

Thomas P Mawhinney

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Analysis of amino acids as their tert.-butyldimethylsilyl derivatives by gas-liquid chromatography and mass spectrometry. <i>Journal of Chromatography A</i> , 1986, 358, 231-242.	1.8	233
2	Products of the Colonic Microbiota Mediate the Effects of Diet on Colon Cancer Risk ,. <i>Journal of Nutrition</i> , 2009, 139, 2044-2048.	1.3	137
3	Chemical composition of cultivated seaweed <i>Ulva clathrata</i> (Roth) C. Agardh. <i>Food Chemistry</i> , 2011, 129, 491-498.	4.2	134
4	N-Methyl-N-(tert-butyldimethylsilyl)trifluoroacetamide and related N-tert-butyldimethylsilyl amides as protective silyl donors. <i>Journal of Organic Chemistry</i> , 1982, 47, 3336-3339.	1.7	125
5	The rapid, quantitative determination of neutral sugars (as aldonitrile acetates) and amino sugars (as O-methylxime acetates) in glycoproteins by gas-liquid chromatography. <i>Analytical Biochemistry</i> , 1980, 101, 112-117.	1.1	112
6	A redox-active isopropylmalate dehydrogenase functions in the biosynthesis of glucosinolates and leucine in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2009, 60, 679-690.	2.8	102
7	Galectin-3 as a Potential Therapeutic Target in Tumors Arising from Malignant Endothelia. <i>Neoplasia</i> , 2007, 9, 662-670.	2.3	89
8	Solid-Phase Microextraction of Nitrogen- and Phosphorus-Containing Pesticides from Water and Gas Chromatographic Analysis. <i>Environmental Science & Technology</i> , 1996, 30, 3259-3265.	4.6	84
9	Inhibition of Prostate Cancer Bone Metastasis by Synthetic TF Antigen Mimic/Galectin-3 Inhibitor Lactulose-l-Leucine. <i>Neoplasia</i> , 2012, 14, 65-73.	2.3	79
10	1-Amino-1-deoxy-d-fructose (α-Fructosamine) and its Derivatives. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 2010, 64, 291-402.	0.4	68
11	Glycosaminoglycan-Lipoprotein complexes from aortas of hypercholesterolemic rabbits. <i>Atherosclerosis</i> , 1978, 31, 155-167.	0.4	61
12	Interaction of Tomato Lycopene and Ketosamine against Rat Prostate Tumorigenesis. <i>Cancer Research</i> , 2008, 68, 4384-4391.	0.4	55
13	Effect of Six Decades of Selective Breeding on Soybean Protein Composition and Quality: A Biochemical and Molecular Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 3916-3922.	2.4	54
14	Sulfated sialyl-oligosaccharides derived from tracheobronchial mucous glycoproteins of a patient suffering from cystic fibrosis.. <i>Carbohydrate Research</i> , 1992, 235, 179-197.	1.1	52
15	Microwave Digestion and Ultrasonic Nebulization for Determination of Boron in Animal Tissues by Inductively Coupled Plasma Atomic Emission Spectrometry With Internal Standardization and Addition of Mannitol. <i>Journal of Analytical Atomic Spectrometry</i> , 1997, 12, 675-679.	1.6	49
16	Gas-liquid chromatography-mass spectrometry of hydroxy fatty acids as their methyl esters tert.-butyldimethylsilyl ethers. <i>Journal of Chromatography A</i> , 1998, 793, 91-98.	1.8	49
17	Synthetic Galectin-3 Inhibitor Increases Metastatic Cancer Cell Sensitivity to Taxol-Induced Apoptosis In Vitro and In Vivo. <i>Neoplasia</i> , 2009, 11, 901-909.	2.3	49
18	Gas-liquid chromatography and mass spectral analysis of mono-, di- and tricarboxylates as their tert.-butyldimethylsilyl derivatives. <i>Journal of Chromatography A</i> , 1986, 361, 117-130.	1.8	45

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19	Separation and analysis of sulfate, phosphate and other oxyanions as their tert.-Butyldimethylsilyl derivatives by gas-liquid chromatography and mass spectrometry. <i>Journal of Chromatography A</i> , 1983, 257, 37-44.	1.8	41
20	Structural analysis of monosulfated side-chain oligosaccharides isolated from human tracheobronchial mucous glycoproteins. <i>Carbohydrate Research</i> , 1992, 223, 187-207.	1.1	39
21	Functional characterization of <i>Arabidopsis thaliana</i> isopropylmalate dehydrogenases reveals their important roles in gametophyte development. <i>New Phytologist</i> , 2011, 189, 160-175.	3.5	39
22	α -D-Fructose-1-histidine: a Potent Copper Chelator from Tomato Powder. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 10373-10381.	2.4	38
23	Nitrogen Lowers the Sulfur Amino Acid Content of Soybean (<i>Glycine max</i> [L.] Merr.) by Regulating the Accumulation of Bowman's Birk Protease Inhibitor. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 6347-6354.	2.4	35
24	piggyBac Transposon plus Insulators Overcome Epigenetic Silencing to Provide for Stable Signaling Pathway Reporter Cell Lines. <i>PLoS ONE</i> , 2013, 8, e85494.	1.1	35
25	Effect of n-3 fatty acids on free tryptophan and exercise fatigue. <i>European Journal of Applied Physiology</i> , 2004, 92, 584-91.	1.2	34
26	Clinical observations of nebulized flunisolide in infants and young children with asthma and bronchopulmonary dysplasia. <i>Pediatric Pulmonology</i> , 1992, 13, 209-214.	1.0	32
27	Studies on the role of 3-deoxy-D-erythro-glucosulose (3-deoxyglucosone) in nonenzymic browning. Evidence for involvement in a Strecker degradation. <i>Journal of Agricultural and Food Chemistry</i> , 1988, 36, 677-680.	2.4	28
28	A rapid, convenient method for the determination of hexosamines as O-acetylated-O-methylloximes by gas-liquid chromatography. <i>Carbohydrate Research</i> , 1979, 75, C21-C23.	1.1	26
29	Proteomic Analysis of the Effects of Aged Garlic Extract and Its FruArg Component on Lipopolysaccharide-Induced Neuroinflammatory Response in Microglial Cells. <i>PLoS ONE</i> , 2014, 9, e113531.	1.1	24
30	Simultaneous determination of N-acetylglucosamine, N-acetylgalactosamine, N-acetylglucosaminitol and N-acetylgalactosaminitol by gas-liquid chromatography. <i>Journal of Chromatography A</i> , 1986, 351, 91-102.	1.8	23
31	Inositol is a required nutrient for keratinocyte growth. <i>Journal of Cellular Physiology</i> , 1988, 135, 416-424.	2.0	20
32	Disulfated oligosaccharides derived from tracheobronchial mucous glycoproteins of a patient suffering from cystic fibrosis. <i>Carbohydrate Research</i> , 1996, 295, 157-177.	1.1	20
33	Carbohydrate sulfation effects on growth of <i>Pseudomonas aeruginosa</i> . <i>Microbiology (United Kingdom)</i> 157, 107-119. <small>10.1093/mic/157.1.107</small>	0.7	19
34	Characterization of a homogeneous arginyl- and lysyl-tRNA synthetase complex isolated from rat liver: arginyl- and lysyl-tRNA synthetases contain carbohydrates. <i>Biochemistry</i> , 1982, 21, 4891-4895.	1.2	18
35	Microwave Digestion with HNO_3 - H_2O_2 -HF for the Determination of Total Aluminum in Seafood and Meat by Inductively Coupled Plasma Atomic Emission Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 1997, 45, 2115-2119.	2.4	18
36	Effects of aged garlic extract and FruArg on gene expression and signaling pathways in lipopolysaccharide-activated microglial cells. <i>Scientific Reports</i> , 2016, 6, 35323.	1.6	18

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37	Phycobilisome-associated glycoproteins in the cyanobacterium <i>Anacystis nidulans</i> R 2. <i>FEBS Letters</i> , 1987, 215, 209-214.	1.3	17
38	Characterization of a Unique Class C Acid Phosphatase from <i>Clostridium perfringens</i> . <i>Applied and Environmental Microbiology</i> , 2009, 75, 3745-3754.	1.4	17
39	RAFT-based tri-component fluorescent glycopolymers: synthesis, characterization and application in lectin-mediated bacterial binding study. <i>Glycoconjugate Journal</i> , 2014, 31, 133-143.	1.4	17
40	Dried Fruit Intake and Cancer: A Systematic Review of Observational Studies. <i>Advances in Nutrition</i> , 2020, 11, 237-250.	2.9	17
41	Solubility and crystal structure of N-(1-deoxy- β -D-fructopyranos-1-yl)-L-histidine monohydrate (β -D-fructose-L-histidine \cdot H $_2$ O). <i>Carbohydrate Research</i> , 2007, 342, 131-138.	1.1	16
42	Transient Proteotoxicity of Bacterial Virulence Factor Pyocyanin in Renal Tubular Epithelial Cells Induces ER-Related Vacuolation and Can Be Efficiently Modulated by Iron Chelators. <i>Toxicological Sciences</i> , 2016, 154, 403-415.	1.4	16
43	Stabilization of the Acyclic Tautomer in Reducing Carbohydrates. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5517-5520.	7.2	15
44	The Structure of N-(1-Deoxy- β -D-fructopyranos-1-yl)-L-proline Monohydrate (β -D-Fructose-L-Proline) and N-(1,6-Dideoxy- β -D-fructofuranos-1-yl)-L-proline (β -D-RhamnULOse-L-Proline). <i>Journal of Carbohydrate Chemistry</i> , 2007, 26, 249-266.	1.1	15
45	Gas-liquid chromatography and mass-spectral analysis of per-O-trimethylsilyl acyclic ketoxime derivatives of neuraminic acid. <i>Carbohydrate Research</i> , 1982, 104, 169-181.	1.1	13
46	The Chronically Reserpinized Rat as an Animal Model for Cystic Fibrosis: I. Acute Effect of Isoproterenol and Pilocarpine upon Pulmonary Lavage Fluid. <i>Pediatric Research</i> , 1979, 13, 760-763.	1.1	12
47	Determination of Phosphorus in Fertilizers by Inductively Coupled Plasma Atomic Emission Spectrometry. <i>Journal of AOAC INTERNATIONAL</i> , 2002, 85, 1241-1246.	0.7	11
48	Development of soybean experimental lines with enhanced protein and sulfur amino acid content. <i>Plant Science</i> , 2021, 308, 110912.	1.7	11
49	The isomerization of d-glucose in acidic solutions. <i>Carbohydrate Research</i> , 1980, 86, 147-150.	1.1	10
50	Acyclic Tautomers in Crystalline Carbohydrates: The Keto Forms of 1-Deoxy-1-carboxymethylamino-d-2-pentuloses (Pentulose-glycines). <i>Journal of the American Chemical Society</i> , 2002, 124, 15178-15179.	6.6	10
51	Disordered hydrogen bonding in N-(1-deoxy- β -D-fructopyranos-1-yl)-N-allylaniline. <i>Carbohydrate Research</i> , 2009, 344, 948-951.	1.1	10
52	Interaction of Bacterial Phenazines with Colistimethate in Bronchial Epithelial Cells. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	1.4	10
53	Gas-liquid chromatography-mass spectrometry of primary and secondary fatty alcohols and diols as their tert.-butyldimethylsilyl derivatives. <i>Journal of Chromatography A</i> , 1997, 771, 191-201.	1.8	9
54	Structure of D-Fructosamine Hydrochloride and D-Fructosamine Hydroacetate. <i>Journal of Carbohydrate Chemistry</i> , 2009, 28, 245-263.	0.4	9

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55	The complex response of free and bound amino acids to water stress during the seed setting stage in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2020, 102, 838-855.	2.8	9
56	Gas-liquid chromatography-mass spectrometry of mono- and dithiols as their tert.-butyldimethylsilyl derivatives. <i>Journal of Chromatography A</i> , 1989, 483, 21-32.	1.8	8
57	Structural Elucidation by Fast Atom Bombardment Mass Spectrometry of Multisulfated Oligosaccharides Isolated from Human Respiratory Mucous Glycoproteins. <i>Journal of Carbohydrate Chemistry</i> , 1994, 13, 825-840.	0.4	8
58	Nitrogen Assimilation and Transport by Ex Planta Nitrogen-Fixing Bradyrhizobium diazoefficiens Bacteroids Is Modulated by Oxygen, Bacteroid Density and l-Malate. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7542.	1.8	8
59	From Gigabyte to Kilobyte: A Bioinformatics Protocol for Mining Large RNA-Seq Transcriptomics Data. <i>PLoS ONE</i> , 2015, 10, e0125000.	1.1	7
60	The Bacteroid Periplasm in Soybean Nodules Is an Interkingdom Symbiotic Space. <i>Molecular Plant-Microbe Interactions</i> , 2017, 30, 997-1008.	1.4	7
61	The Chronically Reserpinized Rat as a Model for Cystic Fibrosis: Alterations in the Mucus-Secreting Sublingual Gland. <i>Pediatric Research</i> , 1983, 17, 523-528.	1.1	6
62	Molecular motion of spin-labeled dextrans in dilute aqueous solution. <i>Macromolecules</i> , 1984, 17, 2417-2420.	2.2	6
63	Observations of, and Insights into, Cystic Fibrosis Mucus Heterogeneity in the Pre-Modulator Era: Sputum Characteristics, DNA and Glycoprotein Content, and Solubilization Time. <i>Journal of Respiration</i> , 2020, 1, 8-29.	0.4	6
64	Composition of Pulmonary Lavage Fluid in Control and Reserpine-treated Rats following Chronic Isoproterenol and Pilocarpine Administration. <i>Pediatric Research</i> , 1980, 14, 872-875.	1.1	5
65	Spin-labeling of polysaccharides by esterification using 3-chloroformyl-2,2,5,5-tetramethylpyrrolidine-1-oxide. <i>Carbohydrate Research</i> , 1983, 116, C1-C4.	1.1	5
66	Composition and properties of very low density lipoproteins secreted by the perfused rat liver and subfractionated by affinity chromatography. <i>Lipids and Lipid Metabolism</i> , 1987, 917, 62-73.	2.6	5
67	Molecular and crystal structure and the Hirshfeld surface analysis of 1-amino-1-deoxy- β -D-sorbofuranose and 1-amino-1-deoxy- β -D-psicofuranose (and) Tj ETQq11180.784334 rgBT		
68	Multicentered hydrogen bonding in 1-[(1-deoxy- β -D-fructopyranos-1-yl)azaniumyl]cyclopentanecarboxylate (' β -fructose-cycloleucine'). <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2019, 75, 1096-1101.	0.2	5
69	Intramolecular 1,5-S...N π -hole interaction in (<i>E</i>)-N-(pyridin-4-ylmethylidene)thiophene-2-carbohydrazide. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2020, 76, 557-561.	0.2	5
70	Bidirectional Responses of Eight Neuroinflammation-Related Transcriptional Factors to 64 Flavonoids in Astrocytes with Transposable Insulated Signaling Pathway Reporters. <i>ACS Chemical Neuroscience</i> , 2022, 13, 613-623.	1.7	5
71	Perilymphatic fistula: Analysis of free amino acids in middle ear microaspirates. <i>Otolaryngology - Head and Neck Surgery</i> , 1991, 104, 796-802.	1.1	4
72	Determination of total boron in soils by inductively coupled plasma atomic emission spectrometry using microwave-assisted digestion. <i>Communications in Soil Science and Plant Analysis</i> , 1998, 29, 2493-2503.	0.6	3

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73	Crystal structure of the acyclic form of 1-deoxy-1-[(4-methoxyphenyl)(methyl)amino]-D-fructose. Acta Crystallographica Section E: Crystallographic Communications, 2018, 74, 127-132.	0.2	3
74	Characterization of Gallus Domesticus Î±-N-Acetyl-Galactosaminidase Blood Group A2 Activity. Artificial Cells, Blood Substitutes, and Biotechnology, 1995, 23, 63-79.	0.9	2
75	Using Negative Staining TEM to Study Structure/Function Relationships of Cystic Fibrosis Host-Adapted Opportunistic Pathogen <i>Pseudomonas aeruginosa</i> . Microscopy and Microanalysis, 2017, 23, 1354-1355.	0.2	2
76	Crystal structure and hydrogen bonding in (1-deoxy-2-deoxy-fructopyranos-1-yl)-2-aminoisobutyric acid. Acta Crystallographica Section E: Crystallographic Communications, 2018, 74, 72-77.	0.2	2
77	Crystal structure of (E)-3-methoxy-N-(1-(pyridin-2-yl)ethylidene)benzohydrazide, C ₁₅ H ₁₅ N ₃ O ₂ . Zeitschrift Fur Kristallographie - New Crystal Structures, 2020, 235, 907-909.	0.1	2
78	Quality of Intrathecal Baclofen From Different Sources. PM and R, 2012, 4, 182-189.	0.9	1
79	Synthesis and structural studies of 1-amino-1-deoxy-Î±-L-xylo-hexulopyranose: L-Sorbosamine. Journal of Carbohydrate Chemistry, 2018, 37, 153-162.	0.4	1
80	Structure, Antioxidant and Anti-inflammatory Activities of the (4R)- and (4S)-epimers of S-Carboxymethyl-L-cysteine Sulfoxide. Pharmaceuticals, 2020, 13, 270.	1.7	1
81	Cytotoxic Interactions between <i>Pseudomonas aeruginosa</i> Virulence Factors and Metal-Based Antimicrobials In Vitro. FASEB Journal, 2019, 33, 662.47.	0.2	1
82	Cystic Fibrosis Sputum Reflections from the Pre-Modulator Age. FASEB Journal, 2020, 34, 1-1.	0.2	1
83	1-Deoxy-1-(N-methyl-4-fluorophenylamino)-D-arabino-hexulose. IUCrData, 2018, 3, .	0.1	1
84	Crystal structure of (R,S)-2-hydroxy-4-(methylsulfanyl)butanoic acid. Acta Crystallographica Section E: Crystallographic Communications, 2020, 76, 562-566.	0.2	1
85	Crystal structure of (E)-N-(1-(2-hydroxy-4-methoxyphenyl)ethylidene) isonicotinohydrazide, C ₁₅ H ₁₅ N ₃ O ₃ . Zeitschrift Fur Kristallographie - New Crystal Structures, 2022, .	0.1	1
86	Purification, characterization, and localization of a 29 ku (kilodalton) glycoprotein from the edible tubers of <i>Apios americana</i> Medikus. Journal of Plant Physiology, 1996, 149, 322-328.	1.6	0
87	SEM Examination of Host-Pathogen Interactions in the Respiratory Mucosa with Drying by HMDS and by Critical Point Method. Microscopy and Microanalysis, 2004, 10, 238-239.	0.2	0
88	Food-Related Carbohydrate Ligands for Galectins. , 0, , 235-270.		0
89	Facile and Efficient Preparation of Tri-component Fluorescent Glycopolymers via RAFT-controlled Polymerization. Journal of Visualized Experiments, 2015, , e52922.	0.2	0
90	N-(1-Deoxy-Î±-D-tagatopyranos-1-yl)-N-methylaniline (Î±-D-Tagatose-N-methylaniline). MolBank, 2018, 2018, M994.	0.2	0

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91	4-(Dimethylamino)benzohydrazide. IUCrData, 2020, 5, .	0.1	0
92	β-D-Galactopyranosyl-(1→4)-2-amino-2-deoxy-β-D-glucopyranose hydrochloride monohydrate (lactosamine). IUCrData, 2022, 7, .	0.1	0