

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
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66
all docs

66
docs citations

66
times ranked

6449
citing authors

#	ARTICLE	IF	CITATIONS
1	The glutathione peroxidase family: Discoveries and mechanism. <i>Free Radical Biology and Medicine</i> , 2022, 187, 113-122.	1.3	64
2	Proton Transfer and S N 2 Reactions as Steps of Fast Selenol and Thiol Oxidation in Proteins: A Model Molecular Study Based on GPx. <i>ChemPlusChem</i> , 2021, 86, 525-532.	1.3	14
3	Proton Transfer and S N 2 Reactions as Steps of Fast Selenol and Thiol Oxidation in Proteins: A Model Molecular Study Based on GPx. <i>ChemPlusChem</i> , 2021, 86, 524-524.	1.3	3
4	Selenium-Catalyzed Reduction of Hydroperoxides in Chemistry and Biology. <i>Antioxidants</i> , 2021, 10, 1560.	2.2	18
5	Regulatory Phenomena in the Glutathione Peroxidase Superfamily. <i>Antioxidants and Redox Signaling</i> , 2020, 33, 498-516.	2.5	213
6	Looking Back at the Early Stages of Redox Biology. <i>Antioxidants</i> , 2020, 9, 1254.	2.2	37
7	Selenium and redox signaling. <i>Archives of Biochemistry and Biophysics</i> , 2017, 617, 48-59.	1.4	113
8	Helmut Sies and the compartmentation of hydroperoxide metabolism. <i>Archives of Biochemistry and Biophysics</i> , 2016, 595, 3-8.	1.4	2
9	The impact of thiol peroxidases on redox regulation. <i>Free Radical Research</i> , 2016, 50, 126-142.	1.5	73
10	Selenocysteine oxidation in glutathione peroxidase catalysis: an MS-supported quantum mechanics study. <i>Free Radical Biology and Medicine</i> , 2015, 87, 1-14.	1.3	100
11	The impact of thiol peroxidases on redox regulation. <i>Free Radical Research</i> , 2015, , 1-17.	1.5	3
12	Redox regulation by glutathione needs enzymes. <i>Frontiers in Pharmacology</i> , 2014, 5, 168.	1.6	71
13	Genetic and chemical analyses reveal that trypanothione synthetase but not glutathionylspermidine synthetase is essential for <i>Leishmania infantum</i> . <i>Free Radical Biology and Medicine</i> , 2014, 73, 229-238.	1.3	44
14	Basic Principles and Emerging Concepts in the Redox Control of Transcription Factors. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 2335-2381.	2.5	493
15	Changing Paradigms in Thiology. <i>Methods in Enzymology</i> , 2010, 473, 1-39.	0.4	88
16	The labour pains of biochemical selenology: The history of selenoprotein biosynthesis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2009, 1790, 1389-1403.	1.1	78
17	Catalytic mechanisms and specificities of glutathione peroxidases: Variations of a basic scheme. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2009, 1790, 1486-1500.	1.1	301
18	The Catalytic Site of Glutathione Peroxidases. <i>Antioxidants and Redox Signaling</i> , 2008, 10, 1515-1526.	2.5	151

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19	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.	2.0	113
20	Kinetics of Peroxiredoxins and their Role in the Decomposition of Peroxynitrite. <i>Sub-Cellular Biochemistry</i> , 2007, 44, 83-113.	1.0	115
21	Introduction. History of the peroxiredoxins and topical perspectives. <i>Sub-Cellular Biochemistry</i> , 2007, 44, 1-25.	1.0	13
22	Multiple thioredoxin-mediated routes to detoxify hydroperoxides in <i>Mycobacterium tuberculosis</i> . <i>Archives of Biochemistry and Biophysics</i> , 2004, 423, 182-191.	1.4	151
23	Peroxiredoxins in antioxidant defense and redox regulation. <i>BioFactors</i> , 2003, 19, 3-10.	2.6	53
24	Kinetics and Redox-Sensitive Oligomerisation Reveal Negative Subunit Cooperativity in Tryparedoxin Peroxidase of <i>Trypanosoma brucei brucei</i> . <i>Biological Chemistry</i> , 2003, 384, 619-33.	1.2	86
25	Verification of the Interaction of a Tryparedoxin Peroxidase with Tryparedoxin by ESI-MS/MS. <i>Biological Chemistry</i> , 2003, 384, 1305-9.	1.2	22
26	Versatility of Selenium Catalysis in PHGPx Unraveled by LC/ESI-MS/MS. <i>Biological Chemistry</i> , 2003, 384, 575-88.	1.2	90
27	Tryparedoxin and Tryparedoxin Peroxidase. <i>Methods in Enzymology</i> , 2002, 347, 244-258.	0.4	35
28	Tryparedoxin Peroxidase of <i>Leishmania donovani</i> : Molecular Cloning, Heterologous Expression, Specificity, and Catalytic Mechanism. <i>Archives of Biochemistry and Biophysics</i> , 2002, 397, 324-335.	1.4	120
29	Peroxiredoxins. <i>Biological Chemistry</i> , 2002, 383, 347-64.	1.2	717
30	PHGPx and spermatogenesis. <i>BioFactors</i> , 2001, 14, 213-222.	2.6	50
31	Sequence, heterologous expression and functional characterization of tryparedoxin1 from <i>Crithidia fasciculata</i> . <i>FEBS Journal</i> , 2001, 259, 789-794.	0.2	23
32	The Putative Glutathione Peroxidase Gene of <i>Plasmodium falciparum</i> Codes for a Thioredoxin Peroxidase. <i>Journal of Biological Chemistry</i> , 2001, 276, 7397-7403.	1.6	142
33	Enrichment of hydrophobic proteins via Triton X-114 phase partitioning and hydroxyapatite column chromatography for mass spectrometry. <i>Electrophoresis</i> , 2000, 21, 2589-2593.	1.3	39
34	Selenium, the Element of the Moon, in Life on Earth. <i>IUBMB Life</i> , 2000, 49, 411-420.	1.5	115
35	Tryparedoxin II from <i>Crithidia fasciculata</i> . <i>BioFactors</i> , 2000, 11, 65-66.	2.6	5
36	Cloning and expression of tryparedoxin I from <i>Crithidia fasciculata</i> . <i>BioFactors</i> , 2000, 11, 67-69.	2.6	9

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37	Tryparedoxin and tryparedoxin peroxidase. <i>BioFactors</i> , 2000, 11, 71-72.	2.6	17
38	Crystallisation of tryparedoxin I from <i>Crithidia fasciculata</i> . <i>BioFactors</i> , 2000, 11, 73-75.	2.6	8
39	Enrichment of hydrophobic proteins via Triton X-114 phase partitioning and hydroxyapatite column chromatography for mass spectrometry. , 2000, 21, 2589.		2
40	Activation of active-site cysteine residues in the peroxiredoxin-type tryparedoxin peroxidase of <i>Crithidia fasciculata</i> . <i>FEBS Journal</i> , 1999, 264, 516-524.	0.2	69
41	ATP-sensitive association of mortalin with the IL-1 receptor type I. <i>BioFactors</i> , 1999, 9, 49-60.	2.6	47
42	Selenium and reproduction. <i>BioFactors</i> , 1999, 10, 251-256.	2.6	37
43	mRNA stability and selenocysteine insertion sequence efficiency rank gastrointestinal glutathione peroxidase high in the hierarchy of $\frac{1}{2}$ selenoproteins. <i>FEBS Journal</i> , 1999, 259, 149-157.	0.2	177
44	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.	0.2	144
45	A Unique Cascade of Oxidoreductases Catalyses Trypanothione-Mediated Peroxide Metabolism in <i>Crithidia fasciculata</i> . <i>Biological Chemistry</i> , 1997, 378, 827-36.	1.2	255
46	Redox Regulation of NF-kappa B Activation. <i>Free Radical Biology and Medicine</i> , 1997, 22, 1115-1126.	1.3	788
47	Catalytic Characteristics of Tryparedoxin. <i>FEBS Journal</i> , 1997, 248, 913-918.	0.2	98
48	Lipoic acid increases <i>de novo</i> synthesis of cellular glutathione by improving cystine utilization. <i>BioFactors</i> , 1997, 6, 321-338.	2.6	299
49	Evidence for a functional relevance of the selenocysteine residue in mammalian thioredoxin reductase. <i>BioFactors</i> , 1997, 6, 351-358.	2.6	47
50	A Selenium-Containing Phospholipid-Hydroperoxide Glutathione Peroxidase in <i>Schistosoma mansoni</i> . <i>FEBS Journal</i> , 1996, 238, 838-844.	0.2	60
51	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
52	Superoxide dismutase for therapeutic use: Clinical experience, dead ends and hopes. <i>Molecular and Cellular Biochemistry</i> , 1988, 84, 123-131.	1.4	107
53	Kinetic Studies on Arachidonate 5-Lipoxygenase from Rat Basophilic Leukemia Cells. <i>Biological Chemistry Hoppe-Seyler</i> , 1988, 369, 133-142.	1.4	47
54	The Amino-Acid Sequence of Bovine Glutathione Peroxidase. <i>Hoppe-Seyler's Zeitschrift FÄ¼r Physiologische Chemie</i> , 1984, 365, 195-212.	1.7	142

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55	The Primary Structure of Cu-Zn Superoxide Dismutase from <i>Photobacterium leiognathi</i> : Evidence for a Separate Evolution of Cu-Zn Superoxide Dismutase in Bacteria. Hoppe-Seyler's Zeitschrift für Physiologische Chemie, 1983, 364, 675-690.	1.7	58
56	Superoxide radicals as precursors of mitochondrial hydrogen peroxide. FEBS Letters, 1974, 42, 68-72.	1.3	556
57	Inhibition of lipid peroxidation in isolated inner membrane of rat liver mitochondria by superoxide dismutase. FEBS Letters, 1973, 29, 117-120.	1.3	144
58	Glutathione Peroxidase, V. The kinetic mechanism. Hoppe-Seyler's Zeitschrift für Physiologische Chemie, 1972, 353, 987-1000.	1.7	317
59	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
60	Glutathion-Peroxidase, I. Reindarstellung und Molekulargewichtsbestimmungen. Hoppe-Seyler's Zeitschrift für Physiologische Chemie, 1971, 352, 151-158.	1.7	75
61	Glutathion-Peroxidase, II. Substratspezifität und Hemmbarkeit durch Substratanaloge. Hoppe-Seyler's Zeitschrift für Physiologische Chemie, 1971, 352, 159-169.	1.7	66
62	Glutathion-Peroxidase, III. Spektrale Charakteristika und Versuche zum Reaktionsmechanismus. Hoppe-Seyler's Zeitschrift für Physiologische Chemie, 1971, 352, 170-180.	1.7	26
63	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
64	Untersuchungen über die Glutathion:H ₂ O ₂ -Oxydoreduktase (Glutathion-Peroxydase). Hoppe-Seyler's Zeitschrift für Physiologische Chemie, 1967, 348, 540-552.	1.7	47