# Bengt Mannervik

List of Publications by Year
in descending order



| 264 | 16,663 | 25034 57 | 18647 119 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 264 | 264 | 264 | 10327 |
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| all docs | docs citations | times ranked | citing authors |

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| 1 | [59] Glutathione reductase. Methods in Enzymology, 1985, 113, 484-490. | 1.0 | 2,332 |
| 2 | Glutathione Transferasesâ€"Structure and Catalytic Activit. Critical Reviews in Biochemistry, 1988, 23, 283-337. | 7.5 | 1,595 |
| 3 | [28] Glutathione transferase (human placenta). Methods in Enzymology, 1981, 77, 231-235. | 1.0 | 559 |
| 4 | The Isoenzymes of Glutathione Transferase. Advances in Enzymology and Related Areas of Molecular Biology, 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. Journal of Molecular Biology, 1993, 232, 192-212. | 4.2 | 453 |
| 6 | 4-Hydroxyalk-2-enals are substrates for glutathione transferase. FEBS Letters, 1985, 179, 267-270. | 2.8 | 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. Biochemical Journal, 1998, 330, 175-179. | 3.7 | 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. Biochemical Journal, 1997, 324, 25-28. | 3.7 | 319 |
| 9 | Nomenclature for Mammalian Soluble Glutathione Transferases. Methods in Enzymology, 2005, 401, 1-8. | 1.0 | 263 |
| 10 | Design and Evolution of New Catalytic Activity with an Existing Protein Scaffold. Science, 2006, 311, 535-538. | 12.6 | 240 |
| 11 | Glutathione transferases: Nomenclature. Biochemical Pharmacology, 1984, 33, 2539-2540. | 4.4 | 239 |
| 12 | [62] Glutathione transferases from human liver. Methods in Enzymology, 1985, 113, 499-504. | 1.0 | 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. Structure, 1995, 3, 717-727. | 3.3 | 186 |
| 14 | Crystal structure of human glyoxalase II and its complex with a glutathione thiolester substrate analogue. Structure, 1999, 7, 1067-1078. | 3.3 | 176 |
| 15 | Structure-activity relationships and thermal stability of human glutathione transferase P1-1 governed by the H-site residue 105. Journal of Molecular Biology, 1998, 278, 687-698. | 4.2 | 173 |
| 16 | Human glutathione transferase A4-4 crystal structures and mutagenesis reveal the basis of high catalytic efficiency with toxic lipid peroxidation products. Journal of Molecular Biology, 1999, 288, 427-439. | 4.2 | 171 |
| 17 | Human Glutathione Transferase A3-3, a Highly Efficient Catalyst of Double-bond Isomerization in the Biosynthetic Pathway of Steroid Hormones. Journal of Biological Chemistry, 2001, 276, 33061-33065. | 3.4 | 168 |
| 18 | Rat glutathione transferase 8-8, an enzyme efficiently detoxifying 4-hydroxyalk-2-enals. FEBS Letters, 1986, 203, 207-209. | 2.8 | 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. Methods in Enzymology, 1982, 87, 370-390. | 1.0 | 149 |
| 20 | Phospholipid hydroperoxide glutathione peroxidase activity of human glutathione transferases. Biochemical Journal, 1998, 332, 97-100. | 3.7 | 145 |
| 21 | Purification and characterization of cytoplasmic thioltransferase (glutathione:disulfide) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 66 | 2.5 | 138 |
| 22 | Purification of major basic glutathione transferase isoenzymes from rat liver by use of affinity chromatography and fast protein liquid chromatofocusing. Analytical Biochemistry, 1985, 146, 313-320. | 2.4 | 131 |
| 23 | Purification of a new glutathione S-transferase (transferase Î¼) from human liver having high activity with benzo(Î±)pyrene-4,5-oxide. Biochemical and Biophysical Research Communications, 1981, 98, 512-519. | 2.1 | 125 |
| 24 | Glutathione transferases in rat lung: the presence of transferase 7-7, highly efficient in the conjugation of glutathione with the carcinogenic (+)-7Î²,8Î±-dihydroxy-9Î±,10Î±-oxy-7,8,9,10-tetrahydrobenzo[a]pyrene. Carcinogenesis, 1986, 7, 295-299. | 2.8 | 121 |
| 25 | Human Class Mu Glutathione Transferases, in Particular Isoenzyme M2-2, Catalyze Detoxication of the Dopamine Metabolite Aminochrome. Journal of Biological Chemistry, 1997, 272, 5727-5731. | 3.4 | 117 |
| 26 | Divergent Activities of Human Glutathione Transferases in the Bioactivation of Azathioprine. Molecular Pharmacology, 2006, 70, 747-754. | 2.3 | 114 |
| 27 | Synthesis and Characterization of a Series of Highly Fluorogenic Substrates for Glutathione Transferases, a General Strategy. Journal of the American Chemical Society, 2011, 133, 14109-14119. | 13.7 | 112 |
| 28 | Identification of Residues in Glutathione Transferase Capable of Driving Functional Diversification in Evolution. Journal of Biological Chemistry, 2003, 278, 8733-8738. | 3.4 | 110 |
| 29 | Mutation of an evolutionarily conserved tyrosine residue in the active site of a human class Alpha glutathione transferase. FEBS Letters, 1991, 293, 153-155. | 2.8 | 108 |
| 30 | Glutathione Conjugation of Bay- and Fjord-Region Diol Epoxides of Polycyclic Aromatic Hydrocarbons by Glutathione Transferases M1-1 and P1-1. Chemical Research in Toxicology, 1997, 10, 1221-1227. | 3.3 | 105 |
| 31 | Glutathione Transferase M2-2 Catalyzes Conjugation of Dopamine and Dopa o-Quinones. Biochemical and Biophysical Research Communications, 2000, 274, 32-36. | 2.1 | 105 |
| 32 | [64] Glutathione transferase from rat testis. Methods in Enzymology, 1985, 113, 507-510. | 1.0 | 104 |
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| 35 | Glyoxalase I, a zinc metalloenzyme of mammals and yeast. Biochemical and Biophysical Research Communications, 1978, 81, 1235-1240. | 2.1 | 99 |
| 36 | Purification of glutathione S-transferases from rat lung by affinity chromatography. Evidence for an enzyme form absent in rat liver. Biochemical and Biophysical Research Communications, 1979, 86, 1304-1310. | 2.1 | 85 |

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| 37 | Inhibitors for distinction of three types of human glutathione transferase. FEBS Letters, 1985, 181, 249-252. | 2.8 | 84 |
| 38 | The enzymes of glutathione metabolism: an overview. Biochemical Society Transactions, 1987, 15, 717-718. | 3.4 | 81 |
| 39 | CARCINOGENESIS: Glutathione S-transferase A1â€“1-catalysed conjugation of bay and fjord region diol epoxides of polycyclic aromatic hydrocarbons with glutathione. Carcinogenesis, 1996, 17, 1491-1498. | 2.8 | 81 |
| 40 | Conjugation of Highly Reactive Aflatoxin B1exo-8,9-Epoxide Catalyzed by Rat and Human Glutathione Transferases:Â Estimation of Kinetic Parametersâ€. Biochemistry, 1997, 36, 3056-3060. | 2.5 | 79 |
| 41 | Differences among human tumor cell lines in the expression of glutathione transferases and other glutathione-linked enzymes. Carcinogenesis, 1990, 11, 1569-1576. | 2.8 | 75 |
| 42 | Purification of Glutathione S-Transferase from Human Placenta.. Acta Chemica Scandinavica, 1979, 33b, 595-596. | 0.7 | 75 |
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| 44 | Purification and characterization of glutathione reductase from calf liver. An improved procedure for affinity chromatography on 2â€²,5â€²-ADP-Sepharose 4B. Analytical Biochemistry, 1981, 116, 531-536. | 2.4 | 69 |
| 45 | Molecular Cloning, Heterologous Expression, and Characterization of Human Glyoxalase II. Journal of Biological Chemistry, 1996, 271, 319-323. | 3.4 | 69 |
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| 48 | Inhibition of glutathione S-transferases by antimalarial drugs possible implications for circumventing anticancer drug resistance. International Journal of Cancer, 2002, 97, 700-705. | 5.1 | 64 |
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| 61 | Heterologous expression of recombinant human glutathione transferase A1-1 from a hepatoma cell line. Protein Expression and Purification, 1992, 3, 80-84. | 1.3 | 56 |
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| 64 | A set of inhibitors for discrimination between the basic isozymes of glutathione transferase in rat liver. Biochemical and Biophysical Research Communications, 1983, 114, 829-834. | 2.1 | 55 |
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| 81 | Active-site Residues Governing High Steroid Isomerase Activity in Human Glutathione Transferase A3-3. Journal of Biological Chemistry, 2002, 277, 16648-16654. | 3.4 | 46 |
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| 98 | The Conserved N-capping Box in the Hydrophobic Core of Glutathione S-Transferase P1â€“1 Is Essential for Refolding. Journal of Biological Chemistry, 1997, 272, 25518-25523. | 3.4 | 39 |
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| 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. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1994, 1225, 223-230. | 3.8 | 34 |
| 112 | The reduction of the L-cysteine-glutathione mixed disulfide in rat liver. involvement of an enzyme catalyzing thiol-disulfide interchange. FEBS Letters, 1970, 7, 26-28. | 2.8 | 33 |
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