

Thomas P Mawhinney

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3260869/publications.pdf>

Version: 2024-02-01

92
papers

2,446
citations

201575

27
h-index

214721

47
g-index

94
all docs

94
docs citations

94
times ranked

2594
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Crystal structure of (E)-N ² -(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 |
| 2 | β-D-Galactopyranosyl-(1→4)-2-amino-2-deoxy-β-D-glucopyranose hydrochloride monohydrate (lactosamine). IUCrData, 2022, 7, . | 0.1 | 0 |
| 3 | Bidirectional Responses of Eight Neuroinflammation-Related Transcriptional Factors to 64 Flavonoids in Astrocytes with Transposable Insulated Signaling Pathway Reporters. ACS Chemical Neuroscience, 2022, 13, 613-623. | 1.7 | 5 |
| 4 | Development of soybean experimental lines with enhanced protein and sulfur amino acid content. Plant Science, 2021, 308, 110912. | 1.7 | 11 |
| 5 | Dried Fruit Intake and Cancer: A Systematic Review of Observational Studies. Advances in Nutrition, 2020, 11, 237-250. | 2.9 | 17 |
| 6 | The complex response of free and bound amino acids to water stress during the seed setting stage in Arabidopsis. Plant Journal, 2020, 102, 838-855. | 2.8 | 9 |
| 7 | 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 |
| 8 | Observations of, and Insights into, Cystic Fibrosis Mucus Heterogeneity in the Pre-Modulator Era: Sputum Characteristics, DNA and Glycoprotein Content, and Solubilization Time. Journal of Respiration, 2020, 1, 8-29. | 0.4 | 6 |
| 9 | Nitrogen Assimilation and Transport by Ex Planta Nitrogen-Fixing Bradyrhizobium diazoefficiens Bacteroids Is Modulated by Oxygen, Bacteroid Density and L-Malate. International Journal of Molecular Sciences, 2020, 21, 7542. | 1.8 | 8 |
| 10 | Cystic Fibrosis Sputum Reflections from the Pre-Modulator Age. FASEB Journal, 2020, 34, 1-1. | 0.2 | 1 |
| 11 | Crystal structure of (E)-3-methoxy-N ² -(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 |
| 12 | Crystal structure of (R,S)-2-hydroxy-4-(methylsulfanyl)butanoic acid. Acta Crystallographica Section E: Crystallographic Communications, 2020, 76, 562-566. | 0.2 | 1 |
| 13 | Intramolecular 1,5-S...N π -hole interaction in (E)-N ² -(pyridin-4-ylmethylidene)thiophene-2-carbohydrazide. Acta Crystallographica Section E: Crystallographic Communications, 2020, 76, 557-561. | 0.2 | 5 |
| 14 | 4-(Dimethylamino)benzohydrazide. IUCrData, 2020, 5, . | 0.1 | 0 |
| 15 | Cytotoxic Interactions between Pseudomonas aeruginosa Virulence Factors and Metal-Based Antimicrobials In Vitro. FASEB Journal, 2019, 33, 662.47. | 0.2 | 1 |
| 16 | Multicentered hydrogen bonding in 1-[(1-deoxy-β-D-fructopyranos-1-yl)azaniumyl]cyclopentanecarboxylate (β-D-fructose-cycloleucine'). Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 1096-1101. | 0.2 | 5 |
| 17 | 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 (α-D-sorbosamine and) Tj ETQq11180.784334 rgBT | | |
| 18 | Interaction of Bacterial Phenazines with Colistimethate in Bronchial Epithelial Cells. Antimicrobial Agents and Chemotherapy, 2018, 62, . | 1.4 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Synthesis and structural studies of 1-amino-1-deoxy- β -L-xylo-hexulopyranose: L-Sorbosamine. <i>Journal of Carbohydrate Chemistry</i> , 2018, 37, 153-162. | 0.4 | 1 |
| 20 | 1-Deoxy-1-(N-methyl-4-fluorophenylamino)-D-arabino-hexulose. <i>IUCrData</i> , 2018, 3, . | 0.1 | 1 |
| 21 | Crystal structure of the acyclic form of 1-deoxy-1-[(4-methoxyphenyl)(methyl)amino]-D-fructose. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2018, 74, 127-132. | 0.2 | 3 |
| 22 | Crystal structure and hydrogen bonding in <i>N</i> -(1-deoxy- β -D-fructopyranos-1-yl)-2-aminoisobutyric acid. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2018, 74, 72-77. | 0.2 | 2 |
| 23 | <i>N</i> -(1-Deoxy- β -D-tagatopyranos-1-yl)- <i>N</i> -methylaniline (æœd-Tagatose- <i>N</i> -methylanilineæœ). <i>MolBank</i> , 2018, 2018, M994. | 0.2 | 0 |
| 24 | The Bacteroid Periplasm in Soybean Nodules Is an Interkingdom Symbiotic Space. <i>Molecular Plant-Microbe Interactions</i> , 2017, 30, 997-1008. | 1.4 | 7 |
| 25 | Using Negative Staining TEM to Study Structure/Function Relationships of Cystic Fibrosis Host-Adapted Opportunistic Pathogen <i>Pseudomonas aeruginosa</i> . <i>Microscopy and Microanalysis</i> , 2017, 23, 1354-1355. | 0.2 | 2 |
| 26 | 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 |
| 27 | 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 |
| 28 | Facile and Efficient Preparation of Tri-component Fluorescent Glycopolymers via RAFT-controlled Polymerization. <i>Journal of Visualized Experiments</i> , 2015, , e52922. | 0.2 | 0 |
| 29 | From Gigabyte to Kilobyte: A Bioinformatics Protocol for Mining Large RNA-Seq Transcriptomics Data. <i>PLoS ONE</i> , 2015, 10, e0125000. | 1.1 | 7 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | Quality of Intrathecal Baclofen From Different Sources. <i>PM and R</i> , 2012, 4, 182-189. | 0.9 | 1 |
| 34 | 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 |
| 35 | 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 |
| 36 | Chemical composition of cultivated seaweed <i>Ulva clathrata</i> (Roth) C. Agardh. <i>Food Chemistry</i> , 2011, 129, 491-498. | 4.2 | 134 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | 1-Amino-1-deoxy-d-fructose (â€œFructosamineâ€) and its Derivatives. Advances in Carbohydrate Chemistry and Biochemistry, 2010, 64, 291-402. | 0.4 | 68 |
| 38 | Products of the Colonic Microbiota Mediate the Effects of Diet on Colon Cancer Risk ,. Journal of Nutrition, 2009, 139, 2044-2048. | 1.3 | 137 |
| 39 | Characterization of a Unique Class C Acid Phosphatase from <i>Clostridium perfringens</i> . Applied and Environmental Microbiology, 2009, 75, 3745-3754. | 1.4 | 17 |
| 40 | Stabilization of the Acyclic Tautomer in Reducing Carbohydrates. Angewandte Chemie - International Edition, 2009, 48, 5517-5520. | 7.2 | 15 |
| 41 | A redoxâ€active isopropylmalate dehydrogenase functions in the biosynthesis of glucosinolates and leucine in Arabidopsis. Plant Journal, 2009, 60, 679-690. | 2.8 | 102 |
| 42 | Disordered hydrogen bonding in N-(1-deoxy-Î²-d-fructopyranos-1-yl)-N-allylaniline. Carbohydrate Research, 2009, 344, 948-951. | 1.1 | 10 |
| 43 | Structure of D-Fructosamine Hydrochloride and D-Fructosamine Hydroacetate. Journal of Carbohydrate Chemistry, 2009, 28, 245-263. | 0.4 | 9 |
| 44 | Synthetic Galectin-3 Inhibitor Increases Metastatic Cancer Cell Sensitivity to Taxol-Induced Apoptosis In Vitro and In Vivo. Neoplasia, 2009, 11, 901-909. | 2.3 | 49 |
| 45 | Interaction of Tomato Lycopene and Ketosamine against Rat Prostate Tumorigenesis. Cancer Research, 2008, 68, 4384-4391. | 0.4 | 55 |
| 46 | The Structure of Nâ€(1â€Deoxyâ€Î²â€Dâ€fructopyranosâ€1â€yl)â€Lâ€proline Monohydrate (â€Dâ€Fructoseâ€Lâ€prolineâ€) and Nâ€(1,6â€Dideoxyâ€Lâ€fructofuranosâ€1â€yl)â€Lâ€proline (â€Lâ€Rhamnuloseâ€Lâ€prolineâ€). Journal of Carbohydrate Chemistry, 2007, 26, 249-266. | 0.4 | 9 |
| 47 | <i>N</i> -(1-Deoxy- β -D-fructos-1-yl)-L-histidine (â€dâ€Fructoseâ€Lâ€prolineâ€): a Potent Copper Chelator from Tomato Powder. Journal of Agricultural and Food Chemistry, 2007, 55, 10373-10381. | 2.4 | 38 |
| 48 | Galectin-3 as a Potential Therapeutic Target in Tumors Arising from Malignant Endothelia. Neoplasia, 2007, 9, 662-670. | 2.3 | 89 |
| 49 | Solubility and crystal structure of N-(1-deoxy-Î²-d-fructopyranos-1-yl)-L-histidine monohydrate (â€dâ€fructose-L-histidineâ€™). Carbohydrate Research, 2007, 342, 131-138. | 1.1 | 16 |
| 50 | Effect of Six Decades of Selective Breeding on Soybean Protein Composition and Quality: A Biochemical and Molecular Analysis. Journal of Agricultural and Food Chemistry, 2006, 54, 3916-3922. | 2.4 | 54 |
| 51 | Nitrogen Lowers the Sulfur Amino Acid Content of Soybean (<i>Glycine max</i> [L.] Merr.) by Regulating the Accumulation of Bowmanâ€™Birk Protease Inhibitor. Journal of Agricultural and Food Chemistry, 2005, 53, 6347-6354. | 2.4 | 35 |
| 52 | Effect of n-3 fatty acids on free tryptophan and exercise fatigue. European Journal of Applied Physiology, 2004, 92, 584-91. | 1.2 | 34 |
| 53 | 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 |
| 54 | Acyclic Tautomers in Crystalline Carbohydrates: The Keto Forms of 1-Deoxy-1-carboxymethylamino-d-2-pentuloses (Pentulose-glycines). Journal of the American Chemical Society, 2002, 124, 15178-15179. | 6.6 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | 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 |
| 56 | Carbohydrate sulfation effects on growth of <i>Pseudomonas aeruginosa</i> . <i>Microbiology (United Kingdom)</i> 140, 1970-1975. | 0.7 | 19 |
| 57 | 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 |
| 58 | 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 |
| 59 | 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 |
| 60 | Microwave Digestion with HNO ₃ -H ₂ O 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 |
| 61 | 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 |
| 62 | 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 |
| 63 | Purification, characterization, and localization of a 29 ku (kilodalton) glycoprotein from the edible tubers of <i>Apios americana</i> Medikus. <i>Journal of Plant Physiology</i> , 1996, 149, 322-328. | 1.6 | 0 |
| 64 | 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 |
| 65 | Characterization of Gallus Domesticus Î±-N-Acetyl-Galactosaminidase Blood Group A2 Activity. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 1995, 23, 63-79. | 0.9 | 2 |
| 66 | 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 |
| 67 | 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 |
| 68 | Structural analysis of monosulfated side-chain oligosaccharides isolated from human tracheobronchial mucous glycoproteins. <i>Carbohydrate Research</i> , 1992, 223, 187-207. | 1.1 | 39 |
| 69 | 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 |
| 70 | 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 |
| 71 | 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 |
| 72 | Inositol is a required nutrient for keratinocyte growth. <i>Journal of Cellular Physiology</i> , 1988, 135, 416-424. | 2.0 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | 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 |
| 74 | Phycobilisome-associated glycoproteins in the cyanobacterium <i>Anacystis nidulans</i> R 2. <i>FEBS Letters</i> , 1987, 215, 209-214. | 1.3 | 17 |
| 75 | 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 |
| 76 | 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 |
| 77 | 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 |
| 78 | 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 |
| 79 | Molecular motion of spin-labeled dextrans in dilute aqueous solution. <i>Macromolecules</i> , 1984, 17, 2417-2420. | 2.2 | 6 |
| 80 | 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 |
| 81 | 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 |
| 82 | 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 |
| 83 | 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 |
| 84 | 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 |
| 85 | 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 |
| 86 | 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 |
| 87 | The rapid, quantitative determination of neutral sugars (as aldonitrile acetates) and amino sugars (as O-methyloxime acetates) in glycoproteins by gas-liquid chromatography. <i>Analytical Biochemistry</i> , 1980, 101, 112-117. | 1.1 | 112 |
| 88 | The isomerization of d-glucose in acidic solutions. <i>Carbohydrate Research</i> , 1980, 86, 147-150. | 1.1 | 10 |
| 89 | A rapid, convenient method for the determination of hexosamines as O-acetylated-O-methyloximes by gas-liquid chromatography. <i>Carbohydrate Research</i> , 1979, 75, C21-C23. | 1.1 | 26 |
| 90 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 91 | Glycosaminoglycanâ€”Lipoprotein complexes from aortas of hypercholesterolemic rabbits. <i>Atherosclerosis</i> , 1978, 31, 155-167. | 0.4 | 61 |
| 92 | Food-Related Carbohydrate Ligands for Galectins. , 0, , 235-270. | | 0 |