J Paul G Malthouse

List of Publications by Year
in descending order

47	737	623574	552653
papers	citations	14 h-index	26 g-index

47	47	47	509
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Kinetic Studies of the Effect of pH on the Trypsin-Catalyzed Hydrolysis of N-Î±-benzyloxycarbonyl-<scp>l</scp>-lysine-p-nitroanilide: Mechanism of Trypsin Catalysis. ACS Omega, 2020, 5, 4915-4923.	1.6	7
2	Synthesis of 2-guanidinyl pyridines and their trypsin inhibition and docking. Bioorganic and Medicinal Chemistry, 2020, 28, 115612.	1.4	0
3	A new lysine derived glyoxal inhibitor of trypsin, its properties and utilization for studying the stabilization of tetrahedral adducts by trypsin. Biochemistry and Biophysics Reports, 2016, 5, 272-284.	0.7	0
4	Quantifying tetrahedral adduct formation and stabilization in the cysteine and the serine proteases. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 1382-1391.	1.1	8
5	Hemiacetal stabilization in a chymotrypsin inhibitor complex and the reactivity of the hydroxyl group of the catalytic serine residue of chymotrypsin. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 1119-1127.	1.1	9
6	Importance of Tetrahedral Intermediate Formation in the Catalytic Mechanism of the Serine Proteases Chymotrypsin and Subtilisin. Biochemistry, 2012, 51, 6164-6170.	1.2	14
7	Conformational, receptor interaction and alanine scan studies of glucose-dependent insulinotropic polypeptide. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 882-888.	1.1	10
8	pH stability of the stromelysin-1 catalytic domain and its mechanism of interaction with a glyoxal inhibitor. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 1394-1403.	1.1	2
9	Oxyanion and tetrahedral intermediate stabilisation by subtilisin: Detection of a new tetrahedral adduct. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 1251-1258.	1.1	6
10	Prolonged L-alanine exposure induces changes in metabolism, Ca2+ handling and desensitization of insulin secretion in clonal pancreatic Î²-cells. Clinical Science, 2009, 116, 341-351.	1.8	20
11	13C and 1H NMR Studies of Ionizations and Hydrogen Bonding in Chymotrypsin-Glyoxal Inhibitor Complexes. Journal of Biological Chemistry, 2007, 282, 7852-7861.	1.6	18
12	NMR Study of the Inhibition of Pepsin by Glyoxal Inhibitors:â€‰ Mechanism of Tetrahedral Intermediate Stabilization by the Aspartyl Proteases. Biochemistry, 2007, 46, 11205-11215.	1.2	9
13	Determination of the Structure of Tetrahedral Transition State Analogues Bound at the Active Site of Chymotrypsin Using ¹⁸O and ²H Isotope Shifts in the ¹³C NMR Spectra of Glyoxal Inhibitors. Biochemistry, 2007, 46, 12868-12874.	1.2	10
14	The bioactive conformation of glucose-dependent insulinotropic polypeptide by NMR and CD spectroscopy. Proteins: Structure, Function and Bioinformatics, 2007, 68, 92-99.	1.5	32
15	Impact of the gliotoxin l-serine-O-sulphate on cellular metabolism in cultured rat astrocytes. Neurochemistry International, 2006, 48, 739-745.	1.9	2
16	NMR and Alanine Scan Studies of Glucose-dependent Insulinotropic Polypeptide in Water. Journal of Biological Chemistry, 2006, 281, 16370-16376.	1.6	37
17	Ionisations within a subtilisinâ€“glyoxal inhibitor complex. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2005, 1749, 33-41.	1.1	13
18	The stereospecificity and catalytic efficiency of the tryptophan synthase-catalysed exchange of the Î±-protons of amino acids. Biochemical Journal, 2004, 381, 847-852.	1.7	5

#	Article	IF	Citations
19	NMR structure of the glucose-dependent insulinotropic polypeptide fragment, GIP(1â€“30)amide. Biochemical and Biophysical Research Communications, 2004, 325, 281-286.	1.0	21
20	Gliotoxins disrupt alanine metabolism and glutathione production in C6 glioma cells: a 13C NMR spectroscopic study. Neurochemistry International, 2004, 45, 1155-1165.	1.9	9
21	Stereospecificity of Î±-proton exchange reactions catalysed by pyridoxal-5â€²-phosphate-dependent enzymes. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2003, 1647, 138-142.	1.1	3
22	An NMR study of alterations in [1-13C]glucose metabolism in C6 glioma cells by gliotoxic amino acids. Neurochemistry International, 2003, 42, 441-448.	1.9	10
23	A Nuclear Magnetic Resonance-Based Demonstration of Substantial Oxidative L-Alanine Metabolism and L-Alanine-Enhanced Glucose Metabolism in a Clonal Pancreatic Â-Cell Line : Metabolism of L-Alanine Is Important to the Regulation of Insulin Secretion. Diabetes, 2002, 51, 1714-1721.	0.3	124
24	13C-NMR study of the inhibition of Î´-chymotrypsin by a tripeptide-glyoxal inhibitor. Biochemical Journal, 2002, 362, 339.	1.7	10
25	A 13C-NMR study of the inhibition of papain by a dipeptide-glyoxal inhibitor. Biochemical Journal, 2002, 366, 983-987.	1.7	7
26	13C-NMR study of the inhibition of Î´-chymotrypsin by a tripeptide-glyoxal inhibitor. Biochemical Journal, 2002, 362, 339-347.	1.7	15
27	Crystal structure of Î´-chymotrypsin bound to a peptidyl chloromethyl ketone inhibitor. Acta Crystallographica Section D: Biological Crystallography, 2000, 56, 280-286.	2.5	20
28	13C NMR Study of How the Oxyanion pKaValues of Subtilisin and Chymotrypsin Tetrahedral Adducts Are Affected by Different Amino Acid Residues Binding in Enzyme Subsites S1â^'S4â€,â€¡. Biochemistry, 1999, 38, 6187-6194.	1.2	15
29	Using NMR as a Probe of Protein Structure and Function. Biochemical Society Transactions, 1999, 27, 701-713.	1.6	4
30	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. FEBS Journal, 1998, 252, 113-117.	0.2	12
31	79 a comparison of some of the methods available for analysing the substrate dependence of the exchange of the Î±-protons of amino acids catalysed by pyridoxal-phosphate-dependent enzymes. Biochemical Society Transactions, 1998, 26, S66-S66.	1.6	4
32	Enzymatic synthesis of isotopically labelled serine and tryptophan for application in peptide synthesis. , 1997, 3, 361-366.		6
33	Determination of the ionization state of the active-site histidine in a subtilisin-(chloromethane) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.7	12
34	The synthesis and characterisation of a glyoxal inhibitor of chymotrypsin. Biochemical Society Transactions, 1996, 24, 129S-129S.	1.6	6
35	Kinetic analysis of the exchange of the Î±-protons of amino acids by pyridoxal-phosphate-dependent enzymes. Biochemical Society Transactions, 1996, 24, 134S-134S.	1.6	4
36	Enzymatic synthesis of Î±-deuterated amino acids. Biochemical Society Transactions, 1996, 24, 133S-133S.	1.6	7

#	Article	IF	Citations
37	Proof that serine hydroxymethyltransferase retains its specificity for the pro-2S proton of glycine in the absence of tetrahydrofolate. Biochemical Society Transactions, 1996, 24, 132S-132S.	1.6	4
38	A study of the tryptophan synthase catalysed H/D exchange of the Î±-protons of amino acids. Biochemical Society Transactions, 1994, 22, 43S-43S.	1.6	3
39	Biosynthesis of isotopically enriched <scp>l</scp>-serine. Biochemical Society Transactions, 1988, 16, 179-180.	1.6	3
40	Carbon-13 NMR study of the stereospecificity of the thiohemiacetals formed on inhibition of papain by specific enantiomeric aldehydes. Biochemistry, 1986, 25, 2293-2298.	1.2	45
41	Carbon-13 NMR study of the ionizations within a trypsin-chloromethyl ketone inhibitor complex. Biochemistry, 1985, 24, 3478-3487.	1.2	49
42	Detection of a tetrahedral adduct in a trypsin-chloromethyl ketone specific inhibitor complex by carbon-13 NMR. Journal of the American Chemical Society, 1983, 105, 1685-1686.	6.6	47
43	Structure and stereochemistry of tetrahedral inhibitor complexes of papain by direct NMR observation. Journal of the American Chemical Society, 1983, 105, 6324-6325.	6.6	55
44	Evidence that binding to the S2-subsite of papain may be coupled with catalytically relevant structural change involving the cysteine-25â€“histidine-159 diad. Kinetics of the reaction of papain with a two-protonic-state reactivity probe containing a hydrophobic side chain. Biochemical Journal, 1979, 183, 223-231.	1.7	22
45	Studies on Thiol Proteinases with Fluorescent Probes. Biochemical Society Transactions, 1978, 6, 217-220.	1.6	2
46	Intramolecular Inhibition by Enzyme of Site-Specific Modification Reactions can Mask pKa Values Characteristic of the Reaction Pathway: Do the Side Chains of Aspartic Acid-158 and Lysine-156 of Papain Form an Ion-Pair?. Biochemical Society Transactions, 1978, 6, 250-252.	1.6	11
47	Substituted Pyridines as Two-Protonic-State Reactivity Probes, Reporter-Group Delivery Vehicles and Labelling Reagents for the Study of Thiol Enzymes. Biochemical Society Transactions, 1978, 6, 261-263.	1.6	5