

Spencer Williams

List of Publications by Year in descending order

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156
papers

5,477
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81900

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110387

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179
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179
docs citations

179
times ranked

7407
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Human gut Bacteroidetes can utilize yeast mannan through a selfish mechanism. <i>Nature</i> , 2015, 517, 165-169. | 27.8 | 427 |
| 2 | Glycosyl fluorides in enzymatic reactions. <i>Carbohydrate Research</i> , 2000, 327, 27-46. | 2.3 | 207 |
| 3 | â€Clickâ€™ cycloaddition catalysts: copper(i) and copper(ii) tris(triazolylmethyl)amine complexes. <i>Chemical Communications</i> , 2008, , 2459. | 4.1 | 180 |
| 4 | Aspartate 313 in the <i>Streptomyces plicatus</i> Hexosaminidase Plays a Critical Role in Substrate-assisted Catalysis by Orienting the 2-Acetamido Group and Stabilizing the Transition State. <i>Journal of Biological Chemistry</i> , 2002, 277, 40055-40065. | 3.4 | 126 |
| 5 | Mechanistic insights into a Ca ²⁺ -dependent family of Î±-mannosidases in a human gut symbiont. <i>Nature Chemical Biology</i> , 2010, 6, 125-132. | 8.0 | 115 |
| 6 | Dissecting conformational contributions to glycosidase catalysis and inhibition. <i>Current Opinion in Structural Biology</i> , 2014, 28, 1-13. | 5.7 | 115 |
| 7 | Sulfotransferases and Sulfatases in <i>Mycobacteria</i> . <i>Chemistry and Biology</i> , 2002, 9, 767-776. | 6.0 | 109 |
| 8 | MCL and MinCLE: C-Type Lectin Receptors That Sense Damaged Self and Pathogen-Associated Molecular Patterns. <i>Frontiers in Immunology</i> , 2014, 5, 288. | 4.8 | 109 |
| 9 | 5'-Adenosinephosphosulphate reductase (CysH) protects <i>Mycobacterium tuberculosis</i> against free radicals during chronic infection phase in mice. <i>Molecular Microbiology</i> , 2006, 59, 1744-1753. | 2.5 | 102 |
| 10 | Trehalose Is Required for Growth of <i>Mycobacterium smegmatis</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 28835-28843. | 3.4 | 100 |
| 11 | A semi-invariant VÎ±10+ T cell antigen receptor defines a population of natural killer T cells with distinct glycolipid antigenâ€™recognition properties. <i>Nature Immunology</i> , 2011, 12, 616-623. | 14.5 | 97 |
| 12 | Compartmentalization of Lipid Biosynthesis in <i>Mycobacteria</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 21645-21652. | 3.4 | 92 |
| 13 | Sulfotransferases, sulfatases and formylglycine-generating enzymes: a sulfation fascination. <i>Current Opinion in Chemical Biology</i> , 2008, 12, 573-581. | 6.1 | 91 |
| 14 | Conjugation of Transferrin to Azideâ€™Modified CdSe/ZnS Coreâ€™Shell Quantum Dots using Cyclooctyne Click Chemistry. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10523-10527. | 13.8 | 87 |
| 15 | 5â€™-Adenosinephosphosulfate Lies at a Metabolic Branch Point in <i>Mycobacteria</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 32606-32615. | 3.4 | 83 |
| 16 | Understanding the Cardioprotective Effects of Flavonols: Discovery of Relaxant Flavonols without Antioxidant Activity. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 1874-1884. | 6.4 | 83 |
| 17 | Proteinâ€™carbohydrate interactions: learning lessons from nature. <i>Trends in Biotechnology</i> , 2001, 19, 356-362. | 9.3 | 82 |
| 18 | High-Resolution Crystal Structures of the Lectin-like Xylan Binding Domain from <i>Streptomyces lividans</i> Xylanase 10A with Bound Substrates Reveal a Novel Mode of Xylan Binding,. <i>Biochemistry</i> , 2002, 41, 4246-4254. | 2.5 | 78 |

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|----|--|------|-----------|
| 19 | Glycosynthases: Mutant Glycosidases for Glycoside Synthesis. Australian Journal of Chemistry, 2002, 55, 3. | 0.9 | 74 |
| 20 | Structural and mechanistic insight into N-glycan processing by endo- α -mannosidase. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 781-786. | 7.1 | 74 |
| 21 | Active-site Peptide "Fingerprinting" of Glycosidases in Complex Mixtures by Mass Spectrometry. Journal of Biological Chemistry, 2005, 280, 35126-35135. | 3.4 | 73 |
| 22 | Detailed Structural Analysis of Glycosidase/Inhibitor Interactions: α Complexes of Cex from <i>Cellulomonas fimi</i> with Xylobiose-Derived Aza-Sugars. Biochemistry, 2000, 39, 11553-11563. | 2.5 | 68 |
| 23 | Nanomolar versus Millimolar Inhibition by Xylobiose-Derived Azasugars: Significant Differences between Two Structurally Distinct Xylanases. Journal of the American Chemical Society, 2000, 122, 2223-2235. | 13.7 | 61 |
| 24 | Discovery of sulfated metabolites in mycobacteria with a genetic and mass spectrometric approach. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 17037-17042. | 7.1 | 61 |
| 25 | YihQ is a sulfoquinovosidase that cleaves sulfoquinovosyl diacylglyceride sulfolipids. Nature Chemical Biology, 2016, 12, 215-217. | 8.0 | 60 |
| 26 | The Reaction Coordinate of a Bacterial GH47 α -Mannosidase: A Combined Quantum Mechanical and Structural Approach. Angewandte Chemie - International Edition, 2012, 51, 10997-11001. | 13.8 | 57 |
| 27 | A New, Simple, High-Affinity Glycosidase Inhibitor: Analysis of Binding through X-ray Crystallography, Mutagenesis, and Kinetic Analysis. Journal of the American Chemical Society, 2000, 122, 4229-4230. | 13.7 | 54 |
| 28 | Sulfatase inhibitors: a patent review. Expert Opinion on Therapeutic Patents, 2013, 23, 79-98. | 5.0 | 49 |
| 29 | Corynomycolic acid-containing glycolipids signal through the pattern recognition receptor Mincle. Chemical Communications, 2015, 51, 5100-5103. | 4.1 | 49 |
| 30 | Acetylation of Trehalose Mycolates Is Required for Efficient MmpL-Mediated Membrane Transport in <i>Corynebacterineae</i> . ACS Chemical Biology, 2015, 10, 734-746. | 3.4 | 48 |
| 31 | α -glucosidase inhibitors as host-directed antiviral agents with potential for the treatment of COVID-19. Biochemical Society Transactions, 2020, 48, 1287-1295. | 3.4 | 48 |
| 32 | Synthesis and Testing of Mechanism-Based Protein-Profiling Probes for Retaining Endo-glycosidases. ChemBioChem, 2006, 7, 116-124. | 2.6 | 47 |
| 33 | Copper(i)-catalyzed cycloaddition of silver acetylides and azides: Incorporation of volatile acetylenes into the triazole core. Organic and Biomolecular Chemistry, 2011, 9, 6082. | 2.8 | 47 |
| 34 | Carbohydrate-active enzymes: sequences, shapes, contortions and cells. Biochemical Society Transactions, 2016, 44, 79-87. | 3.4 | 47 |
| 35 | Evaluation and optimization of antifibrotic activity of cinnamoyl anthranilates. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 7003-7006. | 2.2 | 44 |
| 36 | Halide-ion-templated Ag ₈ Cu ₆ rhombic dodecahedrons: synthesis, structure and reactivity of [Ag ₈ Cu ₆ (Cl/CtBu) ₁₂][BF ₄] (X = Cl, Br). Dalton Transactions, 2013, 42, 4903. | 3.3 | 43 |

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|----|---|------|-----------|
| 37 | Transition-State Mimicry by Glycosidase Inhibitors: A Critical Kinetic Analysis. <i>Journal of the American Chemical Society</i> , 2007, 129, 4530-4531. | 13.7 | 42 |
| 38 | <i>Mycobacterium tuberculosis</i> β -gentiobiosyl diacylglycerides signal through the pattern recognition receptor Mincle: total synthesis and structure activity relationships. <i>Chemical Communications</i> , 2015, 51, 15027-15030. | 4.1 | 41 |
| 39 | Evidence for a Boat Conformation at the Transition State of GH76 β -Mannanases Key Enzymes in Bacterial and Fungal Mannoprotein Metabolism. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5378-5382. | 13.8 | 40 |
| 40 | Nucleus incertus promotes cortical desynchronization and behavioral arousal. <i>Brain Structure and Function</i> , 2017, 222, 515-537. | 2.3 | 40 |
| 41 | Chemical approaches for the study of the mycobacterial glycolipids phosphatidylinositol mannosides, lipomannan and lipoarabinomannan. <i>Natural Product Reports</i> , 2010, 27, 919. | 10.3 | 39 |
| 42 | Combined Inhibitor Free Energy Landscape and Structural Analysis Reports on the Mannosidase Conformational Coordinate. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1087-1091. | 13.8 | 39 |
| 43 | Bacterial β -Glucosidase Reveals the Structural and Functional Basis of Genetic Defects in Human Glucocerebrosidase 2 (GBA2). <i>ACS Chemical Biology</i> , 2016, 11, 1891-1900. | 3.4 | 39 |
| 44 | A β -Mannanase with a Lysozyme-like Fold and a Novel Molecular Catalytic Mechanism. <i>ACS Central Science</i> , 2016, 2, 896-903. | 11.3 | 39 |
| 45 | 2,6-Disubstituted Benzoates As Neighboring Groups for Enhanced Diastereoselectivity in β -Galactosylation Reactions: Synthesis of β -1,3-Linked Oligogalactosides Related to Arabinogalactan Proteins. <i>Journal of Organic Chemistry</i> , 2009, 74, 9388-9398. | 3.2 | 38 |
| 46 | Copper-free palladium-catalyzed Sonogashira and Hiyama cross-couplings using aryl imidazol-1-ylsulfonates. <i>Tetrahedron Letters</i> , 2010, 51, 2971-2974. | 1.4 | 37 |
| 47 | A Purpose-Synthesised Anti-Fibrotic Agent Attenuates Experimental Kidney Diseases in the Rat. <i>PLoS ONE</i> , 2012, 7, e47160. | 2.5 | 37 |
| 48 | Use of Click Chemistry to Define the Substrate Specificity of <i>Leishmania</i> β -1,2-Mannosyltransferases. <i>ChemBioChem</i> , 2006, 7, 1384-1391. | 2.6 | 36 |
| 49 | <i>Leishmania</i> beta-1,2-mannan is assembled on a mannose-cyclic phosphate primer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9458-9463. | 7.1 | 36 |
| 50 | FT011, a new anti-fibrotic drug, attenuates fibrosis and chronic heart failure in experimental diabetic cardiomyopathy. <i>European Journal of Heart Failure</i> , 2012, 14, 549-562. | 7.1 | 36 |
| 51 | Antigen Specificity of Type I NKT Cells Is Governed by TCR β -Chain Diversity. <i>Journal of Immunology</i> , 2015, 195, 4604-4614. | 0.8 | 36 |
| 52 | Total synthesis of a cyclopropane-fatty acid β -glucosyl diglyceride from <i>Lactobacillus plantarum</i> and identification of its ability to signal through Mincle. <i>Chemical Communications</i> , 2016, 52, 10902-10905. | 4.1 | 36 |
| 53 | Non-volatile components of the essential oil secretory cavities of <i>Eucalyptus</i> leaves: Discovery of two glucose monoterpene esters, cuniloside B and froggattiside A. <i>Phytochemistry</i> , 2009, 70, 1187-1194. | 2.9 | 35 |
| 54 | Rapid, iterative assembly of octyl β -1,6-oligomannosides and their 6-deoxy equivalents. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 1982. | 2.8 | 34 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 55 | Copper and Silver Complexes of Tris(triazole)amine and Tris(benzimidazole)amine Ligands: Evidence that Catalysis of an Azide-Alkyne Cycloaddition (Click) Reaction by a Silver Tris(triazole)amine Complex Arises from Copper Impurities. <i>Inorganic Chemistry</i> , 2014, 53, 6503-6511. | 4.0 | 34 |
| 56 | An Epoxide Intermediate in Glycosidase Catalysis. <i>ACS Central Science</i> , 2020, 6, 760-770. | 11.3 | 34 |
| 57 | Electronic Structure of the Sulfonyl and Phosphonyl Groups: A Computational and Crystallographic Study. <i>Inorganic Chemistry</i> , 2007, 46, 8871-8886. | 4.0 | 32 |
| 58 | Comprehensive two-dimensional gas chromatography, retention indices and time-of-flight mass spectra of flavonoids and chalcones. <i>Journal of Chromatography A</i> , 2010, 1217, 8317-8326. | 3.7 | 32 |
| 59 | Experimental and Theoretical Insights into the Mechanisms of Sulfate and Sulfamate Ester Hydrolysis and the End Products of Type I Sulfatase Inactivation by Aryl Sulfamates. <i>Journal of Organic Chemistry</i> , 2014, 79, 1995-2005. | 3.2 | 32 |
| 60 | Galactose-derived phosphonate analogues as potential inhibitors of phosphatidylinositol biosynthesis in mycobacteria. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 952. | 2.8 | 31 |
| 61 | Structural and Biochemical Insights into the Function and Evolution of Sulfoquinovosidases. <i>ACS Central Science</i> , 2018, 4, 1266-1273. | 11.3 | 31 |
| 62 | Neighboring Group Participation in Glycosylation Reactions by 2,6-Disubstituted 2-O-Benzoyl groups: A Mechanistic Investigation. <i>Journal of Carbohydrate Chemistry</i> , 2010, 29, 236-263. | 1.1 | 30 |
| 63 | Synthesis and Preliminary Pharmacological Evaluation of Aryl Dithiolethiones with Cyclooxygenase-2-Selective Inhibitory Activity and Hydrogen Sulfide-Releasing Properties. <i>Australian Journal of Chemistry</i> , 2010, 63, 946. | 0.9 | 30 |
| 64 | Direct Evidence for ArO-S Bond Cleavage upon Inactivation of <i>Pseudomonas aeruginosa</i> Arylsulfatase by Aryl Sulfamates. <i>ChemBioChem</i> , 2008, 9, 613-623. | 2.6 | 29 |
| 65 | A Click Chemistry Approach to 5,5-Disubstituted-3,3-Bisoxazoles from Dichloroglyoxime and Alkynes: Luminescent Organometallic Iridium and Rhenium Bisoxazole Complexes. <i>Journal of Organic Chemistry</i> , 2013, 78, 7298-7304. | 3.2 | 29 |
| 66 | Chronic Brain Inflammation: The Neurochemical Basis for Drugs to Reduce Inflammation. <i>Neurochemical Research</i> , 2016, 41, 523-533. | 3.3 | 28 |
| 67 | Localization of Oleuropeyl Glucose Esters and a Flavanone to Secretory Cavities of Myrtaceae. <i>PLoS ONE</i> , 2012, 7, e40856. | 2.5 | 28 |
| 68 | The carbohydrate-binding promiscuity of <i>Euonymus europaeus</i> lectin is predicted to involve a single binding site. <i>Glycobiology</i> , 2015, 25, 101-114. | 2.5 | 27 |
| 69 | Atomic resolution analyses of the binding of xylobiose-derived deoxynojirimycin and isofagomine to xylanase Xyn10A. Electronic supplementary information (ESI) available: kinetics and structural methods. See http://www.rsc.org/suppdata/cc/b4/b405152a/ . <i>Chemical Communications</i> , 2004, , 1794. | 4.1 | 26 |
| 70 | Antioxidant activity contributes to flavonol cardioprotection during reperfusion of rat hearts. <i>Free Radical Biology and Medicine</i> , 2011, 51, 1437-1444. | 2.9 | 25 |
| 71 | C2-Oxanyon Neighboring Group Participation: Transition State Structure for the Hydroxide-Promoted Hydrolysis of 4-Nitrophenyl 1-Mannopyranoside. <i>Journal of the American Chemical Society</i> , 2016, 138, 14012-14019. | 13.7 | 25 |
| 72 | Synthesis, Structural Elucidation, And Biochemical Analysis of Immunoactive Glucuronosyl Diacylglycerides of Mycobacteria and Corynebacteria. <i>Journal of Organic Chemistry</i> , 2013, 78, 2175-2190. | 3.2 | 24 |

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|----|--|------|-----------|
| 73 | Synthesis of the monoterpene esters cypelloleucarin C and cuniloside B and evidence for their widespread occurrence in Eucalyptus. <i>Carbohydrate Research</i> , 2010, 345, 2079-2084. | 2.3 | 23 |
| 74 | Synthesis of glycosyl fluorides from thio-, seleno-, and telluroglycosides and glycosyl sulfoxides using aminodifluorosulfonium tetrafluoroborates. <i>Carbohydrate Research</i> , 2012, 357, 16-22. | 2.3 | 23 |
| 75 | Total syntheses of cis-cyclopropane fatty acids: dihydromalvalic acid, dihydrosterculic acid, lactobacillic acid, and 9,10-methylenehexadecanoic acid. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 9427-9438. | 2.8 | 23 |
| 76 | Cardioprotective 3,4-dihydroxyflavonol attenuation of JNK and p38MAPK signalling involves CaMKII inhibition. <i>Biochemical Journal</i> , 2013, 456, 149-161. | 3.7 | 22 |
| 77 | A Single Glycosidase Harnesses Different Pyranoside Ring Transition State Conformations for Hydrolysis of Mannosides and Glucosides. <i>ACS Catalysis</i> , 2015, 5, 6041-6051. | 11.2 | 22 |
| 78 | Sulfoglycolysis: catabolic pathways for metabolism of sulfoquinovose. <i>Chemical Society Reviews</i> , 2021, 50, 13628-13645. | 38.1 | 22 |
| 79 | Synthesis of Sulfated Glucosaminides for Profiling Substrate Specificities of Sulfatases and Fungal N-Acetylhexosaminidases. <i>ChemBioChem</i> , 2009, 10, 565-576. | 2.6 | 21 |
| 80 | The galanin-3 receptor antagonist, SNAP 37889, reduces operant responding for ethanol in alcohol-preferring rats. <i>Regulatory Peptides</i> , 2011, 166, 59-67. | 1.9 | 21 |
| 81 | 'Click' Preparation of Carbohydrate 1-Benzotriazoles, 1,4-Disubstituted, and 1,4,5-Trisubstituted Triazoles and their Utility as Glycosyl Donors. <i>Australian Journal of Chemistry</i> , 2008, 61, 837. | 0.9 | 20 |
| 82 | Glycoprotein misfolding in the endoplasmic reticulum: identification of released oligosaccharides reveals a second ER-associated degradation pathway for Golgi-retrieved proteins. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 2799-2814. | 5.4 | 20 |
| 83 | Dynamic Structural Changes Accompany the Production of Dihydroxypropanesulfonate by Sulfolactaldehyde Reductase. <i>ACS Catalysis</i> , 2020, 10, 2826-2836. | 11.2 | 20 |
| 84 | Gas-Phase Structural and Optical Properties of Homo- and Heterobimetallic Rhombic Dodecahedral Nanoclusters [Ag ₁₄ Cu ₁₂](C ₆₀ H ₁₂) ₁₂ X ₁₂ (X = Cl, I) <i>ETQq</i> 2010 0 rgBT / 2017, 121, 10719-10727. | 3.1 | 20 |
| 85 | A convenient gram-scale synthesis of uridine diphosphoglucose. <i>Carbohydrate Research</i> , 2006, 341, 1743-1747. | 2.3 | 18 |
| 86 | A practical synthesis of long-chain iso-fatty acids (iso-C ₁₂ -C ₁₉) and related natural products. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 1807-1812. | 2.2 | 18 |
| 87 | Structural and mechanistic insights into a <i>Bacteroides vulgatus</i> retaining N-acetyl-β-galactosaminidase that uses neighbouring group participation. <i>Chemical Communications</i> , 2016, 52, 11096-11099. | 4.1 | 18 |
| 88 | Immune sensing of microbial glycolipids and related conjugates by T cells and the pattern recognition receptors MCL and MinCLE. <i>Carbohydrate Research</i> , 2016, 420, 32-45. | 2.3 | 18 |
| 89 | Discovery and characterization of a sulfoquinovose mutarotase using kinetic analysis at equilibrium by exchange spectroscopy. <i>Biochemical Journal</i> , 2018, 475, 1371-1383. | 3.7 | 18 |
| 90 | Comprehensive Synthesis of Substrates, Intermediates, and Products of the Sulfoglycolytic Embden-Meyerhoff-Parnas Pathway. <i>Journal of Organic Chemistry</i> , 2019, 84, 2901-2910. | 3.2 | 18 |

| # | ARTICLE | IF | CITATIONS |
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| 91 | Oxidative desulfurization pathway for complete catabolism of sulfoquinovose by bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, . | 7.1 | 18 |
| 92 | Vaccine efficacy of an attenuated but persistent <i>Mycobacterium tuberculosis</i> cysH mutant. <i>Journal of Medical Microbiology</i> , 2007, 56, 454-458. | 1.8 | 17 |
| 93 | Synthesis of glycoconjugate fragments of mycobacterial phosphatidylinositol mannosides and lipomannan. <i>Beilstein Journal of Organic Chemistry</i> , 2011, 7, 369-377. | 2.2 | 17 |
| 94 | Structural and Kinetic Dissection of the α -1,2-Mannanase Activity of Bacterial GH99 Glycoside Hydrolases from <i>Bacteroides</i> spp.. <i>Chemistry - A European Journal</i> , 2015, 21, 1966-1977. | 3.3 | 17 |
| 95 | Computational Design of Experiment Unveils the Conformational Reaction Coordinate of GH125 β -Mannosidases. <i>Journal of the American Chemical Society</i> , 2017, 139, 1085-1088. | 13.7 | 17 |
| 96 | Contribution of Shape and Charge to the Inhibition of a Family GH99 α -1,2-Mannanase. <i>Journal of the American Chemical Society</i> , 2017, 139, 1089-1097. | 13.7 | 17 |
| 97 | Distinct CD1d docking strategies exhibited by diverse Type II NKT cell receptors. <i>Nature Communications</i> , 2019, 10, 5242. | 12.8 | 17 |
| 98 | Lipidomic Profiling of Adipose Tissue Reveals an Inflammatory Signature in Cancer-Related and Primary Lymphedema. <i>PLoS ONE</i> , 2016, 11, e0154650. | 2.5 | 17 |
| 99 | Ground state structures of sulfate monoesters and sulfamates reveal similar reaction coordinates for sulfuryl and sulfamyl transfer. <i>Chemical Communications</i> , 2006, , 314-316. | 4.1 | 16 |
| 100 | FT-23, an orally active antifibrotic compound, attenuates structural and functional abnormalities in an experimental model of diabetic cardiomyopathy. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2012, 39, 650-656. | 1.9 | 16 |
| 101 | 3,4-Bis-difluoromethoxycinnamoylanthranilate (FT061): An orally-active antifibrotic agent that reduces albuminuria in a rat model of progressive diabetic nephropathy. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 6868-6873. | 2.2 | 16 |
| 102 | Molecular Basis of Sulfosugar Selectivity in Sulfoglycolysis. <i>ACS Central Science</i> , 2021, 7, 476-487. | 11.3 | 16 |
| 103 | Fixed-charge labels for simplified reaction analysis: 5-hydroxy-1,2,3-triazoles as byproducts of a copper(I)-catalyzed click reaction. <i>Tetrahedron Letters</i> , 2011, 52, 2750-2753. | 1.4 | 15 |
| 104 | Structure of human α -1,2-mannosidase (MANEA), an antiviral host-glycosylation target. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29595-29601. | 7.1 | 14 |
| 105 | A Sulfoglycolytic Entner-Doudoroff Pathway in <i>Rhizobium leguminosarum</i> bv. <i>trifolii</i> SRDI565. <i>Applied and Environmental Microbiology</i> , 2020, 86, . | 3.1 | 14 |
| 106 | Discovery of Water-Soluble Antioxidant Flavonols without Vasorelaxant Activity. <i>ChemMedChem</i> , 2008, 3, 1572-1579. | 3.2 | 13 |
| 107 | Galanin-3 Receptor Antagonism by SNAP 37889 Reduces Motivation to Self-administer Alcohol and Attenuates Cue-Induced Reinstatement of Alcohol-Seeking in <i>iP</i> Rats. <i>Journal of Pharmacological Sciences</i> , 2014, 125, 211-216. | 2.5 | 13 |
| 108 | Total Synthesis of <i>Mycobacterium tuberculosis</i> Dideoxymycobactin-38 and Stereoisomers: Diverse CD1a-Restricted T Cells Display a Common Hierarchy of Lipopeptide Recognition. <i>Chemistry - A European Journal</i> , 2017, 23, 1694-1701. | 3.3 | 13 |

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|-----|--|-----|-----------|
| 109 | A building block approach to the synthesis of a family of S-linked β -1,6-oligomannosides. Carbohydrate Research, 2016, 429, 38-47. | 2.3 | 12 |
| 110 | Lipid structure influences the ability of glucose monocorynomycolate to signal through Mincle. Organic and Biomolecular Chemistry, 2016, 14, 9267-9277. | 2.8 | 12 |
| 111 | Conformational Analysis of the Mannosidase Inhibitor Kifunensine: A Quantum Mechanical and Structural Approach. ChemBioChem, 2017, 18, 1496-1501. | 2.6 | 12 |
| 112 | 1,6-epithio- and 1,6-episeleno- β -d-glucopyranose: Useful adjuncts in the synthesis of 6-deoxy- β -d-glucopyranosides. Tetrahedron Letters, 1997, 38, 2741-2744. | 1.4 | 11 |
| 113 | Synthesis of a hypoxia-targeted conjugate of the cardioprotective agent 3,4-dihydroxyflavonol and evaluation of its ability to reduce ischaemia/reperfusion injury. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 5102-5106. | 2.2 | 11 |
| 114 | A new anti-fibrotic drug attenuates cardiac remodeling and systolic dysfunction following experimental myocardial infarction. International Journal of Cardiology, 2013, 168, 1174-1185. | 1.7 | 11 |
| 115 | Structure-reactivity correlations of the abnormal Beckmann reaction of dihydrolevoglucosenone oxime. Organic and Biomolecular Chemistry, 2017, 15, 10105-10115. | 2.8 | 11 |
| 116 | β -Glucuronosyl and β -glucosyl diacylglycerides, natural killer T cell-activating lipids from bacteria and fungi. Chemical Science, 2020, 11, 2161-2168. | 7.4 | 11 |
| 117 | Synthesis and evaluation of dithiolethiones as novel cyclooxygenase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 459-461. | 2.2 | 10 |
| 118 | Effects of 3,4-dihydroxyflavonol on vascular contractions of rat aortic rings. Clinical and Experimental Pharmacology and Physiology, 2010, 37, 803-810. | 1.9 | 10 |
| 119 | 2-Morpholinoisoflav-3-enes as flexible intermediates in the synthesis of phenoxodiol, isophenoxodiol, equol and analogues: Vasorelaxant properties, estrogen receptor binding and Rho/RhoA kinase pathway inhibition. Bioorganic and Medicinal Chemistry, 2012, 20, 2353-2361. | 3.0 | 10 |
| 120 | Quantitation in the regioselectivity of acylation of glycosyl diglycerides: total synthesis of a Streptococcus pneumoniae β -glucosyl diglyceride. Chemical Communications, 2017, 53, 1100-1103. | 4.1 | 10 |
| 121 | Synthetic β -1,2-Mannosyloxymannitol Glycolipid from the Fungus <i>Malassezia pachydermatis</i> Signals through Human Mincle. Journal of Organic Chemistry, 2019, 84, 6788-6797. | 3.2 | 10 |
| 122 | Aryl sulfamates are broad spectrum inactivators of sulfatases: Effects on sulfatases from various sources. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 477-480. | 2.2 | 9 |
| 123 | Spiroepoxyglycosides as Activity-Based Probes for Glycoside Hydrolase Family 99 Endomannosidase/Endomannanase. Chemistry - A European Journal, 2018, 24, 9983-9992. | 3.3 | 9 |
| 124 | Distortion of mannoimidazole supports a B _{2,5} boat transition state for the family GH125 β -1,6-mannosidase from Clostridium perfringens. Organic and Biomolecular Chemistry, 2019, 17, 7863-7869. | 2.8 | 9 |
| 125 | Cholesteryl 6-O-acyl- β -glucosides from diverse <i>Helicobacter</i> spp. signal through the C-type lectin receptor Mincle. Organic and Biomolecular Chemistry, 2020, 18, 7907-7915. | 2.8 | 9 |
| 126 | Discovery of Inhibitors of Leishmania β -1,2-Mannosyltransferases Using a Click-Chemistry-Derived Guanosine Monophosphate Library. PLoS ONE, 2012, 7, e32642. | 2.5 | 8 |

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