

# J Paul G Malthouse

## List of Publications by Year in descending order

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47  
papers

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623574

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#	ARTICLE	IF	CITATIONS
1	A Nuclear Magnetic Resonance-Based Demonstration of Substantial Oxidative L-Alanine Metabolism and L-Alanine-Enhanced Glucose Metabolism in a Clonal Pancreatic $\beta$ -Cell Line : Metabolism of L-Alanine Is Important to the Regulation of Insulin Secretion. <i>Diabetes</i> , 2002, 51, 1714-1721.	0.3	124
2	Structure and stereochemistry of tetrahedral inhibitor complexes of papain by direct NMR observation. <i>Journal of the American Chemical Society</i> , 1983, 105, 6324-6325.	6.6	55
3	Carbon-13 NMR study of the ionizations within a trypsin-chloromethyl ketone inhibitor complex. <i>Biochemistry</i> , 1985, 24, 3478-3487.	1.2	49
4	Detection of a tetrahedral adduct in a trypsin-chloromethyl ketone specific inhibitor complex by carbon-13 NMR. <i>Journal of the American Chemical Society</i> , 1983, 105, 1685-1686.	6.6	47
5	Carbon-13 NMR study of the stereospecificity of the thiohemiacetals formed on inhibition of papain by specific enantiomeric aldehydes. <i>Biochemistry</i> , 1986, 25, 2293-2298.	1.2	45
6	NMR and Alanine Scan Studies of Glucose-dependent Insulinotropic Polypeptide in Water. <i>Journal of Biological Chemistry</i> , 2006, 281, 16370-16376.	1.6	37
7	The bioactive conformation of glucose-dependent insulinotropic polypeptide by NMR and CD spectroscopy. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007, 68, 92-99.	1.5	32
8	Evidence that binding to the S2-subsite of papain may be coupled with catalytically relevant structural change involving the cysteine-25-histidine-159 diad. Kinetics of the reaction of papain with a two-protonic-state reactivity probe containing a hydrophobic side chain. <i>Biochemical Journal</i> , 1979, 183, 223-231.	1.7	22
9	NMR structure of the glucose-dependent insulinotropic polypeptide fragment, GIP(1-30)amide. <i>Biochemical and Biophysical Research Communications</i> , 2004, 325, 281-286.	1.0	21
10	Crystal structure of $\beta$ -chymotrypsin bound to a peptidyl chloromethyl ketone inhibitor. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000, 56, 280-286.	2.5	20
11	Prolonged L-alanine exposure induces changes in metabolism, Ca <sup>2+</sup> handling and desensitization of insulin secretion in clonal pancreatic $\beta$ -cells. <i>Clinical Science</i> , 2009, 116, 341-351.	1.8	20
12	<sup>13</sup> C and <sup>1</sup> H NMR Studies of Ionizations and Hydrogen Bonding in Chymotrypsin-Glyoxal Inhibitor Complexes. <i>Journal of Biological Chemistry</i> , 2007, 282, 7852-7861.	1.6	18
13	<sup>13</sup> C NMR Study of How the Oxyanion pKa Values of Subtilisin and Chymotrypsin Tetrahedral Adducts Are Affected by Different Amino Acid Residues Binding in Enzyme Subsites S1-S4. <i>Biochemistry</i> , 1999, 38, 6187-6194.	1.2	15
14	<sup>13</sup> C-NMR study of the inhibition of $\beta$ -chymotrypsin by a tripeptide-glyoxal inhibitor. <i>Biochemical Journal</i> , 2002, 362, 339-347.	1.7	15
15	Importance of Tetrahedral Intermediate Formation in the Catalytic Mechanism of the Serine Proteases Chymotrypsin and Subtilisin. <i>Biochemistry</i> , 2012, 51, 6164-6170.	1.2	14
16	Ionisations within a subtilisin-glyoxal inhibitor complex. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1749, 33-41.	1.1	13
17	Determination of the ionization state of the active-site histidine in a subtilisin-(chloromethane) Tj ETQq1 1 0.784314 rgBT / Overlock 10	1.7	12
18	A substrate-induced change in the stereospecificity of the serine-hydroxymethyltransferase-catalysed exchange of the alpha-protons of amino acids. Evidence for a second catalytic site. <i>FEBS Journal</i> , 1998, 252, 113-117.	0.2	12

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19	Intramolecular Inhibition by Enzyme of Site-Specific Modification Reactions can Mask $pK_a$ Values Characteristic of the Reaction Pathway: Do the Side Chains of Aspartic Acid-158 and Lysine-156 of Papain Form an Ion-Pair?. <i>Biochemical Society Transactions</i> , 1978, 6, 250-252.	1.6	11
20	$^{13}\text{C}$ -NMR study of the inhibition of $\hat{\text{I}}$ -chymotrypsin by a tripeptide-glyoxal inhibitor. <i>Biochemical Journal</i> , 2002, 362, 339.	1.7	10
21	An NMR study of alterations in $[1-^{13}\text{C}]$ glucose metabolism in C6 glioma cells by gliotoxic amino acids. <i>Neurochemistry International</i> , 2003, 42, 441-448.	1.9	10
22	Determination of the Structure of Tetrahedral Transition State Analogues Bound at the Active Site of Chymotrypsin Using $^{18}\text{O}$ and $^2\text{H}$ Isotope Shifts in the $^{13}\text{C}$ NMR Spectra of Glyoxal Inhibitors. <i>Biochemistry</i> , 2007, 46, 12868-12874.	1.2	10
23	Conformational, receptor interaction and alanine scan studies of glucose-dependent insulinotropic polypeptide. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 882-888.	1.1	10
24	Gliotoxins disrupt alanine metabolism and glutathione production in C6 glioma cells: a $^{13}\text{C}$ NMR spectroscopic study. <i>Neurochemistry International</i> , 2004, 45, 1155-1165.	1.9	9
25	NMR Study of the Inhibition of Pepsin by Glyoxal Inhibitors: Mechanism of Tetrahedral Intermediate Stabilization by the Aspartyl Proteases. <i>Biochemistry</i> , 2007, 46, 11205-11215.	1.2	9
26	Hemiacetal stabilization in a chymotrypsin inhibitor complex and the reactivity of the hydroxyl group of the catalytic serine residue of chymotrypsin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 1119-1127.	1.1	9
27	Quantifying tetrahedral adduct formation and stabilization in the cysteine and the serine proteases. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 1382-1391.	1.1	8
28	Enzymatic synthesis of $\hat{\text{I}}$ -deuterated amino acids. <i>Biochemical Society Transactions</i> , 1996, 24, 133S-133S.	1.6	7
29	A $^{13}\text{C}$ -NMR study of the inhibition of papain by a dipeptide-glyoxal inhibitor. <i>Biochemical Journal</i> , 2002, 366, 983-987.	1.7	7
30	Kinetic Studies of the Effect of pH on the Trypsin-Catalyzed Hydrolysis of $N$ - $\hat{\text{I}}$ -benzyloxycarbonyl-L-lysine-p-nitroanilide: Mechanism of Trypsin Catalysis. <i>ACS Omega</i> , 2020, 5, 4915-4923.	1.6	7
31	The synthesis and characterisation of a glyoxal inhibitor of chymotrypsin. <i>Biochemical Society Transactions</i> , 1996, 24, 129S-129S.	1.6	6
32	Enzymatic synthesis of isotopically labelled serine and tryptophan for application in peptide synthesis. <i>Biochemical Society Transactions</i> , 1997, 3, 361-366.		6
33	Oxyanion and tetrahedral intermediate stabilisation by subtilisin: Detection of a new tetrahedral adduct. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009, 1794, 1251-1258.	1.1	6
34	Substituted Pyridines as Two-Protonic-State Reactivity Probes, Reporter-Group Delivery Vehicles and Labelling Reagents for the Study of Thiol Enzymes. <i>Biochemical Society Transactions</i> , 1978, 6, 261-263.	1.6	5
35	The stereospecificity and catalytic efficiency of the tryptophan synthase-catalysed exchange of the $\hat{\text{I}}$ -protons of amino acids. <i>Biochemical Journal</i> , 2004, 381, 847-852.	1.7	5
36	Kinetic analysis of the exchange of the $\hat{\text{I}}$ -protons of amino acids by pyridoxal-phosphate-dependent enzymes. <i>Biochemical Society Transactions</i> , 1996, 24, 134S-134S.	1.6	4

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37	Proof that serine hydroxymethyltransferase retains its specificity for the pro-2S proton of glycine in the absence of tetrahydrofolate. <i>Biochemical Society Transactions</i> , 1996, 24, 132S-132S.	1.6	4
38	79 a comparison of some of the methods available for analysing the substrate dependence of the exchange of the $\alpha$ -protons of amino acids catalysed by pyridoxal-phosphate-dependent enzymes. <i>Biochemical Society Transactions</i> , 1998, 26, S66-S66.	1.6	4
39	Using NMR as a Probe of Protein Structure and Function. <i>Biochemical Society Transactions</i> , 1999, 27, 701-713.	1.6	4
40	Biosynthesis of isotopically enriched $\alpha$ -serine. <i>Biochemical Society Transactions</i> , 1988, 16, 179-180.	1.6	3
41	A study of the tryptophan synthase catalysed H/D exchange of the $\alpha$ -protons of amino acids. <i>Biochemical Society Transactions</i> , 1994, 22, 43S-43S.	1.6	3
42	Stereospecificity of $\alpha$ -proton exchange reactions catalysed by pyridoxal-5-phosphate-dependent enzymes. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003, 1647, 138-142.	1.1	3
43	Studies on Thiol Proteinases with Fluorescent Probes. <i>Biochemical Society Transactions</i> , 1978, 6, 217-220.	1.6	2
44	Impact of the gliotoxin l-serine-O-sulphate on cellular metabolism in cultured rat astrocytes. <i>Neurochemistry International</i> , 2006, 48, 739-745.	1.9	2
45	pH stability of the stromelysin-1 catalytic domain and its mechanism of interaction with a glyoxal inhibitor. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 1394-1403.	1.1	2
46	A new lysine derived glyoxal inhibitor of trypsin, its properties and utilization for studying the stabilization of tetrahedral adducts by trypsin. <i>Biochemistry and Biophysics Reports</i> , 2016, 5, 272-284.	0.7	0
47	Synthesis of 2-guanidinyll pyridines and their trypsin inhibition and docking. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115612.	1.4	0