Leopold FlohÃ©

List of Publications by Year
in descending order

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64 papers	7,945 citations	57631 44 h-index	114278 63 g-index
66 all docs	66 docs citations	66 times ranked	6449 citing authors

#	Article	IF	Citations
1	Redox Regulation of NF-kappa B Activation. Free Radical Biology and Medicine, 1997, 22, 1115-1126.	1.3	788
2	Peroxiredoxins. Biological Chemistry, 2002, 383, 347-64.	1.2	717
3	Superoxide radicals as precursors of mitochondrial hydrogen peroxide. FEBS Letters, 1974, 42, 68-72.	1.3	556
4	Basic Principles and Emerging Concepts in the Redox Control of Transcription Factors. Antioxidants and Redox Signaling, 2011, 15, 2335-2381.	2.5	493
5	Glutathione Peroxidase, V. The kinetic mechanism. Hoppe-Seyler's Zeitschrift FÃ¼r Physiologische Chemie, 1972, 353, 987-1000.	1.7	317
6	Catalytic mechanisms and specificities of glutathione peroxidases: Variations of a basic scheme. Biochimica Et Biophysica Acta - General Subjects, 2009, 1790, 1486-1500.	1.1	301
7	Lipoic acid increases de novo synthesis of cellular glutathione by improving cystine utilization. BioFactors, 1997, 6, 321-338.	2.6	299
8	A Unique Cascade of Oxidoreductases Catalyses Trypanothione-Mediated Peroxide Metabolism in Crithidia fasciculata. Biological Chemistry, 1997, 378, 827-36.	1.2	255
9	Oxidation in the NADP system and release of GSSG from hemoglobin-free perfused rat liver during peroxidatic oxidation of glutathione by hydroperoxides. FEBS Letters, 1972, 27, 171-175.	1.3	243
10	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
11	Regulatory Phenomena in the Glutathione Peroxidase Superfamily. Antioxidants and Redox Signaling, 2020, 33, 498-516.	2.5	213
12	mRNA stability and selenocysteine insertion sequence efficiency rank gastrointestinal glutathione peroxidase high in the hierarchy of Ã¯Â¿Â½selenoproteins. FEBS Journal, 1999, 259, 149-157.	0.2	177
13	Multiple thioredoxin-mediated routes to detoxify hydroperoxides in Mycobacterium tuberculosis. Archives of Biochemistry and Biophysics, 2004, 423, 182-191.	1.4	151
14	The Catalytic Site of Glutathione Peroxidases. Antioxidants and Redox Signaling, 2008, 10, 1515-1526.	2.5	151
15	Inhibition of lipid peroxidation in isolated inner membrane of rat liver mitochondria by superoxide dismutase. FEBS Letters, 1973, 29, 117-120.	1.3	144
16	Testosterone mediates expression of the selenoprotein PHGPx by induction of spermatogenesis and not by direct transcriptional gene activation. FASEB Journal, 1998, 12, 1359-1370.	0.2	144
17	The Amino-Acid Sequence of Bovine Glutathione Peroxidase. Hoppe-Seyler's Zeitschrift FÃ¼r Physiologische Chemie, 1984, 365, 195-212.	1.7	142
18	The Putative Glutathione Peroxidase Gene ofPlasmodium falciparum Codes for a Thioredoxin Peroxidase. Journal of Biological Chemistry, 2001, 276, 7397-7403.	1.6	142

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19	Tryparedoxin Peroxidase of Leishmania donovani: Molecular Cloning, Heterologous Expression, Specificity, and Catalytic Mechanism. Archives of Biochemistry and Biophysics, 2002, 397, 324-335.	1.4	120
20	Selenium, the Element of the Moon, in Life on Earth. IUBMB Life, 2000, 49, 411-420.	1.5	115
21	Kinetics of Peroxiredoxins and their Role in the Decomposition of Peroxynitrite. Sub-Cellular Biochemistry, 2007, 44, 83-113.	1.0	115
22	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.	2.0	113
23	Selenium and redox signaling. Archives of Biochemistry and Biophysics, 2017, 617, 48-59.	1.4	113
24	Superoxide dismutase for therapeutic use: Clinical experience, dead ends and hopes. Molecular and Cellular Biochemistry, 1988, 84, 123-131.	1.4	107
25	Selenocysteine oxidation in glutathione peroxidase catalysis: an MS-supported quantum mechanics study. Free Radical Biology and Medicine, 2015, 87, 1-14.	1.3	100
26	Catalytic Characteristics of Tryparedoxin. FEBS Journal, 1997, 248, 913-918.	0.2	98
27	Versatility of Selenium Catalysis in PHGPx Unraveled by LC/ESI-MS/MS. Biological Chemistry, 2003, 384, 575-88.	1.2	90
28	The role of GSH peroxidase in protecting the membrane of rat liver mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 1970, 223, 210-213.	0.5	88
29	Changing Paradigms in Thiology. Methods in Enzymology, 2010, 473, 1-39.	0.4	88
30	Kinetics and Redox-Sensitive Oligomerisation Reveal Negative Subunit Cooperativity in Tryparedoxin Peroxidase of Trypanosoma brucei brucei. Biological Chemistry, 2003, 384, 619-33.	1.2	86
31	The labour pains of biochemical selenology: The history of selenoprotein biosynthesis. Biochimica Et Biophysica Acta - General Subjects, 2009, 1790, 1389-1403.	1.1	78
32	Glutathion-Peroxidase, I. Reindarstellung und Molekulargewichtsbestimmungen. Hoppe-Seyler's Zeitschrift FÃ¼r Physiologische Chemie, 1971, 352, 151-158.	1.7	75
33	The impact of thiol peroxidases on redox regulation. Free Radical Research, 2016, 50, 126-142.	1.5	73
34	Redox regulation by glutathione needs enzymes. Frontiers in Pharmacology, 2014, 5, 168.	1.6	71
35	Activation of active-site cysteine residues in the peroxiredoxin-type tryparedoxin peroxidase of Crithidia fasciculata. FEBS Journal, 1999, 264, 516-524.	0.2	69
36	Glutathion-Peroxidase, II. SubstratspezifitÃt und Hemmbarkeit durch Substratanaloge. Hoppe-Seyler's Zeitschrift FÃ¼r Physiologische Chemie, 1971, 352, 159-169.	1.7	66

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37	The glutathione peroxidase family: Discoveries and mechanism. Free Radical Biology and Medicine, 2022, 187, 113-122.	1.3	64
38	A Selenium-Containing Phospholipid-Hydroperoxide Glutathione Peroxidase in Schistosoma mansoni. FEBS Journal, 1996, 238, 838-844.	0.2	60
39	The Primary Structure of Cu-Zn Superoxide Dismutase fromPhotobacterium leiognathi:Evidence for a Separate Evolution of Cu-Zn Superoxide Dismutase in Bacteria. Hoppe-Seyler's Zeitschrift FÃ¼r Physiologische Chemie, 1983, 364, 675-690.	1.7	58
40	Peroxiredoxins in antioxidant defense and redox regulation. BioFactors, 2003, 19, 3-10.	2.6	53
41	PHGPx and spermatogenesis. BioFactors, 2001, 14, 213-222.	2.6	50
42	Untersuchungen Ã¼ber die Glutathion:H₂O₂-Oxydoreduktase (Glutathion-Peroxydase). Hoppe-Seyler's Zeitschrift FÃ¼r Physiologische Chemie, 1967, 348, 540-552.	1.7	47
43	Kinetic Studies on Arachidonate 5-Lipoxygenase from Rat Basophilic Leukemia Cells. Biological Chemistry Hoppe-Seyler, 1988, 369, 133-142.	1.4	47
44	Evidence for a functional relevance of the selenocysteine residue in mammalian thioredoxin reductase. BioFactors, 1997, 6, 351-358.	2.6	47
45	ATPâ€sensitive association of mortalin with the ILâ€1 receptor type I. BioFactors, 1999, 9, 49-60.	2.6	47
46	Genetic and chemical analyses reveal that trypanothione synthetase but not glutathionylspermidine synthetase is essential for Leishmania infantum. Free Radical Biology and Medicine, 2014, 73, 229-238.	1.3	44
47	Enrichment of hydrophobic proteinsvia Triton X-114 phase partitioning and hydroxyapatite column chromatography for mass spectrometry. Electrophoresis, 2000, 21, 2589-2593.	1.3	39
48	Selenium and reproduction. BioFactors, 1999, 10, 251-256.	2.6	37
49	Looking Back at the Early Stages of Redox Biology. Antioxidants, 2020, 9, 1254.	2.2	37
50	Tryparedoxin and Tryparedoxin Peroxidase. Methods in Enzymology, 2002, 347, 244-258.	0.4	35
51	Glutathion-Peroxidase, III. Spektrale Charakteristika und Versuche zum Reaktionsmechanismus. Hoppe-Seyler's Zeitschrift FÃ¼r Physiologische Chemie, 1971, 352, 170-180.	1.7	26
52	Sequence, heterologous expression and functional characterization of tryparedoxin1 from Crithidia fasciculata. FEBS Journal, 2001, 259, 789-794.	0.2	23
53	Verification of the Interaction of a Tryparedoxin Peroxidase with Tryparedoxin by ESI-MS/MS. Biological Chemistry, 2003, 384, 1305-9.	1.2	22
54	Selenium-Catalyzed Reduction of Hydroperoxides in Chemistry and Biology. Antioxidants, 2021, 10, 1560.	2.2	18

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55	Tryparedoxin and tryparedoxin peroxidase. BioFactors, 2000, 11, 71-72.	2.6	17
56	Proton Transfer and S N 2 Reactions as Steps of Fast Selenol and Thiol Oxidation in Proteins: A Model Molecular Study Based on GPx. ChemPlusChem, 2021, 86, 525-532.	1.3	14
57	Introduction. History of the peroxiredoxins and topical perspectives. Sub-Cellular Biochemistry, 2007, 44, 1-25.	1.0	13
58	Cloning and expression of tryparedoxin I from Crithidia fasciculata. BioFactors, 2000, 11, 67-69.	2.6	9
59	Crystallisation of tryparedoxin I from Crithidia fasciculata. BioFactors, 2000, 11, 73-75.	2.6	8
60	Tryparedoxin II from Crithidia fasciculata. BioFactors, 2000, 11, 65-66.	2.6	5
61	Proton Transfer and S N 2 Reactions as Steps of Fast Selenol and Thiol Oxidation in Proteins: A Model Molecular Study Based on GPx. ChemPlusChem, 2021, 86, 524-524.	1.3	3
62	The impact of thiol peroxidases on redox regulation. Free Radical Research, 2015, , 1-17.	1.5	3
63	Helmut Sies and the compartmentation of hydroperoxide metabolism. Archives of Biochemistry and Biophysics, 2016, 595, 3-8.	1.4	2
64	Enrichment of hydrophobic proteins via Triton X-114 phase partitioning and hydroxyapatite column chromatography for mass spectrometry. , 2000, 21, 2589.		2