

# Matilde Maiorino

## List of Publications by Year in descending order

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75  
papers

10,431  
citations

61984

43  
h-index

82547

72  
g-index

77  
all docs

77  
docs citations

77  
times ranked

9873  
citing authors

#	ARTICLE	IF	CITATIONS
1	Glutathione peroxidases. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 3289-3303.	2.4	1,367
2	The selenoenzyme phospholipid hydroperoxide glutathione peroxidase. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1985, 839, 62-70.	2.4	817
3	Dual Function of the Selenoprotein PHGPx During Sperm Maturation. <i>Science</i> , 1999, 285, 1393-1396.	12.6	798
4	Lipid peroxidation and ferroptosis: The role of GSH and GPx4. <i>Free Radical Biology and Medicine</i> , 2020, 152, 175-185.	2.9	738
5	Signaling Functions of Reactive Oxygen Species. <i>Biochemistry</i> , 2010, 49, 835-842.	2.5	686
6	GPx4, Lipid Peroxidation, and Cell Death: Discoveries, Rediscoveries, and Open Issues. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 61-74.	5.4	377
7	Insight into the mechanism of ferroptosis inhibition by ferrostatin-1. <i>Redox Biology</i> , 2020, 28, 101328.	9.0	369
8	Catalytic mechanisms and specificities of glutathione peroxidases: Variations of a basic scheme. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2009, 1790, 1486-1500.	2.4	301
9	Redox homeostasis: The Golden Mean of healthy living. <i>Redox Biology</i> , 2016, 8, 205-215.	9.0	300
10	Mitochondrial glutathione peroxidase 4 disruption causes male infertility. <i>FASEB Journal</i> , 2009, 23, 3233-3242.	0.5	251
11	Male Fertility Is Linked to the Selenoprotein Phospholipid Hydroperoxide Glutathione Peroxidase1. <i>Biology of Reproduction</i> , 2002, 67, 967-971.	2.7	234
12	An overview of mechanisms of redox signaling. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 73, 2-9.	1.9	226
13	Probing the Presumed Catalytic Triad of Selenium-Containing Peroxidases by Mutational Analysis of Phospholipid Hydroperoxide Glutathione Peroxidase (PHGPx). <i>Biological Chemistry Hoppe-Seyler</i> , 1995, 376, 651-660.	1.4	216
14	[47] Phospholipid hydroperoxide glutathione peroxidase. <i>Methods in Enzymology</i> , 1990, 186, 448-457.	1.0	215
15	Selenoprotein Gene Nomenclature. <i>Journal of Biological Chemistry</i> , 2016, 291, 24036-24040.	3.4	207
16	Postprandial Plasma Lipid Hydroperoxides: A Possible Link Between Diet and Atherosclerosis. <i>Free Radical Biology and Medicine</i> , 1998, 25, 250-252.	2.9	159
17	Effect of hydrogen peroxide on calcium homeostasis in smooth muscle cells. <i>Archives of Biochemistry and Biophysics</i> , 1992, 297, 265-270.	3.0	157
18	[20] Enzymatic and immunological measurements of soluble and membrane-bound phospholipid-hydroperoxide glutathione peroxidase. <i>Methods in Enzymology</i> , 1994, 233, 202-212.	1.0	153

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19	Kinetic mechanism and substrate specificity of glutathione peroxidase activity of ebselen (PZ51). <i>Biochemical Pharmacology</i> , 1988, 37, 2267-2271.	4.4	152
20	The Catalytic Site of Glutathione Peroxidases. <i>Antioxidants and Redox Signaling</i> , 2008, 10, 1515-1526.	5.4	151
21	Testosterone mediates expression of the selenoprotein PHGPx by induction of spermatogenesis and not by direct transcriptional gene activation. <i>FASEB Journal</i> , 1998, 12, 1359-1370.	0.5	144
22	Microsomal lipid peroxidation: Effect of vitamin E and its functional interaction with phospholipid hydroperoxide glutathione peroxidase. <i>Lipids</i> , 1989, 24, 721-726.	1.7	143
23	The Thioredoxin Specificity of Drosophila GPx: A Paradigm for a Peroxiredoxin-like Mechanism of many Glutathione Peroxidases. <i>Journal of Molecular Biology</i> , 2007, 365, 1033-1046.	4.2	113
24	Distinct Promoters Determine Alternative Transcription of gpx-4 into Phospholipid-Hydroperoxide Glutathione Peroxidase Variants. <i>Journal of Biological Chemistry</i> , 2003, 278, 34286-34290.	3.4	109
25	Lacidipine: A dihydropyridine calcium antagonist with antioxidant activity. <i>Free Radical Biology and Medicine</i> , 1992, 12, 183-187.	2.9	104
26	Purification and characterization of phospholipid hydroperoxide glutathione peroxidase from rat testis mitochondrial membranes. <i>BBA - Proteins and Proteomics</i> , 1994, 1208, 211-221.	2.1	100
27	Selenocysteine oxidation in glutathione peroxidase catalysis: an MS-supported quantum mechanics study. <i>Free Radical Biology and Medicine</i> , 2015, 87, 1-14.	2.9	100
28	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. <i>Free Radical Biology and Medicine</i> , 2017, 112, 1-11.	2.9	97
29	Versatility of Selenium Catalysis in PHGPx Unraveled by LC/ESI-MS/MS. <i>Biological Chemistry</i> , 2003, 384, 575-588.	2.5	90
30	Microsomal lipid peroxidation: Mechanisms of initiation. <i>Free Radical Biology and Medicine</i> , 1989, 6, 31-36.	2.9	88
31	Prooxidant role of vitamin E in copper induced lipid peroxidation. <i>FEBS Letters</i> , 1993, 330, 174-176.	2.8	86
32	Reactive oxygen species and proinflammatory cytokine signaling in endothelial cells: effect of selenium supplementation. <i>Free Radical Biology and Medicine</i> , 2000, 28, 979-986.	2.9	82
33	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. <i>Journal of Biological Chemistry</i> , 2005, 280, 38395-38402.	3.4	81
34	Phospholipid Hydroperoxide Glutathione Peroxidase (PHGPx) in Rat Testis Nuclei Is Bound to Chromatin. <i>Biochemical and Molecular Medicine</i> , 1996, 59, 118-124.	1.4	78
35	Genetic Variations of gpx-4 and Male Infertility in Humans <sup>1</sup> . <i>Biology of Reproduction</i> , 2003, 68, 1134-1141.	2.7	78
36	Antioxidant effect of ebselen (PZ 51): Peroxidase mimetic activity on phospholipid and cholesterol hydroperoxides vs free radical scavenger activity. <i>Archives of Biochemistry and Biophysics</i> , 1992, 295, 404-409.	3.0	76

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37	Oral carnitine supplementation increases sperm motility in asthenozoospermic men with normal sperm phospholipid hydroperoxide glutathione peroxidase levels. <i>Fertility and Sterility</i> , 2005, 83, 355-361.	1.0	64
38	A Selenium-Containing Phospholipid-Hydroperoxide Glutathione Peroxidase in <i>Schistosoma mansoni</i> . <i>FEBS Journal</i> , 1996, 238, 838-844.	0.2	60
39	Copper-induced lipid peroxidation in liposomes, micelles, and LDL: Which is the role of vitamin E?. <i>Free Radical Biology and Medicine</i> , 1995, 18, 67-74.	2.9	59
40	The Oxygen Paradox, the French Paradox, and age-related diseases. <i>GeroScience</i> , 2017, 39, 499-550.	4.6	59
41	Protein disulfide isomerase and glutathione are alternative substrates in the one Cys catalytic cycle of glutathione peroxidase 7. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 3846-3857.	2.4	53
42	Oxidative Stress, Spermatogenesis and Fertility. <i>Biological Chemistry</i> , 2002, 383, 591-7.	2.5	51
43	PHGPx and spermatogenesis. <i>BioFactors</i> , 2001, 14, 213-222.	5.4	50
44	Inactivation of the glutathione peroxidase GPx4 by the ferroptosis-inducing molecule RSL3 requires the adaptor protein 14-3-3 $\mu$ . <i>FEBS Letters</i> , 2020, 594, 611-624.	2.8	41
45	Effect of Fish Oil and Coconut Oil on Antioxidant Defence System and Lipid Peroxidation in Rat Liver. <i>Free Radical Research Communications</i> , 1991, 12, 147-152.	1.8	38
46	Reactivity of metmyoglobin towards phospholipid hydroperoxides. <i>Free Radical Biology and Medicine</i> , 1994, 16, 661-667.	2.9	38
47	Enzymatic determination of membrane lipid peroxidation. <i>Journal of Free Radicals in Biology &amp; Medicine</i> , 1985, 1, 203-207.	2.1	35
48	Understanding mammalian glutathione peroxidase 7 in the light of its homologs. <i>Free Radical Biology and Medicine</i> , 2015, 83, 352-360.	2.9	35
49	Cysteine mutant of mammalian GPx4 rescues cell death induced by disruption of the wild-type selenoenzyme. <i>FASEB Journal</i> , 2011, 25, 2135-2144.	0.5	34
50	Increased ultra weak chemiluminescence emission from rat heart at postischemic reoxygenation: protective role of vitamin E. <i>Free Radical Biology and Medicine</i> , 1989, 6, 573-579.	2.9	33
51	Direct Measurement by Single Photon Counting of Lipid Hydroperoxides in Human Plasma and Lipoproteins. <i>Analytical Biochemistry</i> , 1995, 232, 107-113.	2.4	33
52	A white paper on Phospholipid Hydroperoxide Glutathione Peroxidase (GPx4) forty years later. <i>Free Radical Biology and Medicine</i> , 2022, 188, 117-133.	2.9	33
53	Different effects of Triton X-100, deoxycholate, and fatty acids on the kinetics of glutathione peroxidase and phospholipid hydroperoxide glutathione peroxidase. <i>Archives of Biochemistry and Biophysics</i> , 1986, 251, 600-605.	3.0	32
54	Glutathione peroxidase 8 is transcriptionally regulated by HIF1 $\alpha$ and modulates growth factor signaling in HeLa cells. <i>Free Radical Biology and Medicine</i> , 2015, 81, 58-68.	2.9	28

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55	Primary structure of the nuclear forms of phospholipid hydroperoxide glutathione peroxidase (PHGPx) in rat spermatozoa. <i>FEBS Letters</i> , 2005, 579, 667-670.	2.8	20
56	Phospholipid Hydroperoxide Glutathione Peroxidase in Sperm. <i>Methods in Enzymology</i> , 2002, 347, 208-212.	1.0	19
57	Aerobic pyruvate metabolism sensitizes cells to ferroptosis primed by GSH depletion. <i>Free Radical Biology and Medicine</i> , 2021, 167, 45-53.	2.9	19
58	Evidence of peroxidase activity of the peroxidation inhibiting protein on dilinoleyl phosphatidylcholine hydroperoxide as obtained in direct electron impact conditions. <i>Biomedical Mass Spectrometry</i> , 1983, 10, 499-504.	1.9	17
59	Effect of mercury on selenium utilization and selenoperoxidase activity in LNCaP cells. <i>Free Radical Biology and Medicine</i> , 2007, 42, 118-123.	2.9	16
60	Measurement of lipid hydroperoxides in human plasma and lipoproteins by kinetic analysis of photon emission. <i>Methods in Enzymology</i> , 1999, 300, 33-43.	1.0	15
61	Quantitative label-free redox proteomics of reversible cysteine oxidation in red blood cell membranes. <i>Free Radical Biology and Medicine</i> , 2014, 71, 90-98.	2.9	15
62	Production and purification of homogenous recombinant human selenoproteins reveals a unique codon skipping event in <i>E. coli</i> and GPX4-specific affinity to bromosulphophthalein. <i>Redox Biology</i> , 2021, 46, 102070.	9.0	15
63	Lack of glutathione peroxidase-8 in the ER impacts on lipid composition of HeLa cells microsomal membranes. <i>Free Radical Biology and Medicine</i> , 2020, 147, 80-89.	2.9	13
64	Redox status in a model of cancer stem cells. <i>Archives of Biochemistry and Biophysics</i> , 2017, 617, 120-128.	3.0	10
65	Kinetic analysis of lipid-hydroperoxides in plasma. <i>Free Radical Biology and Medicine</i> , 2000, 29, 397-402.	2.9	8
66	MPA: A multiple peak alignment algorithm to perform multiple comparisons of liquid phase proteomic profiles. <i>Proteomics</i> , 2008, 8, 250-253.	2.2	8
67	Identification by MS/MS of Disulfides Produced by a Functional Redox Transition. <i>Methods in Enzymology</i> , 2010, 473, 217-225.	1.0	7
68	Differential liquid phase proteomic analysis of the effect of selenium supplementation in LNCaP cells. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 865, 63-73.	2.3	5
69	Glutathione Peroxidase 4. , 2016, , 223-234.		5
70	Selenium and male reproduction. , 2006, , 323-331.		5
71	Effect of plasma on the degradation of hydroperoxides of unesterified linoleic acid and copper-peroxidized LDL. <i>Free Radical Biology and Medicine</i> , 1994, 16, 459-463.	2.9	4
72	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. <i>Journal of Developmental and Physical Disabilities</i> , 2005, 28, 61-62.	3.6	4

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73	Redox Pioneer: Professor Leopold FlohÃ©. Antioxidants and Redox Signaling, 2010, 13, 1617-1622.	5.4	4
74	Redox Pioneer: Professor Regina Brigelius-FlohÃ©. Antioxidants and Redox Signaling, 2021, 35, 595-601.	5.4	0
75	Interactions between Nrf2 Activation and Glutathione in the Maintenance of Redox Homeostasis. , 2017, , 409-421.		0