

# Gavin J Miller

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,365  
citations

471371

17  
h-index

395590

33  
g-index

63  
all docs

63  
docs citations

63  
times ranked

2066  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic Strategies for FRET-Enabled Carbohydrate Active Enzyme Probes. <i>Methods in Molecular Biology</i> , 2022, 2370, 237-264.	0.4	3
2	Chemical synthesis of 4 $\beta$ -thio and 4 $\beta$ -sulfinyl pyrimidine nucleoside analogues. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 1401-1406.	1.5	7
3	Oxidase enzymes as sustainable oxidation catalysts. <i>Royal Society Open Science</i> , 2022, 9, 211572.	1.1	20
4	Sweet targets: sugar nucleotide biosynthesis inhibitors. <i>Future Medicinal Chemistry</i> , 2022, 14, 295-298.	1.1	3
5	Design, chemical synthesis and antiviral evaluation of 2 $\beta$ -deoxy-2 $\beta$ -fluoro-2 $\beta$ -C-methyl-4 $\beta$ -thionucleosides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022, 61, 128605.	1.0	9
6	Advances in biocatalytic and chemoenzymatic synthesis of nucleoside analogues. <i>Expert Opinion on Drug Discovery</i> , 2022, 17, 355-364.	2.5	16
7	Using NMR to Dissect the Chemical Space and <i>O</i> -Sulfation Effects within the <i>O</i> - and <i>S</i> -Glycoside Analogues of Heparan Sulfate. <i>ACS Omega</i> , 2022, 7, 24461-24467.	1.6	6
8	Glycosaminoglycans from <i>Litopenaeus vannamei</i> Inhibit the Alzheimer's Disease $\beta$ Secretase, BACE1. <i>Marine Drugs</i> , 2021, 19, 203.	2.2	8
9	Chemical synthesis of C6-tetrazole $\alpha$ -mannose building blocks and access to a bioisostere of mannuronic acid 1-phosphate. <i>Beilstein Journal of Organic Chemistry</i> , 2021, 17, 1527-1532.	1.3	1
10	Developments in the Chemical Synthesis of Heparin and Heparan Sulfate. <i>Chemical Record</i> , 2021, 21, 3238-3255.	2.9	16
11	Prospects for anti-Candida therapy through targeting the cell wall: A mini-review. <i>Cell Surface</i> , 2021, 7, 100063.	1.5	8
12	Exploring anomeric glycosylation of phosphoric acid: Optimisation and scope for non-native substrates. <i>Carbohydrate Research</i> , 2020, 488, 107896.	1.1	3
13	Inhibition of the GDP-Mannose Dehydrogenase from <i>Pseudomonas aeruginosa</i> Using Targeted Sugar Nucleotide Probes. <i>ACS Chemical Biology</i> , 2020, 15, 3086-3092.	1.6	14
14	Unifying the synthesis of nucleoside analogs. <i>Science</i> , 2020, 369, 623-623.	6.0	8
15	Illuminating glycoscience: synthetic strategies for FRET-enabled carbohydrate active enzyme probes. <i>RSC Chemical Biology</i> , 2020, 1, 352-368.	2.0	4
16	Recent Advances in the Chemical Synthesis and Evaluation of Anticancer Nucleoside Analogues. <i>Molecules</i> , 2020, 25, 2050.	1.7	67
17	Chemical synthesis of a sulfated d-glucosamine library and evaluation of cell proliferation capabilities. <i>Carbohydrate Research</i> , 2020, 495, 108085.	1.1	1
18	Synthesis and Isolation of Diastereomeric Anomeric Sulfoxides from a d-Mannuronate Thioglycoside Building Block. <i>MolBank</i> , 2020, 2020, M1111.	0.2	1

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19	Heparin Inhibits Cellular Invasion by SARS-CoV-2: Structural Dependence of the Interaction of the Spike S1 Receptor-Binding Domain with Heparin. <i>Thrombosis and Haemostasis</i> , 2020, 120, 1700-1715.	1.8	228
20	Inhibition of BACE1, the $\beta$ -secretase implicated in Alzheimer's disease, by a chondroitin sulfate extract from <i>Sardina pilchardus</i> . <i>Neural Regeneration Research</i> , 2020, 15, 1546.	1.6	16
21	6R/S-deuterio- $\beta$ -D-mannopyranoside 1-phosphate. <i>MolBank</i> , 2019, 2019, M1068.	0.2	0
22	Chemical and enzymatic synthesis of the alginate sugar nucleotide building block: GDP-d-mannuronic acid. <i>Carbohydrate Research</i> , 2019, 485, 107819.	1.1	14
23	Chemoenzymatic Synthesis of C6-Modified Sugar Nucleotides To Probe the GDP-d-Mannose Dehydrogenase from <i>Pseudomonas aeruginosa</i> . <i>Organic Letters</i> , 2019, 21, 4415-4419.	2.4	24
24	Exploring a glycosylation methodology for the synthesis of hydroxamate-modified alginate building blocks. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 9321-9335.	1.5	8
25	Gas-liquid flow hydrogenation of nitroarenes: Efficient access to a pharmaceutically relevant pyrrolobenzo[1,4]diazepine scaffold. <i>Tetrahedron</i> , 2018, 74, 6795-6803.	1.0	10
26	Recent advances in the enzymatic synthesis of sugar-nucleotides using nucleotidyltransferases and glycosyltransferases. <i>Carbohydrate Research</i> , 2018, 469, 38-47.	1.1	29
27	Recent advances in the chemical synthesis of sugar-nucleotides. <i>Carbohydrate Research</i> , 2017, 451, 95-109.	1.1	35
28	1,2,3,4-Tetra-O-Acetyl- $\beta$ -D-Mannuronic Acid. <i>MolBank</i> , 2017, 2017, M947.	0.2	3
29	An Updated Synthesis of the Diazo-Transfer Reagent Imidazole-1-sulfonyl Azide Hydrogen Sulfate. <i>Journal of Organic Chemistry</i> , 2016, 81, 3443-3446.	1.7	56
30	Synthetic Site-Selectively Mono-6-O-Sulfated Heparan Sulfate Dodecasaccharide Shows Anti-Angiogenic Properties In Vitro and Sensitizes Tumors to Cisplatin In Vivo. <i>PLoS ONE</i> , 2016, 11, e0159739.	1.1	8
31	Modular Synthesis of Heparin-Related Tetra-, Hexa- and Octasaccharides with Differential O-6 Protections: Programming for Regiodefined 6-O-Modifications. <i>Molecules</i> , 2015, 20, 6167-6180.	1.7	12
32	Amyl nitrite-mediated conversion of aromatic and heteroaromatic primary amides to carboxylic acids. <i>Tetrahedron Letters</i> , 2015, 56, 5153-5156.	0.7	7
33	Synthesis of $\alpha$ -Iduronic Acid Derivatives via [3.2.1] and [2.2.2] $\alpha$ -Iduronic Lactones from Bulk Glucose-Derived Cyanohydrin Hydrolysis: A Reversible Conformationally Switched Superdisarmed/Rearmed Lactone Route to Heparin Disaccharides. <i>Journal of Organic Chemistry</i> , 2015, 80, 3777-3789.	1.7	17
34	Synthetic heparan sulfate dodecasaccharides reveal single sulfation site interconverts CXCL8 and CXCL12 chemokine biology. <i>Chemical Communications</i> , 2015, 51, 13846-13849.	2.2	35
35	A latent reactive handle for functionalising heparin-like and LMWH deca- and dodecasaccharides. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 11208-11219.	1.5	10
36	Making the longest sugars: a chemical synthesis of heparin-related [4] <sub>n</sub> oligosaccharides from 16-mer to 40-mer. <i>Chemical Science</i> , 2015, 6, 6158-6164.	3.7	77

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37	Abstract 1375: Development of synthetic heparan sulfate oligosaccharides as anti-angiogenic agents. , 2015, , .		0
38	The development of anti-angiogenic heparan sulfate oligosaccharides. Biochemical Society Transactions, 2014, 42, 1596-1600.	1.6	6
39	Synthesis of a heparin-related GlcNAc <sup>6</sup> IdoA sulfation-site variable disaccharide library and analysis by Raman and ROA spectroscopy. Carbohydrate Research, 2014, 400, 44-53.	1.1	17
40	Small-Molecule-Induced Clustering of Heparan Sulfate Promotes Cell Adhesion. Journal of the American Chemical Society, 2013, 135, 11032-11039.	6.6	25
41	Efficient chemical synthesis of heparin-like octa-, deca- and dodecasaccharides and inhibition of FGF2- and VEGF165-mediated endothelial cell functions. Chemical Science, 2013, 4, 3218.	3.7	36
42	First Gram-Scale Synthesis of a Heparin-Related Dodecasaccharide. Organic Letters, 2013, 15, 88-91.	2.4	46
43	Tetrasaccharide iteration synthesis of a heparin-like dodecasaccharide and radiolabelling for in vivo tissue distribution studies. Nature Communications, 2013, 4, 2016.	5.8	50
44	Selection of a Novel Anti-Nicotine Vaccine: Influence of Antigen Design on Antibody Function in Mice. PLoS ONE, 2013, 8, e76557.	1.1	71
45	Synthesis and Scalable Conversion of <i>l</i> -Iduronamides to Heparin-Related Di- and Tetrasaccharides. Journal of Organic Chemistry, 2012, 77, 7823-7843.	1.7	42
46	A synthesis of C-glycosidic multivalent mannosides suitable for divergent functionalized conjugation. Tetrahedron Letters, 2011, 52, 3216-3218.	0.7	3
47	Adaptable Synthesis of <i>C</i> -Glycosidic Multivalent Carbohydrates and Succinamide-Linked Derivatization. Organic Letters, 2010, 12, 5262-5265.	2.4	17
48	Thieme Chemistry Journal Awardees - Where are They Now? Synthesis of the Marine Glycolipid Dioctadecanoyl Discoside. Synlett, 2009, 2009, 3099-3102.	1.0	3
49	Biology-enabling inositol phosphates, phosphatidylinositol phosphates and derivatives. Natural Product Reports, 2007, 24, 687.	5.2	65
50	Preparation of Methyl 1,2,3,4-tetra-O-acetyl- $\beta$ -D-glucopyranuronate. Organic Syntheses, 0, 93, 200-209.	1.0	2