutathione peroxidase. Methods in Enzymology, 1990, 186, 448-457.	1.0	215
68	Microsomal lipid peroxidation: Effect of vitamin E and its functional interaction with phospholipid hydroperoxide glutathione peroxidase. Lipids, 1989, 24, 721-726.	1.7	143
69	Increased ultra weak chemiluminescence emission from rat heart at postischemic reoxygenation: protective role of vitamin E. Free Radical Biology and Medicine, 1989, 6, 573-579.	2.9	33
70	Microsomal lipid peroxidation: Mechanisms of initiation. Free Radical Biology and Medicine, 1989, 6, 31-36.	2.9	88
71	Kinetic mechanism and substrate specificity of glutathione peroxidase activity of ebselen (PZ51). Biochemical Pharmacology, 1988, 37, 2267-2271.	4.4	152
72	Different effects of Triton X-100, deoxycholate, and fatty acids on the kinetics of glutathione peroxidase and phospholipid hydroperoxide glutathione peroxidase. Archives of Biochemistry and Biophysics, 1986, 251, 600-605.	3.0	32

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73	The selenoenzyme phospholipid hydroperoxide glutathione peroxidase. Biochimica Et Biophysica Acta - General Subjects, 1985, 839, 62-70.	2.4	817
74	Enzymatic determination of membrane lipid peroxidation. Journal of Free Radicals in Biology & Medicine, 1985, 1, 203-207.	2.1	35
75	Evidence of peroxidase activity of the peroxidation inhibiting protein on dilinoleyl phosphatidylcholine hydroperoxide as obtained in direct electron impact conditions. Biomedical Mass Spectrometry, 1983, 10, 499-504.	1.9	17