

Bengt Mannervik

List of Publications by Year in descending order

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264
papers

16,663
citations

28736

57
h-index

21239

119
g-index

264
all docs

264
docs citations

264
times ranked

11369
citing authors

#	ARTICLE	IF	CITATIONS
1	[59] Glutathione reductase. <i>Methods in Enzymology</i> , 1985, 113, 484-490.	0.4	2,332
2	Glutathione Transferases—Structure and Catalytic Activit. <i>Critical Reviews in Biochemistry</i> , 1988, 23, 283-337.	7.5	1,595
3	[28] Glutathione transferase (human placenta). <i>Methods in Enzymology</i> , 1981, 77, 231-235.	0.4	559
4	The Isoenzymes of Glutathione Transferase. <i>Advances in Enzymology and Related Areas of Molecular Biology</i> , 2006, 57, 357-417.	1.3	482
5	Structure Determination and Refinement of Human Alpha Class Glutathione Transferase A1-1, and a Comparison with the Mu and Pi Class Enzymes. <i>Journal of Molecular Biology</i> , 1993, 232, 192-212.	2.0	453
6	4-Hydroxyalk-2-enals are substrates for glutathione transferase. <i>FEBS Letters</i> , 1985, 179, 267-270.	1.3	391
7	Human glutathione transferase A4-4: an Alpha class enzyme with high catalytic efficiency in the conjugation of 4-hydroxynonenal and other genotoxic products of lipid peroxidation. <i>Biochemical Journal</i> , 1998, 330, 175-179.	1.7	341
8	Glutathione transferases catalyse the detoxication of oxidized metabolites (o-quinones) of catecholamines and may serve as an antioxidant system preventing degenerative cellular processes. <i>Biochemical Journal</i> , 1997, 324, 25-28.	1.7	319
9	Nomenclature for Mammalian Soluble Glutathione Transferases. <i>Methods in Enzymology</i> , 2005, 401, 1-8.	0.4	263
10	Design and Evolution of New Catalytic Activity with an Existing Protein Scaffold. <i>Science</i> , 2006, 311, 535-538.	6.0	240
11	Glutathione transferases: Nomenclature. <i>Biochemical Pharmacology</i> , 1984, 33, 2539-2540.	2.0	239
12	[62] Glutathione transferases from human liver. <i>Methods in Enzymology</i> , 1985, 113, 499-504.	0.4	222
13	Structural analysis of human alpha-class glutathione transferase A1-1 in the apo-form and in complexes with ethacrynic acid and its glutathione conjugate. <i>Structure</i> , 1995, 3, 717-727.	1.6	186
14	Crystal structure of human glyoxalase II and its complex with a glutathione thiolester substrate analogue. <i>Structure</i> , 1999, 7, 1067-1078.	1.6	176
15	Structure-activity relationships and thermal stability of human glutathione transferase P1-1 governed by the H-site residue 105. <i>Journal of Molecular Biology</i> , 1998, 278, 687-698.	2.0	173
16	Human glutathione transferase A4-4 crystal structures and mutagenesis reveal the basis of high catalytic efficiency with toxic lipid peroxidation products. <i>Journal of Molecular Biology</i> , 1999, 288, 427-439.	2.0	171
17	Human Glutathione Transferase A3-3, a Highly Efficient Catalyst of Double-bond Isomerization in the Biosynthetic Pathway of Steroid Hormones. <i>Journal of Biological Chemistry</i> , 2001, 276, 33061-33065.	1.6	168
18	Rat glutathione transferase 8-8, an enzyme efficiently detoxifying 4-hydroxyalk-2-enals. <i>FEBS Letters</i> , 1986, 203, 207-209.	1.3	151

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19	[21] Regression analysis, experimental error, and statistical criteria in the design and analysis of experiments for discrimination between rival kinetic models. <i>Methods in Enzymology</i> , 1982, 87, 370-390.	0.4	149
20	Phospholipid hydroperoxide glutathione peroxidase activity of human glutathione transferases. <i>Biochemical Journal</i> , 1998, 332, 97-100.	1.7	145
21	Purification and characterization of cytoplasmic thioltransferase (glutathione:disulfide) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 138	1.2	138
22	Purification of major basic glutathione transferase isoenzymes from rat liver by use of affinity chromatography and fast protein liquid chromatofocusing. <i>Analytical Biochemistry</i> , 1985, 146, 313-320.	1.1	131
23	Purification of a new glutathione S-transferase (transferase 1/4) from human liver having high activity with benzo(a)pyrene-4,5-oxide. <i>Biochemical and Biophysical Research Communications</i> , 1981, 98, 512-519.	1.0	125
24	Glutathione transferases in rat lung: the presence of transferase 7-7, highly efficient in the conjugation of glutathione with the carcinogenic (+)-7,8-dihydroxy-9,10-oxo-7,8,9,10-tetrahydrobenzo[a]pyrene. <i>Carcinogenesis</i> , 1986, 7, 295-299.	1.3	121
25	Human Class Mu Glutathione Transferases, in Particular Isoenzyme M2-2, Catalyze Detoxication of the Dopamine Metabolite Aminochrome. <i>Journal of Biological Chemistry</i> , 1997, 272, 5727-5731.	1.6	117
26	Divergent Activities of Human Glutathione Transferases in the Bioactivation of Azathioprine. <i>Molecular Pharmacology</i> , 2006, 70, 747-754.	1.0	114
27	Synthesis and Characterization of a Series of Highly Fluorogenic Substrates for Glutathione Transferases, a General Strategy. <i>Journal of the American Chemical Society</i> , 2011, 133, 14109-14119.	6.6	112
28	Identification of Residues in Glutathione Transferase Capable of Driving Functional Diversification in Evolution. <i>Journal of Biological Chemistry</i> , 2003, 278, 8733-8738.	1.6	110
29	Mutation of an evolutionarily conserved tyrosine residue in the active site of a human class Alpha glutathione transferase. <i>FEBS Letters</i> , 1991, 293, 153-155.	1.3	108
30	Glutathione Conjugation of Bay- and Fjord-Region Diol Epoxides of Polycyclic Aromatic Hydrocarbons by Glutathione Transferases M1-1 and P1-1. <i>Chemical Research in Toxicology</i> , 1997, 10, 1221-1227.	1.7	105
31	Glutathione Transferase M2-2 Catalyzes Conjugation of Dopamine and Dopa o-Quinones. <i>Biochemical and Biophysical Research Communications</i> , 2000, 274, 32-36.	1.0	105
32	[64] Glutathione transferase from rat testis. <i>Methods in Enzymology</i> , 1985, 113, 507-510.	0.4	104
33	Expression of class Pi glutathione transferase in human malignant melanoma cells. <i>Carcinogenesis</i> , 1987, 8, 1929-1932.	1.3	104
34	Glutathione Transferases with Novel Active Sites Isolated by Phage Display from a Library of Random Mutants. <i>Journal of Molecular Biology</i> , 1995, 250, 115-122.	2.0	102
35	Glyoxalase I, a zinc metalloenzyme of mammals and yeast. <i>Biochemical and Biophysical Research Communications</i> , 1978, 81, 1235-1240.	1.0	99
36	Purification of glutathione S-transferases from rat lung by affinity chromatography. Evidence for an enzyme form absent in rat liver. <i>Biochemical and Biophysical Research Communications</i> , 1979, 86, 1304-1310.	1.0	85

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37	Inhibitors for distinction of three types of human glutathione transferase. FEBS Letters, 1985, 181, 249-252.	1.3	84
38	The enzymes of glutathione metabolism: an overview. Biochemical Society Transactions, 1987, 15, 717-718.	1.6	81
39	CARCINOGENESIS: Glutathione S-transferase A1-catalysed conjugation of bay and fjord region diol epoxides of polycyclic aromatic hydrocarbons with glutathione. Carcinogenesis, 1996, 17, 1491-1498.	1.3	81
40	Conjugation of Highly Reactive Aflatoxin B1-8,9-Epoxyde Catalyzed by Rat and Human Glutathione Transferases: Estimation of Kinetic Parameters. Biochemistry, 1997, 36, 3056-3060.	1.2	79
41	Differences among human tumor cell lines in the expression of glutathione transferases and other glutathione-linked enzymes. Carcinogenesis, 1990, 11, 1569-1576.	1.3	75
42	Purification of Glutathione S-Transferase from Human Placenta. Acta Chemica Scandinavica, 1979, 33b, 595-596.	0.7	75
43	Involvement of an Active-site Zn ²⁺ Ligand in the Catalytic Mechanism of Human Glyoxalase I. Journal of Biological Chemistry, 1998, 273, 21623-21628.	1.6	74
44	Purification and characterization of glutathione reductase from calf liver. An improved procedure for affinity chromatography on 2,5-ADP-Sepharose 4B. Analytical Biochemistry, 1981, 116, 531-536.	1.1	69
45	Molecular Cloning, Heterologous Expression, and Characterization of Human Glyoxalase II. Journal of Biological Chemistry, 1996, 271, 319-323.	1.6	69
46	Acquired resistance to cisplatin and doxorubicin in a small cell lung cancer cell line is correlated to elevated expression of glutathione-linked detoxification enzymes. Carcinogenesis, 1994, 15, 1167-1173.	1.3	66
47	Error Structure of Enzyme Kinetic Experiments. Implications for Weighting in Regression Analysis of Experimental Data. FEBS Journal, 1976, 69, 61-67.	0.2	64
48	Inhibition of glutathione S-transferases by antimalarial drugs possible implications for circumventing anticancer drug resistance. International Journal of Cancer, 2002, 97, 700-705.	2.3	64
49	A branching reaction mechanism of glutathione reductase. Biochemical and Biophysical Research Communications, 1973, 53, 1151-1158.	1.0	63
50	Benzo(±)pyrene quinones can be generated by lipid peroxidation and are conjugated with glutathione by glutathione S-transferase B from rat liver. Biochemical and Biophysical Research Communications, 1981, 99, 682-690.	1.0	63
51	Mechanism of action of enzymes catalyzing thiol-disulfide interchange. Thioltransferases rather than transhydrogenases. FEBS Letters, 1974, 38, 263-267.	1.3	62
52	Characterization of glyoxalase I purified from pig erythrocytes by affinity chromatography. Biochemical Journal, 1977, 165, 503-509.	1.7	62
53	MOLECULAR ENZYMOLOGY OF THE GLYOXALASE SYSTEM. Drug Metabolism and Drug Interactions, 2008, 23, 13-28.	0.3	62
54	Functional Role of the Lock and Key Motif at the Subunit Interface of Glutathione Transferase P1-1. Journal of Biological Chemistry, 2004, 279, 9586-9596.	1.6	59

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55	Glutathione Transferase: New Model for Glutathione Activation. <i>Chemistry - A European Journal</i> , 2008, 14, 9591-9598.	1.7	59
56	Glutathione transferase mu 2 protects glioblastoma cells against aminochrome toxicity by preventing autophagy and lysosome dysfunction. <i>Autophagy</i> , 2014, 10, 618-630.	4.3	59
57	Selective expression of glutathione transferase isoenzymes in chemically induced preneoplastic rat hepatocyte nodules. <i>FEBS Letters</i> , 1985, 187, 115-120.	1.3	58
58	Evolution of differential substrate specificities in Mu class glutathione transferases probed by DNA shuffling 1 Edited by R. Huber. <i>Journal of Molecular Biology</i> , 1999, 287, 265-276.	2.0	58
59	An essential role of cytosolic thioltransferase in protection of pyruvate kinase from rabbit liver against oxidative inactivation. <i>FEBS Letters</i> , 1983, 152, 114-118.	1.3	56
60	Structural evidence for three different types of glutathione transferase in human tissues. <i>FEBS Letters</i> , 1985, 182, 319-322.	1.3	56
61	Heterologous expression of recombinant human glutathione transferase A1-1 from a hepatoma cell line. <i>Protein Expression and Purification</i> , 1992, 3, 80-84.	0.6	56
62	A Semisynthetic Glutathione Peroxidase with High Catalytic Efficiency. <i>Chemistry and Biology</i> , 2002, 9, 789-794.	6.2	56
63	Inhibition of choline acetyltransferase from bovine caudate nucleus by sulfhydryl reagents and reactivation of the inhibited enzyme. <i>Biochemical Pharmacology</i> , 1970, 19, 2509-2516.	2.0	55
64	A set of inhibitors for discrimination between the basic isozymes of glutathione transferase in rat liver. <i>Biochemical and Biophysical Research Communications</i> , 1983, 114, 829-834.	1.0	55
65	Leukotriene C4 formation catalyzed by three distinct forms of human cytosolic glutathione transferase. <i>Biochemical and Biophysical Research Communications</i> , 1985, 128, 265-270.	1.0	55
66	Mechanism-Based Phage Display Selection of Active-Site Mutants of Human Glutathione Transferase A1-1 Catalyzing SNAr Reactions. <i>Biochemistry</i> , 1997, 36, 11252-11260.	1.2	55
67	New crystal structures of human glutathione transferase A1-1 shed light on glutathione binding and the conformation of the C-terminal helix. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 197-207.	2.5	55
68	Optimized heterologous expression of the human zinc enzyme glyoxalase I. <i>Biochemical Journal</i> , 1996, 314, 463-467.	1.7	54
69	Transmutation of Human Glutathione Transferase A2-2 with Peroxidase Activity into an Efficient Steroid Isomerase. <i>Journal of Biological Chemistry</i> , 2002, 277, 30019-30022.	1.6	53
70	Reduction of thymine hydroperoxide by phospholipid hydroperoxide glutathione peroxidase and glutathione transferases. <i>FEBS Letters</i> , 1997, 410, 210-212.	1.3	52
71	The C-Terminal Region of Human Glutathione Transferase A1-1 Affects the Rate of Glutathione Binding and the Ionization of the Active-Site Tyr9. <i>Biochemistry</i> , 1999, 38, 16268-16275.	1.2	52
72	Tyrosine 50 at the Subunit Interface of Dimeric Human Glutathione Transferase P1-1 Is a Structural Key Residue for Modulating Protein Stability and Catalytic Function. <i>Biochemical and Biophysical Research Communications</i> , 2000, 271, 59-63.	1.0	52

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73	[63] Glutathione transferase isoenzymes from rat liver cytosol. <i>Methods in Enzymology</i> , 1985, 113, 504-507.	0.4	50
74	Transformation of leukotriene A4 methyl ester to leukotriene C4 monomethyl ester by cytosolic rat glutathione transferases. <i>FEBS Letters</i> , 1984, 175, 289-293.	1.3	49
75	Kinetic Characterization of Recombinant Human Glutathione Transferase T1-1, a Polymorphic Detoxication Enzyme. <i>Archives of Biochemistry and Biophysics</i> , 1997, 348, 247-254.	1.4	49
76	Yeast Glyoxalase I Is a Monomeric Enzyme with Two Active Sites. <i>Journal of Biological Chemistry</i> , 2001, 276, 1845-1849.	1.6	49
77	Mechanism of the Glutathione Transferase-Catalyzed Conversion of Antitumor 2-Crotonyloxymethyl-2-cycloalkenones to GSH Adducts. <i>Journal of the American Chemical Society</i> , 2003, 125, 15049-15058.	6.6	49
78	[39] Glyoxalase I (rat liver). <i>Methods in Enzymology</i> , 1981, 77, 297-301.	0.4	48
79	Cloning, Sequencing, and Regulation of the Glutathione Reductase Gene from the Cyanobacterium <i>Anabaena</i> PCC 7120. <i>Journal of Biological Chemistry</i> , 1995, 270, 22882-22889.	1.6	47
80	The Role of Glutathione in the Isomerization of $\hat{1}^{\prime}5$ -Androstene- 3,17-dione Catalyzed by Human Glutathione Transferase A1-1. <i>Journal of Biological Chemistry</i> , 2001, 276, 11698-11704.	1.6	47
81	Active-site Residues Governing High Steroid Isomerase Activity in Human Glutathione Transferase A3-3. <i>Journal of Biological Chemistry</i> , 2002, 277, 16648-16654.	1.6	46
82	Molecular cloning and characterization of the thiolesterase glyoxalase II from <i>Arabidopsis thaliana</i> . <i>Biochemical Journal</i> , 1997, 322, 449-454.	1.7	45
83	Use of Silent Mutations in cDNA Encoding Human Glutathione Transferase M2-2 for Optimized Expression in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 1999, 17, 105-112.	0.6	45
84	Partial Purification and Characterization of Glyoxalase I from Porcine Erythrocytes. <i>FEBS Journal</i> , 1972, 29, 276-281.	0.2	44
85	Purification of glyoxalase I from human erythrocytes by the use of affinity chromatography and separation of the three isoenzymes. <i>Analytical Biochemistry</i> , 1979, 92, 390-393.	1.1	44
86	Probing the active site of glyoxalase I from human erythrocytes by use of the strong reversible inhibitor S-p-bromobenzylglutathione and metal substitutions. <i>Biochemical Journal</i> , 1981, 197, 67-75.	1.7	44
87	Effect of chronic hypoxia on detoxication enzymes in rat liver. <i>Biochemical Pharmacology</i> , 1992, 43, 2421-2426.	2.0	44
88	Five Decades with Glutathione and the GSTome. <i>Journal of Biological Chemistry</i> , 2012, 287, 6072-6083.	1.6	44
89	Glutathione Transferase-M2-2 Secreted from Glioblastoma Cell Protects SH-SY5Y Cells from Aminochrome Neurotoxicity. <i>Neurotoxicity Research</i> , 2015, 27, 217-228.	1.3	44
90	Cytosolic rat liver glutathione transferase 4-4. Primary structure of the protein reveals extensive differences between homologous glutathione transferases of classes Alpha and Mu. <i>FEBS Journal</i> , 1986, 156, 343-350.	0.2	43

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91	The Folding and Stability of Human Alpha Class Glutathione Transferase A1-1 Depend on Distinct Roles of a Conserved N-capping Box and Hydrophobic Staple Motif. <i>Journal of Biological Chemistry</i> , 2001, 276, 32177-32183.	1.6	43
92	The amount and nature of glutathione transferases in rat liver microsomes determined by immunochemical methods. <i>FEBS Letters</i> , 1983, 160, 264-268.	1.3	42
93	The Steady-State Kinetics of Glyoxalase I from Porcine Erythrocytes. Evidence for a Random-Pathway Mechanism Involving One- and Two-Substrate Branches. <i>FEBS Journal</i> , 1973, 37, 270-281.	0.2	41
94	Chromosomal localization of human glutathione transferase genes of classes alpha, mu and pi. <i>Human Genetics</i> , 1989, 82, 338-42.	1.8	41
95	Enzymatic Detoxication, Conformational Selection, and the Role of Molten Globule Active Sites. <i>Journal of Biological Chemistry</i> , 2013, 288, 18599-18611.	1.6	41
96	The Cyclopentenone Product of Lipid Peroxidation, 15-A2t-Isoprostane (8-Isoprostaglandin A2), Is Efficiently Conjugated with Glutathione by Human and Rat Glutathione Transferase A4-4. <i>Chemical Research in Toxicology</i> , 2002, 15, 1114-1118.	1.7	40
97	The polymorphic human glutathione transferase T1-1, the most efficient glutathione transferase in the denitrosation and inactivation of the anticancer drug 1,3-bis(2-chloroethyl)-1-nitrosourea. <i>Biochemical Pharmacology</i> , 2002, 63, 191-197.	2.0	40
98	The Conserved N-capping Box in the Hydrophobic Core of Glutathione S-Transferase P1-1 Is Essential for Refolding. <i>Journal of Biological Chemistry</i> , 1997, 272, 25518-25523.	1.6	39
99	Detoxication of carcinogenic fjord-region diol epoxides of polycyclic aromatic hydrocarbons by glutathione transferase P1-1 variants and glutathione. <i>FEBS Letters</i> , 1998, 438, 206-210.	1.3	39
100	Examination of the transcription factor NtcA-binding motif by in vitro selection of DNA sequences from a random library 1 Edited by K. Nayai. <i>Journal of Molecular Biology</i> , 2000, 301, 783-793.	2.0	39
101	FDA-approved drugs and other compounds tested as inhibitors of human glutathione transferase P1-1. <i>Chemico-Biological Interactions</i> , 2013, 205, 53-62.	1.7	39
102	A steady-state kinetic model of butyrylcholinesterase from horse plasma. <i>Biochemical Journal</i> , 1974, 141, 825-834.	1.7	38
103	Structural Basis for Featuring of Steroid Isomerase Activity in Alpha Class Glutathione Transferases. <i>Journal of Molecular Biology</i> , 2010, 397, 332-340.	2.0	38
104	Purification of glutathione reductase from erythrocytes by the use of affinity chromatography on 2-ADP-sepharose 4-B. <i>FEBS Letters</i> , 1976, 66, 221-224.	1.3	37
105	Catalytic and molecular properties of glyoxalase I. <i>Biochemical Society Transactions</i> , 1993, 21, 515-517.	1.6	37
106	Benzoic acid derivatives induce recovery of catalytic activity in the partially inactive Met208Lys mutant of human glutathione transferase A1-1 Edited by A. R. Fersht. <i>Journal of Molecular Biology</i> , 1999, 288, 787-800.	2.0	36
107	A Conserved Hydrophobic Staple Motif Plays a Crucial Role in the Refolding of Human Glutathione Transferase P1-1. <i>Journal of Biological Chemistry</i> , 2000, 275, 10421-10428.	1.6	36
108	An Ensemble of Theta Class Glutathione Transferases with Novel Catalytic Properties Generated by Stochastic Recombination of Fragments of Two Mammalian Enzymes. <i>Journal of Molecular Biology</i> , 2002, 318, 59-70.	2.0	36

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109	Structural Basis of the Suppressed Catalytic Activity of Wild-type Human Glutathione Transferase T1-1 Compared to its W234R Mutant. <i>Journal of Molecular Biology</i> , 2006, 355, 96-105.	2.0	36
110	Organ distribution of glutathione transferase isoenzymes in the human fetus: differences between liver and extrahepatic tissues. <i>Biochemical Pharmacology</i> , 1986, 35, 1616-1619.	2.0	35
111	Isoenzyme-specific quantitative immunoassays for cytosolic glutathione transferases and measurement of the enzymes in blood plasma from cancer patients and in tumor cell lines. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1994, 1225, 223-230.	1.8	34
112	The reduction of the L-cysteine-glutathione mixed disulfide in rat liver. involvement of an enzyme catalyzing thiol-disulfide interchange. <i>FEBS Letters</i> , 1970, 7, 26-28.	1.3	33
113	Purification of glutathione reductase from porcine erythrocytes by the use of affinity chromatography on 2- ϵ ,5- ϵ -ADP-Sepharose 4B and crystallization of the enzyme. <i>Analytical Biochemistry</i> , 1979, 98, 335-340.	1.1	33
114	An essential histidine residue in the catalytic mechanism of mammalian glutathione reductase. <i>Biochemical and Biophysical Research Communications</i> , 1978, 83, 558-564.	1.0	32
115	Differences in the occurrence of glutathione transferase isoenzymes in rat lung and liver. <i>Biochemical and Biophysical Research Communications</i> , 1985, 127, 80-86.	1.0	32
116	Synthesis and characterization of 6-chloroacetyl-2-dimethylaminonaphthalene as a fluorogenic substrate and a mechanistic probe for glutathione transferases. <i>Analytical Biochemistry</i> , 2002, 311, 171-178.	1.1	32
117	Mapping of Amino Acid Substitutions Conferring Herbicide Resistance in Wheat Glutathione Transferase. <i>ACS Synthetic Biology</i> , 2015, 4, 221-227.	1.9	32
118	The High Activity of Rat Glutathione Transferase 8 α with Alkene Substrates Is Dependent on a Glycine Residue in the Active Site. <i>Journal of Biological Chemistry</i> , 1995, 270, 29705-29709.	1.6	30
119	Analysis of the Role of the Active Site Tyrosine in Human Glutathione Transferase A1-1 by Unnatural Amino Acid Mutagenesis. <i>Journal of the American Chemical Society</i> , 1998, 120, 451-452.	6.6	30
120	Disorder-to-Order Transition of the Active Site of Human Class Pi Glutathione Transferase, GST P1-1. <i>Biochemistry</i> , 2001, 40, 11660-11669.	1.2	30
121	Enzymatic catalysis of the reversible sulfitolysis of glutathione disulfide and the biological reduction of thiosulfate esters. <i>Archives of Biochemistry and Biophysics</i> , 1974, 163, 283-289.	1.4	29
122	Inhibition of glutathione reductase by interaction of 2,4,6-trinitrobenzenesulfonate with the active-site dithiol. <i>FEBS Letters</i> , 1979, 98, 263-266.	1.3	29
123	Glutathione conjugation of trans-3,4-dihydroxy 1,2-epoxy 1,2,3,4-tetrahydrobenzo[c]phenanthrene isomers by human glutathione transferases. <i>Carcinogenesis</i> , 1992, 13, 1549-1555.	1.3	29
124	Mutagenesis of residue 157 in the active site of human glyoxalase I. <i>Biochemical Journal</i> , 1997, 328, 231-235.	1.7	29
125	Catalytic Activities of Human Alpha Class Glutathione Transferases toward Carcinogenic Dibenzo[a,]pyrene Diol Epoxides. <i>Chemical Research in Toxicology</i> , 2002, 15, 825-831.	1.7	29
126	Incorporation of a single His residue by rational design enables thiol-ester hydrolysis by human glutathione transferase A1-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 13163-13167.	3.3	29

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127	Alternative mutations of a positively selected residue elicit gain or loss of functionalities in enzyme evolution. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4876-4881.	3.3	29
128	Mechanism of Glutathione Transferase P1-1-Catalyzed Activation of the Prodrug Canfosfamide (TLK286,) Tj ETQq0 0,0 rgBT /Overlock 1	1.2	29
129	Structural Determinants of Glutathione Transferases with Azathioprine Activity Identified by DNA Shuffling of Alpha Class Members. Journal of Molecular Biology, 2008, 375, 1365-1379.	2.0	28
130	Crystallization of GST2, a human class alpha glutathione transferase. Journal of Molecular Biology, 1989, 208, 369-370.	2.0	26
131	Engineering of a metal coordinating site into human glutathione transferase M1-1 based on immobilized metal ion affinity chromatography of homologous rat enzymes. Protein Engineering, Design and Selection, 1994, 7, 1115-1119.	1.0	26
132	Directed enzyme evolution guided by multidimensional analysis of substrate-activity space. Protein Engineering, Design and Selection, 2004, 17, 49-55.	1.0	26
133	Interactions Between Odorants and Glutathione Transferases in the Human Olfactory Cleft. Chemical Senses, 2020, 45, 645-654.	1.1	26
134	Inhibition of yeast S-lactylglutathione lyase (glyoxalase I) by sulfhydryl reagents. Archives of Biochemistry and Biophysics, 1970, 137, 128-132.	1.4	25
135	Nonlinear regression methods in design of experiments and mathematical modelling. Applications to the analysis of the steady-state kinetics of glutathione reductase. BioSystems, 1975, 7, 101-119.	0.9	25
136	Relaxed thiol substrate specificity of glutathione transferase effected by a non-substrate glutathione derivative. FEBS Letters, 1988, 231, 155-158.	1.3	25
137	On the nature of leukotriene C4 synthase in human platelets. Archives of Biochemistry and Biophysics, 1992, 294, 70-74.	1.4	25
138	Kinetic properties of missense mutations in patients with glutathione synthetase deficiency. Biochemical Journal, 2000, 349, 275-279.	1.7	25
139	Targeting human glutathione transferase A3-3 attenuates progesterone production in human steroidogenic cells. Biochemical Journal, 2008, 414, 103-109.	1.7	25
140	Differences among allelic variants of human glutathione transferase A2-2 in the activation of azathioprine. Chemo-Biological Interactions, 2010, 186, 110-117.	1.7	25
141	Cysteine residues are not essential for the catalytic activity of human class Mu glutathione transferase M1a-1a. FEBS Letters, 1991, 293, 156-159.	1.3	24
142	Functionally diverging molecular quasi-species evolve by crossing two enzymes. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10866-10870.	3.3	24
143	Evolution of Negative Cooperativity in Glutathione Transferase Enabled Preservation of Enzyme Function. Journal of Biological Chemistry, 2016, 291, 26739-26749.	1.6	24
144	Screening for recombinant glutathione transferases active with monochlorobimane. Analytical Biochemistry, 2002, 309, 102-108.	1.1	23

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145	Structural determinants in domain II of human glutathione transferase M2 ^a govern the characteristic activities with aminochrome, 2 ^a -cyano ^a 1, 3 ^a -dimethyl ^a 1 ^a -nitrosoguanidine, and 1, 2 ^a -dichloro ^a 4 ^a -nitrobenzene. <i>Protein Science</i> , 1999, 8, 2742-2750.	3.1	23
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