

Peter H Seeberger

List of Publications by Citations

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556
papers

26,790
citations

82
h-index

135
g-index

598
ext. papers

30,176
ext. citations

8.8
avg, IF

7.63
L-index

#	Paper	IF	Citations
556	The Hitchhiker's Guide to Flow Chemistry . <i>Chemical Reviews</i> , 2017 , 117, 11796-11893	68.1	933
555	Automated solid-phase synthesis of oligosaccharides. <i>Science</i> , 2001 , 291, 1523-7	33.3	708
554	Synthesis and medical applications of oligosaccharides. <i>Nature</i> , 2007 , 446, 1046-51	50.4	596
553	Symbol Nomenclature for Graphical Representations of Glycans. <i>Glycobiology</i> , 2015 , 25, 1323-4	5.8	585
552	Detection of bacteria with carbohydrate-functionalized fluorescent polymers. <i>Journal of the American Chemical Society</i> , 2004 , 126, 13343-6	16.4	422
551	Solid-phase oligosaccharide synthesis and combinatorial carbohydrate libraries. <i>Chemical Reviews</i> , 2000 , 100, 4349-94	68.1	416
550	Continuous-flow synthesis of the anti-malaria drug artemisinin. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1706-9	16.4	415
549	Synthetic GPI as a candidate anti-toxic vaccine in a model of malaria. <i>Nature</i> , 2002 , 418, 785-9	50.4	404
548	Applying flow chemistry: methods, materials, and multistep synthesis. <i>Journal of Organic Chemistry</i> , 2013 , 78, 6384-9	4.2	392
547	Microreactors as tools for synthetic chemists-the chemists' round-bottomed flask of the 21st century?. <i>Chemistry - A European Journal</i> , 2006 , 12, 8434-42	4.8	388
546	Automated oligosaccharide synthesis. <i>Chemical Society Reviews</i> , 2008 , 37, 19-28	58.5	265
545	The use of carbohydrate microarrays to study carbohydrate-cell interactions and to detect pathogens. <i>Chemistry and Biology</i> , 2004 , 11, 1701-7		257
544	Identification of carbohydrate anomers using ion mobility-mass spectrometry. <i>Nature</i> , 2015 , 526, 241-4	50.4	223
543	Oligosaccharide and glycoprotein microarrays as tools in HIV glycobiochemistry; glycan-dependent gp120/protein interactions. <i>Chemistry and Biology</i> , 2004 , 11, 875-81		217
542	In vitro imaging and in vivo liver targeting with carbohydrate capped quantum dots. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2110-2	16.4	215
541	Exploring the structural diversity of mammalian carbohydrates ("glycospace") by statistical databank analysis. <i>ACS Chemical Biology</i> , 2007 , 2, 685-91	4.9	210
540	Microarrays of synthetic heparin oligosaccharides. <i>Journal of the American Chemical Society</i> , 2006 , 128, 2766-7	16.4	205

539	Automated synthesis of oligosaccharides as a basis for drug discovery. <i>Nature Reviews Drug Discovery</i> , 2005 , 4, 751-63	64.1	202
538	Modular synthesis of heparin oligosaccharides. <i>Chemistry - A European Journal</i> , 2003 , 9, 140-69	4.8	184
537	Carbohydrates in Supramolecular Chemistry. <i>Chemical Reviews</i> , 2016 , 116, 1693-752	68.1	177
536	Highly efficient continuous flow reactions using singlet oxygen as a "green" reagent. <i>Organic Letters</i> , 2011 , 13, 5008-11	6.2	172
535	Tools for glycomics: mapping interactions of carbohydrates in biological systems. <i>ChemBioChem</i> , 2004 , 5, 1375-83	3.8	172
534	A continuous-flow process for the synthesis of artemisinin. <i>Chemistry - A European Journal</i> , 2013 , 19, 5450-6	4.8	165
533	Carbohydrates as the next frontier in pharmaceutical research. <i>Chemistry - A European Journal</i> , 2005 , 11, 3194-206	4.8	164
532	Carbohydrate arrays as tools for research and diagnostics. <i>Chemical Society Reviews</i> , 2008 , 37, 1414-22	58.5	162
531	Probing protein-carbohydrate interactions with microarrays of synthetic oligosaccharides. <i>ChemBioChem</i> , 2004 , 5, 379-82	3.8	160
530	Oligosaccharide synthesis with glycosyl phosphate and dithiophosphate triesters as glycosylating agents. <i>Journal of the American Chemical Society</i> , 2001 , 123, 9545-54	16.4	159
529	Preparation and use of microarrays containing synthetic heparin oligosaccharides for the rapid analysis of heparin-protein interactions. <i>Chemistry - A European Journal</i> , 2006 , 12, 8664-86	4.8	156
528	The logic of automated glycan assembly. <i>Accounts of Chemical Research</i> , 2015 , 48, 1450-63	24.3	155
527	Microreactor-based reaction optimization in organic chemistry--glycosylation as a challenge. <i>Chemical Communications</i> , 2005 , 578-80	5.8	147
526	Structures of the complexes of a potent anti-HIV protein cyanovirin-N and high mannose oligosaccharides. <i>Journal of Biological Chemistry</i> , 2002 , 277, 34336-42	5.4	141
525	Profiling heparin-chemokine interactions using synthetic tools. <i>ACS Chemical Biology</i> , 2007 , 2, 735-44	4.9	140
524	Applications of synthetic carbohydrates to chemical biology. <i>Current Opinion in Chemical Biology</i> , 2010 , 14, 404-11	9.7	134
523	Automated solid-phase synthesis of chondroitin sulfate glycosaminoglycans. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5858-61	16.4	132
522	Total synthesis of antigen bacillus anthracis tetrasaccharide--creation of an anthrax vaccine candidate. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 6315-8	16.4	129

- 521 Synthesis and use of glycosyl phosphates as glycosyl donors. *Organic Letters*, **1999**, 1, 211-4 6.2 128
- 520 Continuous-flow oxidative cyanation of primary and secondary amines using singlet oxygen. *Angewandte Chemie - International Edition*, **2014**, 53, 557-61 16.4 126
- 519 2009 Claude S. Hudson Award in Carbohydrate Chemistry. Carbohydrates: a frontier in medicinal chemistry. *Journal of Medicinal Chemistry*, **2009**, 52, 5561-77 8.3 124
- 518 Asymmetric reactions in continuous flow. *Beilstein Journal of Organic Chemistry*, **2009**, 5, 19 2.5 121
- 517 Automated synthesis of the tumor-associated carbohydrate antigens Gb-3 and Globo-H: incorporation of alpha-galactosidic linkages. *Journal of the American Chemical Society*, **2007**, 129, 2770-1 16.4 121
- 516 Carbohydrate arrays as tools for glycomics. *Angewandte Chemie - International Edition*, **2002**, 41, 3583-6, 3513 16.4 121
- 515 Chemical biology approaches to designing defined carbohydrate vaccines. *Chemistry and Biology*, **2014**, 21, 38-50 120
- 514 Chemical approaches to define the structure-activity relationship of heparin-like glycosaminoglycans. *Chemistry and Biology*, **2005**, 12, 731-56 119
- 513 Natural cytotoxicity receptors NKp30, NKp44 and NKp46 bind to different heparan sulfate/heparin sequences. *Journal of Proteome Research*, **2009**, 8, 712-20 5.6 118
- 512 Streamlined access to conjugation-ready glycans by automated synthesis. *Chemical Science*, **2012**, 3, 1617-9 6.4 117
- 511 Multiple modes of binding enhance the affinity of DC-SIGN for high mannose N-linked glycans found on viral glycoproteins. *Journal of Biological Chemistry*, **2007**, 282, 4202-9 5.4 117
- 510 Continuous flow photochemistry. *Chemical Record*, **2014**, 14, 410-8 6.6 115
- 509 The affinity of the FimH fimbrial adhesin is receptor-driven and quasi-independent of Escherichia coli pathotypes. *Molecular Microbiology*, **2006**, 61, 1556-68 4.1 113
- 508 5-(Pyrrolidin-2-yl)tetrazole-catalyzed aldol and mannich reactions: acceleration and lower catalyst loading in a continuous-flow reactor. *Angewandte Chemie - International Edition*, **2009**, 48, 2699-702 16.4 111
- 507 Rapid synthesis of a glycosylphosphatidylinositol-based malaria vaccine using automated solid-phase oligosaccharide synthesis. *Journal of the American Chemical Society*, **2002**, 124, 13434-6 16.4 111
- 506 Synthetic GPI array to study antitoxic malaria response. *Nature Chemical Biology*, **2008**, 4, 238-40 11.7 109
- 505 Continuous synthesis of artemisinin-derived medicines. *Chemical Communications*, **2014**, 50, 12652-5 5.8 108
- 504 Solid-phase oligosaccharide synthesis: preparation of complex structures using a novel linker and different glycosylating agents. *Organic Letters*, **1999**, 1, 1811-4 6.2 107

503	Quantitative mapping of glycoprotein micro-heterogeneity and macro-heterogeneity: an evaluation of mass spectrometry signal strengths using synthetic peptides and glycopeptides. <i>Journal of Mass Spectrometry</i> , 2013 , 48, 627-39	2.2	104
502	Automated solid-phase synthesis of protected tumor-associated antigen and blood group determinant oligosaccharides. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 602-5	16.4	104
501	Multivalency at Interfaces: Supramolecular Carbohydrate-Functionalized Graphene Derivatives for Bacterial Capture, Release, and Disinfection. <i>Nano Letters</i> , 2015 , 15, 6051-7	11.5	102
500	Carbohydrate-lectin recognition of sequence-defined heteromultivalent glycooligomers. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2008-16	16.4	101
499	Comparative bioinformatics analysis of the mammalian and bacterial glycomes. <i>Chemical Science</i> , 2011 , 2, 337-344	9.4	99
498	A mannan binding lectin is involved in cell-cell attachment in a toxic strain of <i>Microcystis aeruginosa</i> . <i>Molecular Microbiology</i> , 2006 , 59, 893-906	4.1	98
497	Solid-Phase Synthesis of Oligosaccharides and Glycoconjugates by the Glycal Assembly Method: A Five Year Retrospective. <i>Accounts of Chemical Research</i> , 1998 , 31, 685-695	24.3	97
496	Kontinuierliche Synthese des Malariawirkstoffs Artemisinin. <i>Angewandte Chemie</i> , 2012 , 124, 1738-1741	3.6	95
495	Anti-carbohydrate antibodies for the detection of anthrax spores. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 6581-2	16.4	94
494	Chemical synthesis of all phosphatidylinositol mannoside (PIM) glycans from <i>Mycobacterium tuberculosis</i> . <i>Journal of the American Chemical Society</i> , 2008 , 130, 16791-9	16.4	93
493	Halobenzyl Ethers as Protecting Groups for Organic Synthesis. <i>Journal of the American Chemical Society</i> , 2000 , 122, 7148-7149	16.4	93
492	Recent advances in carbohydrate-based vaccines. <i>Current Opinion in Chemical Biology</i> , 2009 , 13, 354-9	9.7	92
491	Synthesis of fullerene glycoconjugates via a copper-catalyzed Huisgen cycloaddition reaction. <i>Organic Letters</i> , 2007 , 9, 4611-4	6.2	92
490	Continuous Heterogeneous Photocatalysis in Serial Micro-Batch Reactors. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9976-9979	16.4	90
489	Coupling of Glycal Derived Thioethyl Glycosyl Donors with Glycal Acceptors. An Advance in the Scope of the Glycal Assembly. <i>Journal of the American Chemical Society</i> , 1997 , 119, 10064-10072	16.4	90
488	Automated carbohydrate synthesis to drive chemical glycomics. <i>Chemical Communications</i> , 2003 , 1115-238	3.8	90
487	Glycomics, glycoproteomics and the immune system. <i>Current Opinion in Chemical Biology</i> , 2012 , 16, 214-207	20.7	89
486	Oligosaccharide synthesis in microreactors. <i>Organic Letters</i> , 2007 , 9, 2285-8	6.2	89

485	Total synthesis of phosphatidylinositol mannosides of Mycobacterium tuberculosis. <i>Journal of the American Chemical Society</i> , 2006 , 128, 3638-48	16.4	89
484	Glycan Fingerprinting via Cold-Ion Infrared Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11248-11251	16.4	88
483	Synthesis of carbohydrate-functionalized quantum dots in microreactors. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 2054-7	16.4	86
482	Microreactor synthesis of beta-peptides. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 7000-3	16.4	86
481	Automated synthesis of arabinoxylan-oligosaccharides enables characterization of antibodies that recognize plant cell wall glycans. <i>Chemistry - A European Journal</i> , 2015 , 21, 5709-13	4.8	85
480	A concise flow synthesis of efavirenz. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4945-8	16.4	85
479	A possible oligosaccharide-conjugate vaccine candidate for Clostridium difficile is antigenic and immunogenic. <i>Chemistry and Biology</i> , 2011 , 18, 580-8		85
478	"Cap-Tag"-Novel Methods for the Rapid Purification of Oligosaccharides Prepared by Automated Solid-Phase Synthesis Financial support from the donors of the Petroleum Research Fund, administered by the ACS (ACS-PRF 34649-G1), Merck (Predoctoral Fellowship for E.R.P.), Boehringer-Ingelheim (Predoctoral Fellowship for E.R.P.), and the NIH (Biotechnology Training Methicillin-resistant Staphylococcus aureus alters cell wall glycosylation to evade immunity. <i>Nature</i> , 2018 , 563, 705-709 (E-9808061). Funding for the MIT-DCIF. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 1433-1437	16.4	85
477	Methicillin-resistant Staphylococcus aureus alters cell wall glycosylation to evade immunity. <i>Nature</i> , 2018 , 563, 705-709 (E-9808061). Funding for the MIT-DCIF. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 1433-1437	50.4	85
476	A Highly Convergent Total Synthetic Route to Glycopeptides Carrying a High-Mannose Core Pentasaccharide Domain N-linked to a Natural Peptide Motif. <i>Chemistry - A European Journal</i> , 1997 , 3, 1617-1628	4.8	84
475	Semisynthesis of a glycosylphosphatidylinositol-anchored prion protein. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8215-9	16.4	84
474	The Art of Destruction: Optimizing Collision Energies in Quadrupole-Time of Flight (Q-TOF) Instruments for Glycopeptide-Based Glycoproteomics. <i>Journal of the American Society for Mass Spectrometry</i> , 2016 , 27, 507-19	3.5	82
473	Automated solid-phase synthesis of E-mannuronic acid alginates. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4393-6	16.4	81
472	Potential of fibroblast growth factor activity by synthetic heparin oligosaccharide glycodendrimers. <i>Chemistry and Biology</i> , 2007 , 14, 879-87		80
471	Visible-light-mediated photochemistry: accelerating Ru(bpy) ₃ ²⁺ -catalyzed reactions in continuous flow. <i>Chemical Science</i> , 2012 , 3, 1612	9.4	79
470	Automated polysaccharide synthesis: assembly of a 30mer mannoside. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5862-5	16.4	79
469	Cantilever array sensors detect specific carbohydrate-protein interactions with picomolar sensitivity. <i>ACS Nano</i> , 2011 , 5, 3670-8	16.7	79
468	Synthesis of a core arabinomannan oligosaccharide of Mycobacterium tuberculosis. <i>Journal of Organic Chemistry</i> , 2006 , 71, 8071-88	4.2	79

- 467 Carbohydrate diversity: synthesis of glycoconjugates and complex carbohydrates. *Current Opinion in Biotechnology*, **2004**, 15, 615-22 11.4 79
- 466 Multisite and multivalent binding between cyanovirin-N and branched oligomannosides: calorimetric and NMR characterization. *Chemistry and Biology*, **2002**, 9, 1109-18 79
- 465 Linear synthesis of a protected H-type II pentasaccharide using glycosyl phosphate building blocks. *Journal of Organic Chemistry*, **2001**, 66, 8165-76 4.2 79
- 464 Automated solid-phase synthesis of protected oligosaccharides containing beta-mannosidic linkages. *Chemistry - A European Journal*, **2008**, 14, 3987-94 4.8 78
- 463 Efficient installation of beta-mannosides using a dehydrative coupling strategy. *Organic Letters*, **2005**, 7, 3251-4 6.2 78
- 462 Immunological evaluation of a synthetic *Clostridium difficile* oligosaccharide conjugate vaccine candidate and identification of a minimal epitope. *Journal of the American Chemical Society*, **2013**, 135, 9713-22 16.4 77
- 461 Automated Glycan Assembly: A Perspective. *Journal of the American Chemical Society*, **2019**, 141, 5581-5584 76
- 460 A semisynthetic carbohydrate-lipid vaccine that protects against *S. pneumoniae* in mice. *Nature Chemical Biology*, **2014**, 10, 950-6 11.7 76
- 459 Differential adeno-associated virus serotype-specific interaction patterns with synthetic heparins and other glycans. *Journal of Virology*, **2014**, 88, 2991-3003 6.6 76
- 458 Optimization of localized surface plasmon resonance transducers for studying carbohydrate-protein interactions. *Analytical Chemistry*, **2012**, 84, 232-40 7.8 76
- 457 Automated glycan assembly using the Glycoconer 2.1 synthesizer. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E3385-E3389 11.5 75
- 456 Continuous synthesis and purification by direct coupling of a flow reactor with simulated moving-bed chromatography. *Angewandte Chemie - International Edition*, **2012**, 51, 7028-30 16.4 75
- 455 Hexameric supramolecular scaffold orients carbohydrates to sense bacteria. *Journal of the American Chemical Society*, **2011**, 133, 13957-66 16.4 75
- 454 Combined approaches to the synthesis and study of glycoproteins. *ACS Chemical Biology*, **2009**, 4, 703-13 4.9 75
- 453 Distinguishing N-acetylneuraminic acid linkage isomers on glycopeptides by ion mobility-mass spectrometry. *Chemical Communications*, **2016**, 52, 4381-4 5.8 74
- 452 *Caenorhabditis elegans* N-glycan core beta-galactoside confers sensitivity towards nematotoxic fungal galectin CGL2. *PLoS Pathogens*, **2010**, 6, e1000717 7.6 74
- 451 Solution and solid-support synthesis of a potential leishmaniasis carbohydrate vaccine. *Journal of Organic Chemistry*, **2001**, 66, 4233-43 4.2 74
- 450 Design, synthesis and biological evaluation of carbohydrate-functionalized cyclodextrins and liposomes for hepatocyte-specific targeting. *Organic and Biomolecular Chemistry*, **2010**, 8, 4987-96 3.9 69

449	Monitoring the Progress of Solid-Phase Oligosaccharide Synthesis by High-Resolution Magic Angle Spinning NMR: Observations of Enhanced Selectivity for β -Glycoside Formation from β 1,2-Anhydrosugar Donors in Solid-Phase Couplings. <i>Angewandte Chemie International Edition in English</i> , 1997 , 36, 491-493		69
448	Synthesis of carbohydrate-functionalised sequence-defined oligo(amidoamine)s by photochemical thiol-ene coupling in a continuous flow reactor. <i>Chemistry - A European Journal</i> , 2013 , 19, 3090-8	4.8	68
447	Convergent synthesis of a fully lipidated glycosylphosphatidylinositol anchor of Plasmodium falciparum. <i>Journal of the American Chemical Society</i> , 2005 , 127, 5004-5	16.4	67
446	Semi-heterogeneous Dual Nickel/Photocatalysis using Carbon Nitrides: Esterification of Carboxylic Acids with Aryl Halides. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9575-9580	16.4	66
445	Carbohydrate-mediated targeting of antigen to dendritic cells leads to enhanced presentation of antigen to T cells. <i>ChemBioChem</i> , 2008 , 9, 294-303	3.8	66
444	Continuous flow photolysis of aryl azides: Preparation of 3H-azepinones. <i>Beilstein Journal of Organic Chemistry</i> , 2011 , 7, 1124-1129	2.5	65
443	Synthesis of a sialic acid α (2-3) galactose building block and its use in a linear synthesis of sialyl Lewis X. <i>Organic Letters</i> , 2007 , 9, 1777-9	6.2	64
442	Enhancement of the immunogenicity of synthetic carbohydrates by conjugation to virosomes: a leishmaniasis vaccine candidate. <i>ACS Chemical Biology</i> , 2006 , 1, 161-4	4.9	64
441	Chemical biology of glycosylphosphatidylinositol anchors. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11438-56	16.4	62
440	Accelerated Continuous Flow RAFT Polymerization. <i>Macromolecules</i> , 2010 , 43, 10311-10314	5.5	62
439	Chemical glycobiology: why now?. <i>Nature Chemical Biology</i> , 2009 , 5, 368-72	11.7	62
438	De novo synthesis of uronic acid building blocks for assembly of heparin oligosaccharides. <i>Chemistry - A European Journal</i> , 2007 , 13, 4510-22	4.8	61
437	Automated radial synthesis of organic molecules. <i>Nature</i> , 2020 , 579, 379-384	50.4	60
436	Total Synthesis of Polysaccharides by Automated Glycan Assembly. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8561-8564	16.4	60
435	Tumour-Targeted Drug Delivery with Mannose-Functionalized Nanoparticles Self-Assembled from Amphiphilic β -Cyclodextrins. <i>Chemistry - A European Journal</i> , 2016 , 22, 15216-15221	4.8	60
434	Glycan Arrays: From Basic Biochemical Research to Bioanalytical and Biomedical Applications. <i>Annual Review of Analytical Chemistry</i> , 2016 , 9, 223-47	12.5	60
433	A platform to screen for C-type lectin receptor-binding carbohydrates and their potential for cell-specific targeting and immune modulation. <i>Journal of Controlled Release</i> , 2014 , 175, 36-42	11.7	60
432	Imaging early endothelial inflammation following stroke by core shell silica superparamagnetic glyconanoparticles that target selectin. <i>Nano Letters</i> , 2014 , 14, 2130-4	11.5	60

431	A semisynthetic serotype 8 glycoconjugate vaccine. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	59
430	Semiheterogeneous Dual Nickel/Photocatalytic (Thio)etherification Using Carbon Nitrides. <i>Organic Letters</i> , 2019 , 21, 5331-5334	6.2	58
429	Linear synthesis of the tumor-associated carbohydrate antigens Globo-H, SSEA-3, and Gb3. <i>Journal of Organic Chemistry</i> , 2002 , 67, 6659-70	4.2	58
428	Glycan arrays as tools for infectious disease research. <i>Current Opinion in Chemical Biology</i> , 2014 , 18, 38-45.7		57
427	Chemical assembly systems: layered control for divergent, continuous, multistep syntheses of active pharmaceutical ingredients. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 678-82	16.4	57
426	Discrimination of <i>Escherichia coli</i> strains using glycan cantilever array sensors. <i>Nano Letters</i> , 2012 , 12, 420-3	11.5	57
425	Natural <i>Sphingomonas</i> glycolipids vary greatly in their ability to activate natural killer T cells. <i>Chemistry and Biology</i> , 2008 , 15, 654-64		57
424	Synthesis of C-aryl and C-alkyl glycosides using glycosyl phosphates. <i>Organic Letters</i> , 2001 , 3, 1547-50	6.2	57
423	Automated synthesis of a protected N-linked glycoprotein core pentasaccharide. <i>Organic Letters</i> , 2003 , 5, 4717-20	6.2	56
422	Automated assembly of oligosaccharides containing multiple cis-glycosidic linkages. <i>Nature Communications</i> , 2016 , 7, 12482	17.4	55
421	Advancing Solutions to the Carbohydrate Sequencing Challenge. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14463-14479	16.4	55
420	Molecular analysis of carbohydrate-antibody interactions: case study using a <i>Bacillus anthracis</i> tetrasaccharide. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10239-41	16.4	55
419	Evaluation of a Group A <i>Streptococcus</i> synthetic oligosaccharide as vaccine candidate. <i>Vaccine</i> , 2010 , 29, 104-14	4.1	55
418	Janus Emulsions for the Detection of Bacteria. <i>ACS Central Science</i> , 2017 , 3, 309-313	16.8	54
417	Well-Defined Oligo- and Polysaccharides as Ideal Probes for Structural Studies. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5421-5426	16.4	54
416	Probing glycomics. <i>Current Opinion in Chemical Biology</i> , 2007 , 11, 59-65	9.7	54
415	A stereochemical surprise at the late stage of the synthesis of fully N-differentiated heparin oligosaccharides containing amino, acetamido, and N-sulfonate groups. <i>Journal of Organic Chemistry</i> , 2004 , 69, 4081-93	4.2	54
414	Conformational Locking of the Glycosyl Acceptor for Stereocontrol in the Key Step in the Synthesis of Heparin. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 2128	16.4	54

- 4¹³ Lectin biosensing using digital analysis of Ru(II)-glycodendrimers. *Journal of the American Chemical Society*, **2010**, 132, 10230-2 16.4 53
- 4¹² Automated solid-phase synthesis of a branched Leishmania cap tetrasaccharide. *Organic Letters*, **2001**, 3, 3699-702 6.2 53
- 4¹¹ Chemoenzymatic synthesis of differentially protected 3-deoxysugars. *Nature Chemistry*, **2010**, 2, 102-5 17.6 52
- 4¹⁰ Aminoglycoside microarrays to study antibiotic resistance. *Angewandte Chemie - International Edition*, **2004**, 43, 1591-4 16.4 52
- 4⁰⁹ Aminoglycoside microarrays to explore interactions of antibiotics with RNAs and proteins. *Chemistry - A European Journal*, **2004**, 10, 3308-14 4.8 52
- 4⁰⁸ Assembly of a series of malarial glycosylphosphatidylinositol anchor oligosaccharides. *Chemistry - A European Journal*, **2005**, 11, 2493-504 4.8 52
- 4⁰⁷ Energy-Efficient Solar Photochemistry with Luminescent Solar Concentrator Based Photomicroreactors. *Angewandte Chemie - International Edition*, **2019**, 58, 14374-14378 16.4 51
- 4⁰⁶ Alpha1,4GlcNAc-capped mucin-type O-glycan inhibits cholesterol alpha-glucosyltransferase from Helicobacter pylori and suppresses H. pylori growth. *Glycobiology*, **2008**, 18, 549-58 5.8 51
- 4⁰⁵ Merging organic and polymer chemistries to create glycomaterials for glycomics applications. *Macromolecular Bioscience*, **2006**, 6, 634-47 5.5 51
- 4⁰⁴ Microarrays of heparin oligosaccharides obtained by nitrous acid depolymerization of isolated heparin. *Chemical Communications*, **2006**, 3116-8 5.8 51
- 4⁰³ Encoded fiber-optic microsphere arrays for probing protein-carbohydrate interactions. *Angewandte Chemie - International Edition*, **2003**, 42, 5317-20 16.4 51
- 4⁰² Analysis of Carbohydrate-Carbohydrate Interactions Using Sugar-Functionalized Silicon Nanoparticles for Cell Imaging. *Nano Letters*, **2016**, 16, 807-11 11.5 50
- 4⁰¹ Toward animal cell culture-based influenza vaccine design: viral hemagglutinin N-glycosylation markedly impacts immunogenicity. *Journal of Immunology*, **2013**, 190, 220-30 5.3 50
- 4⁰⁰ Detection of bacteria using glyco-dendronized polylysine prepared by continuous flow photofunctionalization. *Nano Letters*, **2011**, 11, 73-8 11.5 50
- 399 Synthesis of glycosyl phosphates from 1,2-orthoesters and application to in situ glycosylation reactions. *Organic Letters*, **2006**, 8, 1815-8 6.2 50
- 398 Multivalent display of minimal Clostridium difficile glycan epitopes mimics antigenic properties of larger glycans. *Nature Communications*, **2016**, 7, 11224 17.4 49
- 397 An Empirical Understanding of the Glycosylation Reaction. *Journal of the American Chemical Society*, **2018**, 140, 11942-11953 16.4 49
- 396 Heparan sulfate proteoglycans containing a glypican 5 core and 2-O-sulfo-iduronic acid function as Sonic Hedgehog co-receptors to promote proliferation. *Journal of Biological Chemistry*, **2013**, 288, 26275-26288 5.4 49

395	Determination of carbohydrate-binding preferences of human galectins with carbohydrate microarrays. <i>ChemBioChem</i> , 2010 , 11, 1563-73	3.8	49
394	Solid Support Oligosaccharide Synthesis: Construction of β -Linked Oligosaccharides by Coupling of Glycal Derived Thioethyl Glycosyl Donors. <i>Journal of Organic Chemistry</i> , 1998 , 63, 1126-1130	4.2	49
393	Targeted Photodynamic Killing of Breast Cancer Cells Employing Heptamannosylated β -Cyclodextrin-Mediated Nanoparticle Formation of an Adamantane-Functionalized BODIPY Photosensitizer. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33405-33411	9.5	49
392	COPII coat composition is actively regulated by luminal cargo maturation. <i>Current Biology</i> , 2015 , 25, 152-162	4.6	48
391	The promise of glycomics, glycan arrays and carbohydrate-based vaccines. <i>Immunopharmacology and Immunotoxicology</i> , 2010 , 32, 196-207	3.2	48
390	Combinatorial carbohydrate chemistry. <i>Current Opinion in Chemical Biology</i> , 2002 , 6, 289-96	9.7	48
389	Gut microbiota-specific IgA B cells traffic to the CNS in active multiple sclerosis. <i>Science Immunology</i> , 2020 , 5,	28	48
388	Total synthesis of legionaminic acid as basis for serological studies. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2848-51	16.4	47
387	How to approach flow chemistry. <i>Chemical Society Reviews</i> , 2020 , 49, 8910-8932	58.5	46
386	Literally Green Chemical Synthesis of Artemisinin from Plant Extracts. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 5525-5528	16.4	46
385	Automated solid-phase synthesis of a β (1,3)-glucan dodecasaccharide. <i>Chemistry - A European Journal</i> , 2013 , 19, 12497-503	4.8	46
384	Microbe-focused glycan array screening platform. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 1958-1967	11.5	45
383	A Semi-synthetic Oligosaccharide Conjugate Vaccine Candidate Confers Protection against <i>Streptococcus pneumoniae</i> Serotype 3 Infection. <i>Cell Chemical Biology</i> , 2016 , 23, 1407-1416	8.2	45
382	A Semi-Synthetic Glycoconjugate Vaccine Candidate for Carbapenem-Resistant <i>Klebsiella pneumoniae</i> . <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13973-13978	16.4	45
381	Total synthesis of the core tetrasaccharide of <i>Neisseria meningitidis</i> lipopolysaccharide, a potential vaccine candidate for meningococcal diseases. <i>Chemical Science</i> , 2012 , 3, 896-899	9.4	45
380	Total synthesis of the <i>Bacteroides fragilis</i> zwitterionic polysaccharide A1 repeating unit. <i>Journal of the American Chemical Society</i> , 2011 , 133, 102-7	16.4	45
379	Automated carbohydrate synthesis as platform to address fundamental aspects of glycobiology--current status and future challenges. <i>Carbohydrate Research</i> , 2008 , 343, 1889-96	2.9	45
378	Carbohydrate microarrays as tools in HIV glycobiology. <i>Current Pharmaceutical Design</i> , 2007 , 13, 173-83	3.3	44

377	Synthesis of iduronic acid building blocks for the modular assembly of glycosaminoglycans. <i>Journal of Organic Chemistry</i> , 2003 , 68, 7559-61	4.2	44
376	Short de novo synthesis of fully functionalized uronic acid monosaccharides. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 7605-7	16.4	44
375	A <i>Streptococcus pneumoniae</i> Type 2 Oligosaccharide Glycoconjugate Elicits Opsonic Antibodies and Is Protective in an Animal Model of Invasive Pneumococcal Disease. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14783-14791	16.4	43
374	Remote Participation during Glycosylation Reactions of Galactose Building Blocks: Direct Evidence from Cryogenic Vibrational Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6166-6171	16.4	43
373	Glycan arrays containing synthetic <i>Clostridium difficile</i> lipoteichoic acid oligomers as tools toward a carbohydrate vaccine. <i>Chemical Communications</i> , 2013 , 49, 7159-61	5.8	43
372	<i>Helicobacter pylori</i> cholesteryl β -glucosides contribute to its pathogenicity and immune response by natural killer T cells. <i>PLoS ONE</i> , 2013 , 8, e78191	3.7	43
371	Miniaturization of microwave-assisted carbohydrate functionalization to create oligosaccharide microarrays. <i>ChemBioChem</i> , 2006 , 7, 421-4	3.8	43
370	Toward the automated solid-phase synthesis of oligoglucosamines: systematic evaluation of glycosyl phosphate and glycosyl trichloroacetimidate building blocks. <i>Carbohydrate Research</i> , 2002 , 337, 1893-916	2.9	43
369	Factors influencing the regioselectivity of the oxidation of asymmetric secondary amines with singlet oxygen. <i>Chemistry - A European Journal</i> , 2015 , 21, 6528-34	4.8	42
368	Fullerenols and glucosamine fullerenes reduce infarct volume and cerebral inflammation after ischemic stroke in normotensive and hypertensive rats. <i>Experimental Neurology</i> , 2015 , 265, 142-51	5.7	42
367	The novel fold of scytovirin reveals a new twist for antiviral entry inhibitors. <i>Journal of Molecular Biology</i> , 2007 , 369, 451-61	6.5	42
366	Symbionts exploit complex signaling to educate the immune system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 ,	11.5	42
365	Systematic Hydrogen-Bond Manipulations To Establish Polysaccharide Structure-Property Correlations. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 13127-13132	16.4	41
364	Diversity-oriented synthesis of inner core oligosaccharides of the lipopolysaccharide of pathogenic Gram-negative bacteria. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6262-71	16.4	41
363	Adlayers of dimannoside thiols on gold: surface chemical analysis. <i>Langmuir</i> , 2011 , 27, 4808-15	4	41
362	Expression cloning of cholesterol α -glucosyltransferase, a unique enzyme that can be inhibited by natural antibiotic gastric mucin O-glycans, from <i>Helicobacter pylori</i> . <i>Biochemical and Biophysical Research Communications</i> , 2006 , 349, 1235-41	3.4	41
361	Automated Glycan Assembly of Oligo-N-Acetylglucosamine and Keratan Sulfate Probes to Study Virus-Glycan Interactions. <i>Chem</i> , 2017 , 2, 114-124	16.2	40
360	Immune modulation by Lacto-N-fucopentaose III in experimental autoimmune encephalomyelitis. <i>Clinical Immunology</i> , 2012 , 142, 351-61	9	40

359	Magnetic porous sugar-functionalized PEG microgels for efficient isolation and removal of bacteria from solution. <i>Biomacromolecules</i> , 2013 , 14, 1927-35	6.9	40
358	What happens to hydrophobic interactions during transfer from the solution to the gas phase? The case of electrospray-based soft ionization methods. <i>Journal of the American Society for Mass Spectrometry</i> , 2011 , 22, 1167-77	3.5	40
357	De novo synthesis of a D-galacturonic acid thioglycoside as key to the total synthesis of a glycosphingolipid from <i>Sphingomonas yanoikuyae</i> . <i>Organic Letters</i> , 2008 , 10, 1573-6	6.2	40
356	Synthesis of a hexasaccharide repeating unit from <i>Bacillus anthracis</i> vegetative cell walls. <i>Organic Letters</i> , 2008 , 10, 905-8	6.2	40
355	Molecular basis of S-layer glycoprotein glycan biosynthesis in <i>Geobacillus stearothermophilus</i> . <i>Journal of Biological Chemistry</i> , 2008 , 283, 21120-33	5.4	40
354	An Engineered Mannoside Presenting Platform: <i>Escherichia coli</i> Adhesion under Static and Dynamic Conditions. <i>Advanced Functional Materials</i> , 2008 , 18, 1459-1469	15.6	40
353	Use of olefin cross-metathesis to release azide-containing sugars from solid support. <i>Organic Letters</i> , 2003 , 5, 4541-4	6.2	40
352	Automated Glycan Assembly of Oligosaccharides Related to Arabinogalactan Proteins. <i>Organic Letters</i> , 2015 , 17, 4344-7	6.2	39
351	Combination of automated solid-phase and enzymatic oligosaccharide synthesis provides access to (2,3)-sialylated glycans. <i>Chemical Communications</i> , 2015 , 51, 6183-5	5.8	39
350	Automated solid phase synthesis of oligoarabinofuranosides. <i>Chemical Communications</i> , 2013 , 49, 4453-5	5.8	39
349	A convergent, versatile route to two synthetic conjugate anti-toxin malaria vaccines. <i>Chemical Communications</i> , 2004 , 1706-7	5.8	39
348	Imaging single glycans. <i>Nature</i> , 2020 , 582, 375-378	50.4	38
347	Pushing the limits of automated glycan assembly: synthesis of a 50mer polymannoside. <i>Chemical Communications</i> , 2017 , 53, 9085-9088	5.8	38
346	Anthrax spore detection by a luminex assay based on monoclonal antibodies that recognize anthrose-containing oligosaccharides. <i>Vaccine Journal</i> , 2010 , 17, 1446-51		38
345	Deciphering the glycosaminoglycan code with the help of microarrays. <i>Molecular BioSystems</i> , 2008 , 4, 707-11		38
344	Oligosaccharide preferences of beta1,4-galactosyltransferase-I: crystal structures of Met340His mutant of human beta1,4-galactosyltransferase-I with a pentasaccharide and trisaccharides of the N-glycan moiety. <i>Journal of Molecular Biology</i> , 2005 , 353, 53-67	6.5	38
343	Development of an automated oligosaccharide synthesizer. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 2003 , 58, 35-54	3.7	38
342	Exploring life's sweet spot. <i>Nature</i> , 2005 , 437, 1239	50.4	38

341	Synthesis and transformations of d-glucuronic and l-iduronic acid glycals. <i>Tetrahedron Letters</i> , 2001 , 42, 3811-3814	2	38
340	Improving vaccines against using synthetic glycans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 13353-13358	11.5	38
339	Unravelling the structure of glycosyl cations via cold-ion infrared spectroscopy. <i>Nature Communications</i> , 2018 , 9, 4174	17.4	38
338	Chemoselective Photoredox Synthesis of Unprotected Primary Amines Using Ammonia. <i>Organic Letters</i> , 2018 , 20, 4081-4085	6.2	38
337	Total Synthesis of a Densely Functionalized Plesiomonas shigelloides Serotype 51 Aminoglycoside Trisaccharide Antigen. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3120-3127	16.4	37
336	Immunogenicity and diagnostic potential of synthetic antigenic cell surface glycans of Leishmania. <i>ACS Chemical Biology</i> , 2013 , 8, 2412-22	4.9	37
335	Modular Approach toward Bioactive Fiber Meshes Carrying Oligosaccharides. <i>Macromolecules</i> , 2010 , 43, 9239-9247	5.5	37
334	2'-Deoxynucleoside Dithiophosphates: Synthesis and Biological Studies ¹ . <i>Journal of the American Chemical Society</i> , 1995 , 117, 1472-1478	16.4	37
333	Recovery of Artemisinin from a Complex Reaction Mixture Using Continuous Chromatography and Crystallization. <i>Organic Process Research and Development</i> , 2015 , 19, 624-634	3.9	36
332	Fucose Migration in Intact Protonated Glycan Ions: A Universal Phenomenon in Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7440-7443	16.4	36
331	Synthesis, Liposomal Formulation, and Immunological Evaluation of a Minimalistic Carbohydrate-EGalCer Vaccine Candidate. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 4918-4927	8.3	36
330	Modular automated solid phase synthesis of dermatan sulfate oligosaccharides. <i>Chemical Communications</i> , 2014 , 50, 1875-7	5.8	36
329	A general and convergent synthesis of diverse glycosylphosphatidylinositol glycolipids. <i>Chemical Science</i> , 2013 , 4, 468-481	9.4	36
328	Surface characterization of carbohydrate microarrays. <i>Langmuir</i> , 2010 , 26, 17143-55	4	36
327	Progress toward developing a carbohydrate-conjugate vaccine against Clostridium difficile ribotype 027: synthesis of the cell-surface polysaccharide PS-I repeating unit. <i>Chemical Communications</i> , 2011 , 47, 10260-2	5.8	36
326	Semisynthetic glycoconjugate vaccine candidate against serotype 5. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 11063-11068	11.5	35
325	The stoichiometry of peptide-heparan sulfate binding as a determinant of uptake efficiency of cell-penetrating peptides. <i>Cellular and Molecular Life Sciences</i> , 2014 , 71, 2717-29	10.3	35
324	Subgel phase structure in monolayers of glycosylphosphatidylinositol glycolipids. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12874-8	16.4	35

- 323 Plumieribetin, a fish lectin homologous to mannose-binding B-type lectins, inhibits the collagen-binding alpha1beta1 integrin. *Journal of Biological Chemistry*, **2009**, 284, 34747-59 5.4 35
- 322 Amidoglycosylation of Polymer-Bound Glycals: A Complete Solid-Phase Synthesis of the Oligosaccharide Domain of the Lewis Blood Group Determinant. *Angewandte Chemie - International Edition*, **1998**, 37, 786-789 16.4 35
- 321 Recent Progress in Polymer-Supported Synthesis of Oligosaccharides and Carbohydrate Libraries. *Current Organic Chemistry*, **2000**, 4, 481-511 1.7 35
- 320 Deciphering Antigenic Determinants of Streptococcus pneumoniae Serotype 4 Capsular Polysaccharide using Synthetic Oligosaccharides. *ACS Chemical Biology*, **2016**, 11, 335-44 4.9 34
- 319 Automated glycan assembly of xyloglucan oligosaccharides. *Organic and Biomolecular Chemistry*, **2016**, 14, 309-13 3.9 34
- 318 Chemical Synthesis Elucidates the Immunological Importance of a Pyruvate Modification in the Capsular Polysaccharide of Streptococcus pneumoniae Serotype 4. *Angewandte Chemie - International Edition*, **2015**, 54, 10016-9 16.4 34
- 317 Ru(II) glycodendrimers as probes to study lectin-carbohydrate interactions and electrochemically measure monosaccharide and oligosaccharide concentrations. *Langmuir*, **2010**, 26, 1520-3 4 34
- 316 The C-type lectin receptor DCIR is crucial for the development of experimental cerebral malaria. *Journal of Immunology*, **2013**, 191, 2551-9 5.3 33
- 315 Defined presentation of carbohydrates on a duplex DNA scaffold. *ChemBioChem*, **2011**, 12, 2791-800 3.8 33
- 314 Cap-and-tag solid phase oligosaccharide synthesis. *Journal of Organic Chemistry*, **2008**, 73, 2058-65 4.2 33
- 313 Oligosaccharide microarrays to map interactions of carbohydrates in biological systems. *Methods in Enzymology*, **2006**, 415, 269-92 1.7 33
- 312 Selective formation of C-2 azidodeoxy-D-glucose derivatives from D-glucal precursors using the azidonitration reaction. *Carbohydrate Research*, **2000**, 328, 61-9 2.9 33
- 311 Identification of Multiple Druggable Secondary Sites by Fragment Screening against DC-SIGN. *Angewandte Chemie - International Edition*, **2017**, 56, 7292-7296 16.4 32
- 310 Oligosaccharides Self-Assemble and Show Intrinsic Optical Properties. *Journal of the American Chemical Society*, **2019**, 141, 4833-4838 16.4 32
- 309 Automated glycan assembly as an enabling technology. *Current Opinion in Chemical Biology*, **2018**, 46, 48-55 9.7 32
- 308 Synthesis of conjugation-ready zwitterionic oligosaccharides by chemoselective thioglycoside activation. *Chemical Science*, **2014**, 5, 1992-2002 9.4 32
- 307 Immunostimulatory Activity of Fucoidan from the Brown Alga *Fucus evanescens*: Role of Sulfates and Acetates. *Journal of Carbohydrate Chemistry*, **2011**, 30, 291-305 1.7 32
- 306 A general method for synthesis of GPI anchors illustrated by the total synthesis of the low-molecular-weight antigen from *Toxoplasma gondii*. *Angewandte Chemie - International Edition*, **2011**, 50, 9961-4 16.4 32

305	A highly convergent synthesis of an N-linked glycopeptide presenting the H-type 2 human blood group determinant. <i>Tetrahedron</i> , 2006 , 62, 4954-4978	2.4	32
304	Short total synthesis of 8,10-di-O-methylbergenin. <i>Organic Letters</i> , 2002 , 4, 2965-7	6.2	32
303	Active Site Mapping of Xylan-Deconstructing Enzymes with Arabinoxylan Oligosaccharides Produced by Automated Glycan Assembly. <i>Chemistry - A European Journal</i> , 2017 , 23, 3197-3205	4.8	31
302	Cross Reactive Material 197 glycoconjugate vaccines contain privileged conjugation sites. <i>Scientific Reports</i> , 2016 , 6, 20488	4.9	31
301	The C-type lectin receptor Mincle binds to <i>Streptococcus pneumoniae</i> but plays a limited role in the anti-pneumococcal innate immune response. <i>PLoS ONE</i> , 2015 , 10, e0117022	3.7	31
300	De novo synthesis of a 2-acetamido-4-amino-2,4,6-trideoxy-D-galactose (AAT) building block for the preparation of a <i>Bacteroides fragilis</i> A1 polysaccharide fragment. <i>Organic Letters</i> , 2010 , 12, 1624-7	6.2	31
299	Novel, Broadly Reactive Anticapsular Antibodies against Carbapenem-Resistant <i>Klebsiella pneumoniae</i> Protect from Infection. <i>MBio</i> , 2018 , 9,	7.8	30
298	Development of an Efficacious, Semisynthetic Glycoconjugate Vaccine Candidate against Serotype 1. <i>ACS Central Science</i> , 2018 , 4, 357-361	16.8	30
297	Solution structure of a circular-permuted variant of the potent HIV-inactivating protein cyanovirin-N: structural basis for protein stability and oligosaccharide interaction. <i>Journal of Molecular Biology</i> , 2003 , 325, 211-23	6.5	30
296	Directing effect by remote electron-withdrawing protecting groups at O-3 or O-4 position of donors in glycosylations and galactosylations. <i>Tetrahedron</i> , 2015 , 71, 5315-5320	2.4	29
295	An Integrated Therapeutic Delivery System for Enhanced Treatment of Hepatocellular Carcinoma. <i>Advanced Functional Materials</i> , 2018 , 28, 1706600	15.6	29
294	Synthetic Lipoteichoic Acid Glycans Are Potential Vaccine Candidates to Protect from <i>Clostridium difficile</i> Infections. <i>Cell Chemical Biology</i> , 2016 , 23, 1014-1022	8.2	29
293	The C-type lectin-like domain containing proteins Clec-39 and Clec-49 are crucial for <i>Caenorhabditis elegans</i> immunity against <i>Serratia marcescens</i> infection. <i>Developmental and Comparative Immunology</i> , 2014 , 45, 67-73	3.2	29
292	Antigenic potential of a highly conserved <i>Neisseria meningitidis</i> lipopolysaccharide inner core structure defined by chemical synthesis. <i>Chemistry and Biology</i> , 2015 , 22, 38-49		29
291	Mechanical compressibility of the glycosylphosphatidylinositol (GPI) anchor backbone governed by independent glycosidic linkages. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18964-72	16.4	29
290	Automated synthesis of sialylated oligosaccharides. <i>Beilstein Journal of Organic Chemistry</i> , 2012 , 8, 1601-25	2.5	29
289	The C-Type Lectin Receptor SIGNR3 Binds to Fungi Present in Commensal Microbiota and Influences Immune Regulation in Experimental Colitis. <i>Frontiers in Immunology</i> , 2013 , 4, 196	8.4	29
288	Carbohydrate-based nanomaterials for biomedical applications. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2019 , 11, e1558	9.2	28

287	Recent advances and future challenges in glycan microarray technology. <i>Methods in Molecular Biology</i> , 2012 , 808, 1-12	1.4	28
286	Developing Continuous-Flow Microreactors as Tools for Synthetic Chemists. <i>Synlett</i> , 2009 , 2009, 2382-2391	2.3	28
285	Immuno-detection of anthrose containing tetrasaccharide in the exosporium of <i>Bacillus anthracis</i> and <i>Bacillus cereus</i> strains. <i>Journal of Applied Microbiology</i> , 2009 , 106, 1618-28	4.7	28
284	A novel 4,5-dibromooctane-1,8-diol linker for solid-phase oligosaccharide synthesis. <i>Tetrahedron Letters</i> , 2000 , 41, 4329-4333	2	28
283	Unlocking Cancer Glycomes from Histopathological Formalin-fixed and Paraffin-embedded (FFPE) Tissue Microdissections. <i>Molecular and Cellular Proteomics</i> , 2017 , 16, 524-536	7.6	27
282	Plague detection by anti-carbohydrate antibodies. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9524-8	16.4	27
281	MyD88/IL-18-dependent pathways rather than TLRs control early parasitaemia in non-lethal <i>Plasmodium yoelii</i> infection. <i>Microbes and Infection</i> , 2008 , 10, 1259-65	9.3	27
280	Solution syntheses of protected type II Lewis blood group oligosaccharides: study for automated synthesis. <i>Journal of Organic Chemistry</i> , 2005 , 70, 3168-77	4.2	27
279	Formation of beta-glucosamine and beta-mannose linkages using glycosyl phosphates. <i>Organic Letters</i> , 2000 , 2, 3841-3	6.2	27
278	Automated glycan assembly of branched α (1,3)-glucans to identify antibody epitopes. <i>Chemical Communications</i> , 2017 , 53, 3591-3594	5.8	26
277	Flow Synthesis of Fluorinated α -Amino Acids. <i>European Journal of Organic Chemistry</i> , 2015 , 2015, 3036-3039	3.2	26
276	<i>Plasmodium falciparum</i> glycosylphosphatidylinositol toxin interacts with the membrane of non-parasitized red blood cells: a putative mechanism contributing to malaria anemia. <i>Microbes and Infection</i> , 2008 , 10, 885-91	9.3	26
275	Fabrication of Glyco-Metal-Organic Frameworks for Targeted Interventional Photodynamic/Chemotherapy for Hepatocellular Carcinoma through Percutaneous Transperitoneal Puncture. <i>Advanced Functional Materials</i> , 2020 , 30, 1910084	15.6	25
274	Solid phase synthesis of oligosaccharides. <i>Methods in Enzymology</i> , 2010 , 478, 463-84	1.7	25
273	Stereocontrolled synthesis of fully functionalized D-glucosamine monosaccharides via a domino nitro-Michael/Henry reaction. <i>Chemical Communications</i> , 2008 , 3549-51	5.8	25
272	Synthesis of a Spore Surface Pentasaccharide of <i>Bacillus anthracis</i> . <i>European Journal of Organic Chemistry</i> , 2007 , 2007, 1976-1982	3.2	25
271	Toward the modular synthesis of glycosaminoglycans: synthesis of hyaluronic acid disaccharide building blocks using a periodic acid oxidation. <i>Tetrahedron</i> , 2004 , 60, 7755-7766	2.4	25
270	Alterations of the Human Skin - and -Glycome in Basal Cell Carcinoma and Squamous Cell Carcinoma. <i>Frontiers in Oncology</i> , 2018 , 8, 70	5.3	24

269	Simply better glycoproteins. <i>Nature Biotechnology</i> , 2014 , 32, 443-5	44.5	24
268	Diagnosis of toxoplasmosis using a synthetic glycosylphosphatidylinositol glycan. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13701-5	16.4	24
267	Glycosylated nanoscale surfaces: preparation and applications in medicine and molecular biology. <i>Chemistry - A European Journal</i> , 2013 , 19, 3794-800	4.8	24
266	RAFT-derived polymer-drug conjugates: poly(hydroxypropyl methacrylamide) (HPMA)-7-ethyl-10-hydroxycamptothecin (SN-38) conjugates. <i>ChemMedChem</i> , 2012 , 7, 281-91	3.7	24
265	Continuous-flow reactor-based synthesis of carbohydrate and dihydrolipoic acid-capped quantum dots. <i>Nature Protocols</i> , 2011 , 6, 1209-20	18.8	24
264	Integrated on-chip mass spectrometry reaction monitoring in microfluidic devices containing porous polymer monolithic columns. <i>Analyst, The</i> , 2016 , 141, 5412-6	5	24
263	A modular synthetic route to size-defined immunogenic b antigens is key to the identification of an octasaccharide lead vaccine candidate. <i>Chemical Science</i> , 2018 , 9, 1279-1288	9.4	24
262	Glycan Isomer Identification Using Ultraviolet Photodissociation Initiated Radical Chemistry. <i>Analytical Chemistry</i> , 2018 , 90, 11581-11588	7.8	24
261	Traceless Photolabile Linker Expedites the Chemical Synthesis of Complex Oligosaccharides by Automated Glycan Assembly. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9079-9086	16.4	23
260	Synthetic di-sulfated iduronic acid attenuates asthmatic response by blocking T-cell recruitment to inflammatory sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 8173-8	11.5	23
259	Automated solid-phase synthesis of oligosaccharides containing sialic acids. <i>Beilstein Journal of Organic Chemistry</i> , 2015 , 11, 617-21	2.5	23
258	Automated synthesis of lipomannan backbone alpha(1-6) oligomannoside via glycosyl phosphates: glycosyl tricyclic orthoesters revisited. <i>Chemical Communications</i> , 2008 , 3510-2	5.8	23
257	Synthesis of 2-iodoglycals, glycals, and 1,1'-disaccharides from 2-Deoxy-2-iodopyranoses under dehydrative glycosylation conditions. <i>Journal of Organic Chemistry</i> , 2007 , 72, 8998-9001	4.2	23
256	The utility of carbohydrate microarrays in glycomics. <i>OMICS A Journal of Integrative Biology</i> , 2006 , 10, 490-8	3.8	23
255	SOLID PHASE OLIGOSACCHARIDE SYNTHESIS. <i>Journal of Carbohydrate Chemistry</i> , 2002 , 21, 613-643	1.7	23
254	Nucleophile-Directed Stereocontrol Over Glycosylations Using Geminal-Difluorinated Nucleophiles. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14431-14434	16.4	23
253	Automated Glycan Assembly of Complex Oligosaccharides Related to Blood Group Determinants. <i>Journal of Organic Chemistry</i> , 2016 , 81, 5866-77	4.2	22
252	Automated glycopeptide assembly by combined solid-phase peptide and oligosaccharide synthesis. <i>Chemical Communications</i> , 2014 , 50, 1851-3	5.8	22

251	Consecutive oxygen-based oxidations convert amines to α -cyanoepoxides. <i>Chemical Communications</i> , 2014 , 50, 12649-51	5.8	22
250	CMP substitutions preferentially inhibit polysialic acid synthesis. <i>Glycobiology</i> , 2008 , 18, 187-94	5.8	22
249	Mixed-Linkage Glucan Oligosaccharides Produced by Automated Glycan Assembly Serve as Tools To Determine the Substrate Specificity of Lichenase. <i>Chemistry - A European Journal</i> , 2017 , 23, 3191-3196	4.8	21
248	Continuous Reductions and Reductive Aminations Using Solid NaBH ₄ . <i>Organic Process Research and Development</i> , 2014 , 18, 1771-1776	3.9	21
247	A Self-Assembling Peptide Scaffold for the Multivalent Presentation of Antigens. <i>Biomacromolecules</i> , 2015 , 16, 2188-97	6.9	21
246	Copper(I)/N-Heterocyclic Carbene (NHC)-Catalyzed Addition of Terminal Alkynes to Trifluoromethyl Ketones for Use in Continuous Reactors. <i>Advanced Synthesis and Catalysis</i> , 2013 , 355, 3517-3521	5.6	21
245	Carbohydrate arrays as tools for the glycomics revolution. <i>Drug Discovery Today: TARGETS</i> , 2004 , 3, 151-158		21
244	N-linked glycosylated beta-peptides are resistant to degradation by glycoamidase A. <i>Chemistry and Biodiversity</i> , 2005 , 2, 1624-34	2.5	21
243	Photochemical Strategies for Carbon-Heteroatom Bond Formation. <i>European Journal of Organic Chemistry</i> , 2020 , 2020, 1379-1392	3.2	21
242	Visible-Light-Mediated Achmatowicz Rearrangement. <i>Organic Letters</i> , 2017 , 19, 30-33	6.2	20
241	Integrated flow processing \square challenges in continuous multistep synthesis. <i>Journal of Flow Chemistry</i> , 2017 , 7, 129-136	3.3	20
240	Automated glycan assembly of Lewis type I and II oligosaccharide antigens. <i>Chemical Science</i> , 2019 , 10, 5634-5640	9.4	20
239	Continuous photochemical cleavage of linkers for solid-phase synthesis. <i>Organic Letters</i> , 2014 , 16, 1794-7.2	6.2	20
238	Defining the Interaction of Human Soluble Lectin ZG16p and Mycobacterial Phosphatidylinositol Mannosides. <i>ChemBioChem</i> , 2015 , 16, 1502-11	3.8	20
237	Automatisierte Festphasensynthese von Chondroitinsulfatglycosaminoglycanen. <i>Angewandte Chemie</i> , 2013 , 125, 5970-5973	3.6	20
236	Synthesis of homo- and heteromultivalent carbohydrate-functionalized oligo(amidoamines) using novel glyco-building blocks. <i>Beilstein Journal of Organic Chemistry</i> , 2013 , 9, 2395-403	2.5	20
235	Characterization of annexin A1 glycan binding reveals binding to highly sulfated glycans with preference for highly sulfated heparan sulfate and heparin. <i>Biochemistry</i> , 2011 , 50, 2650-9	3.2	20
234	Role of the C-type lectin receptors MCL and DCIR in experimental colitis. <i>PLoS ONE</i> , 2014 , 9, e103281	3.7	20

233	MAIT cells as attractive vaccine targets. <i>FEBS Letters</i> , 2019 , 593, 1627-1640	3.8	19
232	Continuous and convergent access to vicinyl amino alcohols. <i>Chemical Communications</i> , 2015 , 51, 15133-6.8	6.8	19
231	Nanovesicles displaying functional linear and branched oligomannose self-assembled from sequence-defined Janus glycodendrimers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 11931-11939	11.5	19
230	A Capping Step During Automated Glycan Assembly Enables Access to Complex Glycans in High Yield. <i>Chemistry - A European Journal</i> , 2018 , 24, 6075-6078	4.8	19
229	High affinity sugar ligands of C-type lectin receptor langerin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018 , 1862, 1592-1601	4	19
228	Synergistic Glycosylation as Key to the Chemical Synthesis of an Outer Core Octasaccharide of <i>Helicobacter pylori</i> . <i>Chemistry - A European Journal</i> , 2018 , 24, 2868-2872	4.8	19
227	Parasite Carbohydrate Vaccines. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017 , 7, 248	5.9	19
226	De novo synthesis of aceric acid and an aceric acid building block. <i>Journal of Organic Chemistry</i> , 2006 , 71, 8294-7	4.2	19
225	Solid-phase synthesis and biochemical studies of O-boranophosphopeptides and O-dithiophosphopeptides. <i>Journal of the American Chemical Society</i> , 2002 , 124, 6584-93	16.4	19
224	Discovery of Semi- and Fully-Synthetic Carbohydrate Vaccines Against Bacterial Infections Using a Medicinal Chemistry Approach. <i>Chemical Reviews</i> , 2021 , 121, 3598-3626	68.1	19
223	Helical polysaccharides. <i>Peptide Science</i> , 2020 , 112, e24124	3	19
222	Tailored Presentation of Carbohydrates on a Coiled Coil-Based Scaffold for Asialoglycoprotein Receptor Targeting. <i>ACS Chemical Biology</i> , 2015 , 10, 2065-72	4.9	18
221	Biological evaluation of multivalent lewis X-MGL-1 interactions. <i>ChemBioChem</i> , 2014 , 15, 844-51	3.8	18
220	The diagnostic targeting of a carbohydrate virulence factor from M.Tuberculosis. <i>Scientific Reports</i> , 2015 , 5, 10281	4.9	18
219	Snowballing radical generation leads to ultrahigh molecular weight polymers. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 1770-4	4.8	18
218	De novo synthesis of the bacterial 2-amino-2,6-dideoxy sugar building blocks D-fucosamine, D-bacillosamine, and D-xylo-6-deoxy-4-ketohexosamine. <i>Organic Letters</i> , 2012 , 14, 4954-7	6.2	18
217	Transfer of the first arabinofuranose residue to galactan is essential for Mycobacterium smegmatis viability. <i>Journal of Bacteriology</i> , 2008 , 190, 5248-55	3.5	18
216	Anomeric Phosphorodithioates as Novel Glycosylating Agents. <i>Journal of Organic Chemistry</i> , 1998 , 63, 9150-9151	4.2	18

215	Synthesis of phosphorodithioate RNA by the H-phosphonothioate method. <i>Tetrahedron Letters</i> , 1996 , 37, 4451-4454	2	18
214	Total synthesis of the <i>Helicobacter pylori</i> serotype O2 O-antigen $\alpha(1-j2)$ - and $\alpha(1-j3)$ -linked oligoglucosides. <i>Chemical Communications</i> , 2020 , 56, 344-347	5.8	18
213	Exploring the Molecular Conformation Space by Soft Molecule-Surface Collision. <i>Journal of the American Chemical Society</i> , 2020 , 142, 21420-21427	16.4	18
212	In vitro efficacy of artemisinin-based treatments against SARS-CoV-2. <i>Scientific Reports</i> , 2021 , 11, 14571	4.9	18
211	High-density Peptide Arrays Help to Identify Linear Immunogenic B-cell Epitopes in Individuals Naturally Exposed to Malaria Infection. <i>Molecular and Cellular Proteomics</i> , 2019 , 18, 642-656	7.6	18
210	An Integrated Lab-on-a-chip Approach to Study Heterogeneous Enantioselective Catalysts at the Microscale. <i>ChemCatChem</i> , 2018 , 10, 5382-5385	5.2	18
209	Enhancement of fluorescent properties of near-infrared dyes using clickable oligoglycerol dendrons. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 4727-32	3.9	17
208	Systematic Hydrogen-Bond Manipulations To Establish Polysaccharide Structure-Property Correlations. <i>Angewandte Chemie</i> , 2019 , 131, 13261-13266	3.6	17
207	Multivalent glycan arrays. <i>Faraday Discussions</i> , 2019 , 219, 9-32	3.6	17
206	Epitope recognition of antibodies against a <i>Yersinia pestis</i> lipopolysaccharide trisaccharide component. <i>ACS Chemical Biology</i> , 2014 , 9, 867-73	4.9	17
205	Amphiphilic cationic (BR3)-peptides: membrane active peptidomimetics and their potential as antimicrobial agents. <i>Biomacromolecules</i> , 2014 , 15, 1687-95	6.9	17
204	<i>Toxoplasma gondii</i> secretory proteins bind to sulfated heparin structures. <i>Glycobiology</i> , 2013 , 23, 106-205	5.8	17
203	Total synthesis of the <i>Escherichia coli</i> O111 O-specific polysaccharide repeating unit. <i>Chemistry - A European Journal</i> , 2013 , 19, 3995-4002	4.8	17
202	Identification of mono- and disulfated N-acetyl-lactosaminyl Oligosaccharide structures as epitopes specifically recognized by humanized monoclonal antibody HMOCC-1 raised against ovarian cancer. <i>Journal of Biological Chemistry</i> , 2012 , 287, 6592-602	5.4	17
201	Synthesis and Characterization of Linker-Armed Fucose-Based Glycomimetics. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 5303-5314	3.2	17
200	Glycosylation efficiencies on different solid supports using a hydrogenolysis-labile linker. <i>Beilstein Journal of Organic Chemistry</i> , 2013 , 9, 97-105	2.5	17
199	Critical role of amino acid position 343 of surfactant protein-D in the selective binding of glycolipids from <i>Mycobacterium tuberculosis</i> . <i>Glycobiology</i> , 2009 , 19, 1473-84	5.8	17
198	Homogeneous Gold-Catalyzed Glycosylations in Continuous Flow. <i>Organic Letters</i> , 2015 , 17, 3670-3	6.2	16

197	Evidence for Photocatalyst Involvement in Oxidative Additions of Nickel-Catalyzed Carboxylate-Arylations. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11042-11049	16.4	16
196	Kontinuierliche heterogene Photokatalyse in seriellen Mikro-Batch-Reaktoren. <i>Angewandte Chemie</i> , 2018 , 130, 10127-10131	3.6	16
195	Synthesis of glycosylphosphatidylinositol (GPI)-anchor glycolipids bearing unsaturated lipids. <i>Chemical Communications</i> , 2016 , 52, 1586-9	5.8	16
194	De novo synthesis of L-colitose and L-rhodinose building blocks. <i>Journal of Organic Chemistry</i> , 2012 , 77, 870-7	4.2	16
193	De novo synthesis of differentially protected L-iduronic acid glycosylating agents. <i>Carbohydrate Research</i> , 2010 , 345, 948-55	2.9	16
192	Total syntheses of fully lipidated glycosylphosphatidylinositol anchors of <i>Toxoplasma gondii</i> . <i>Chemical Communications</i> , 2005 , 2280-2	5.8	16
191	Linker influence on the stereochemical outcome of glycosylations utilizing solid support-bound glycosyl phosphates. <i>Organic Letters</i> , 2002 , 4, 2751-4	6.2	16
190	A traceless photocleavable linker for the automated glycan assembly of carbohydrates with free reducing ends. <i>Chemical Communications</i> , 2016 , 52, 10187-9	5.8	15
189	Mucins and Pathogenic Mucin-Like Molecules Are Immunomodulators During Infection and Targets for Diagnostics and Vaccines. <i>Frontiers in Chemistry</i> , 2019 , 7, 710	5	15
188	Passive fructose transporters in disease: a molecular overview of their structural specificity. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 4909-20	3.9	15
187	A Capture-and-Release Catalytic Flow System. <i>Helvetica Chimica Acta</i> , 2012 , 95, 2578-2588	2	15
186	Applications of heparin and heparan sulfate microarrays. <i>Methods in Enzymology</i> , 2010 , 478, 197-218	1.7	15
185	Synthetic glycosylphosphatidylinositol as tools for glycoparasitology research. <i>OMICS A Journal of Integrative Biology</i> , 2010 , 14, 445-54	3.8	15
184	One-pot conversion of glycals to cis-1,2-isopropylidene-alpha-glycosides. <i>Journal of Organic Chemistry</i> , 2003 , 68, 7541-3	4.2	15
183	Automated glycan assembly of a <i>S. pneumoniae</i> serotype 3 CPS antigen. <i>Beilstein Journal of Organic Chemistry</i> , 2016 , 12, 1440-6	2.5	15
182	A Sustainable, Semi-Continuous Flow Synthesis of Hydantoins. <i>Chemistry - A European Journal</i> , 2016 , 22, 13451-4	4.8	15
181	Visible-Light-Mediated Oxidative Debenzylation Enables the Use of Benzyl Ethers as Temporary Protecting Groups. <i>Organic Letters</i> , 2021 , 23, 514-518	6.2	15
180	Human C1-Inhibitor Suppresses Malaria Parasite Invasion and Cytoadhesion via Binding to Parasite Glycosylphosphatidylinositol and Host Cell Receptors. <i>Journal of Infectious Diseases</i> , 2016 , 213, 80-9	7	14

179	Determining Substrate Specificities of α ,4-Endogalactanases Using Plant Arabinogalactan Oligosaccharides Synthesized by Automated Glycan Assembly. <i>Journal of Organic Chemistry</i> , 2017 , 82, 1842-1850	4.2	14
178	Calcium-Independent Activation of an Allosteric Network in Langerin by Heparin Oligosaccharides. <i>ChemBioChem</i> , 2017 , 18, 1183-1187	3.8	14
177	Synthetic inositol phosphoglycans related to GPI lack insulin-mimetic activity. <i>ACS Chemical Biology</i> , 2010 , 5, 1075-86	4.9	14
176	Identification of an African Bacillus anthracis lineage that lacks expression of the spore surface-associated anthrose-containing oligosaccharide. <i>Journal of Bacteriology</i> , 2011 , 193, 3506-11	3.5	14
175	3-Mercaptopropanol as a traceless linker for chemical and enzymatic synthesis of oligosaccharides. <i>Organic Letters</i> , 2007 , 9, 651-3	6.2	14
174	Real-time monitoring of solid-phase peptide synthesis using a variable bed flow reactor. <i>Chemical Communications</i> , 2019 , 55, 14598-14601	5.8	14
173	Chemical Synthesis and Immunological Evaluation of Helicobacter pylori Serotype O6 Tridecasaccharide O-Antigen Containing a dd-Heptoglycan. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13362-13370	16.4	13
172	Total synthesis of a serotype 12F CPS repeating unit hexasaccharide. <i>Beilstein Journal of Organic Chemistry</i> , 2017 , 13, 164-173	2.5	13
171	Identification of the Minimal Glycotope of Streptococcus pneumoniae 7F Capsular Polysaccharide using Synthetic Oligosaccharides. <i>Chemistry - A European Journal</i> , 2018 , 24, 4181-4187	4.8	13
170	The C-type Lectin Receptor CLEC12A Recognizes Plasmodial Hemozoin and Contributes to Cerebral Malaria Development. <i>Cell Reports</i> , 2019 , 28, 30-38.e5	10.6	13
169	Carbohydrate coating reduces adhesion of biofilm-forming Bacillus subtilis to gold surfaces. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 5911-7	4.8	13
168	Continuous synthesis of pyridocarbazoles and initial photophysical and bioprobe characterization. <i>Chemical Science</i> , 2013 , 4, 4067	9.4	13
167	Investigation of the protective properties of glycosylphosphatidylinositol-based vaccine candidates in a Toxoplasma gondii mouse challenge model. <i>Glycobiology</i> , 2015 , 25, 984-91	5.8	13
166	Synthesis of Differentially Protected Glucosamine Building Blocks and Their Evaluation as Glycosylating Agents. <i>Journal of Carbohydrate Chemistry</i> , 2009 , 28, 395-420	1.7	13
165	Synthetic glycosylphosphatidylinositol microarray reveals differential antibody levels and fine specificities in children with mild and severe malaria. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 3747-3752	3.4	13
164	CHAPTER 3:Carbohydrate Vaccines. <i>RSC Drug Discovery Series</i> , 2013 , 68-104	0.6	13
163	Structure binding relationship of human surfactant protein D and various lipopolysaccharide inner core structures. <i>Journal of Structural Biology</i> , 2016 , 195, 387-395	3.4	13
162	Fernpartizipation in Glykosylierungen von Galaktose-Bausteinen: Direktnachweis durch kryogene Schwingungsspektroskopie. <i>Angewandte Chemie</i> , 2020 , 132, 6224-6229	3.6	12

- 161 Visible-light mediated oxidative ring expansion of anellated cyclopropanes to fused endoperoxides with antimalarial activity. *Organic Chemistry Frontiers*, **2020**, 7, 1789-1795 5.2 12
- 160 Synthetic Oligosaccharide-Based Vaccines Protect Mice from Infections. *ACS Chemical Biology*, **2019**, 14, 2720-2728 4.9 12
- 159 Fingerabdrücke für Glykane durch Spektroskopie kalter Ionen. *Angewandte Chemie*, **2017**, 129, 11400-11404 4.6 12
- 158 Synthetic Glycan Microarrays. *Methods in Molecular Biology*, **2017**, 1518, 227-240 1.4 12
- 157 Automated Solid-Phase Synthesis of β -Mannuronic Acid Alginates. *Angewandte Chemie*, **2012**, 124, 4469-4472 4.7 12
- 156 Enzyme-mediated nutrient release: glucose-precursor activation by β -galactosidase to induce bacterial growth. *Organic and Biomolecular Chemistry*, **2013**, 11, 2903-10 3.9 12
- 155 Eine allgemeine Methode zur Herstellung von GPI-Membranankern am Beispiel der Totalsynthese des β -low-molecular-weight-Antigens von *Toxoplasma gondii*. *Angewandte Chemie*, **2011**, 123, 10136-10139 3.6 12
- 154 Synthesis of Neomycin Analogs to Investigate Aminoglycoside-RNA Interactions. *Synlett*, **2003**, 2003, 1323 2.2 12
- 153 Oxidative formation of phosphorodithioates via H-phosphonodithioates. *Tetrahedron Letters*, **1995**, 36, 695-698 2 12
- 152 The Impact of Leaving Group Anomerism on the Structure of Glycosyl Cations of Protected Galactosides. *ChemPhysChem*, **2020**, 21, 1905-1907 3.2 12
- 151 Glycoconjugates for glucose transporter-mediated cancer-specific targeting and treatment. *Carbohydrate Research*, **2020**, 498, 108195 2.9 12
- 150 Identifying the origin of local flexibility in a carbohydrate polymer. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118, 11.5 12
- 149 On-Chip Neo-Glycopeptide Synthesis for Multivalent Glycan Presentation. *Chemistry - A European Journal*, **2020**, 26, 9954-9963 4.8 12
- 148 Glucose-Modified Silicon Nanoparticles for Cellular Imaging. *ChemPlusChem*, **2017**, 82, 660-667 2.8 11
- 147 Semi-heterogene duale Nickel-/Photokatalyse mit Kohlenstoffnitriden: Veresterung von Carbonsäuren mit Arylhalogeniden. *Angewandte Chemie*, **2019**, 131, 9676-9681 3.6 11
- 146 Discrimination of β 1,4- and β 1,3-Linkages in Native Oligosaccharides via Charge Transfer Dissociation Mass Spectrometry. *Journal of the American Society for Mass Spectrometry*, **2020**, 31, 1249-1259 3.5 11
- 145 Energy-Efficient Solar Photochemistry with Luminescent Solar Concentrator Based Photomicroreactors. *Angewandte Chemie*, **2019**, 131, 14512-14516 3.6 11
- 144 Chemische Biologie der Glycosylphosphatidylinosit-Anker. *Angewandte Chemie*, **2012**, 124, 11604-11623 3.6 11

143	The Mass Distance Fingerprint: a statistical framework for de novo detection of predominant modifications using high-accuracy mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007 , 854, 173-82	3.2	11
142	5E-dithiophosphoryl Deoxyoligonucleotides: Synthesis and Biological Studies. <i>Journal of the American Chemical Society</i> , 1996 , 118, 9562-9566	16.4	11
141	Synthesis of the pentasaccharide core structure of asparagine-linked glycoprotein oligosaccharides by the glycal assembly method. <i>Enantiomer</i> , 1996 , 1, 311-23		11
140	De novo synthesis of D- and L-fucosamine containing disaccharides. <i>Beilstein Journal of Organic Chemistry</i> , 2013 , 9, 332-41	2.5	10
139	Multimethod Chemical Characterization of Carbohydrate-Functionalized Surfaces. <i>Journal of Carbohydrate Chemistry</i> , 2011 , 30, 361-372	1.7	10
138	Development of a plate-based scintillation proximity assay for the mycobacterial AftB enzyme involved in cell wall arabinan biosynthesis. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 7121-31	3.4	10
137	Glycosylphosphatidylinositols of Protozoan Parasites. <i>Trends in Glycoscience and Glycotechnology</i> , 2012 , 24, 231-243	0.1	10
136	Automated Assembly of Starch and Glycogen Polysaccharides. <i>Journal of the American Chemical Society</i> , 2021 , 143, 9758-9768	16.4	10
135	Structural Studies Using Unnatural Oligosaccharides: Toward Sugar Foldamers. <i>Biomacromolecules</i> , 2020 , 21, 18-29	6.9	10
134	Predicting glycosylation stereoselectivity using machine learning. <i>Chemical Science</i> , 2020 , 12, 2931-2939	9.4	10
133	In vitro efficacy of Artemisia extracts against SARS-CoV-2. <i>Virology Journal</i> , 2021 , 18, 182	6.1	10
132	Direct Experimental Characterization of the Ferrier Glycosyl Cation in the Gas Phase. <i>Organic Letters</i> , 2020 , 22, 8916-8919	6.2	9
131	Automated access to well-defined ionic oligosaccharides. <i>Organic and Biomolecular Chemistry</i> , 2020 , 18, 1349-1353	3.9	9
130	Flagellin Glycoproteomics of the Periodontitis Associated Pathogen Reveals Previously Not Described -glycans and Rhamnose Fragment Rearrangement Occurring on the Glycopeptides. <i>Molecular and Cellular Proteomics</i> , 2018 , 17, 721-736	7.6	9
129	Using carbohydrate-based biomaterials as scaffolds to control human stem cell fate. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 8648-58	3.9	9
128	Identifikation sekundärer Bindestellen auf DC-SIGN mithilfe eines Fragment-Screenings. <i>Angewandte Chemie</i> , 2017 , 129, 7398-7402	3.6	9
127	Acylsulfonamide safety-catch linker: promise and limitations for solid-phase oligosaccharide synthesis. <i>Beilstein Journal of Organic Chemistry</i> , 2012 , 8, 2067-71	2.5	9
126	Automated synthesis of polysaccharides. <i>Methods in Enzymology</i> , 2003 , 369, 235-48	1.7	9

125	Impact of Structural Differences in Galactocerebrosides on the Behavior of 2D Monolayers. <i>Langmuir</i> , 2016 , 32, 2436-44	4	9
124	Supramolecular Assembly and Chirality of Synthetic Carbohydrate Materials. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22577-22583	16.4	8
123	Targeting and Inhibiting Using Ultra-small Gold Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43380-43387	9.5	8
122	Longitudinal Development of Antibody Responses in COVID-19 Patients of Different Severity with ELISA, Peptide, and Glycan Arrays: An Immunological Case Series. <i>Pathogens</i> , 2021 , 10,	4.5	8
121	Discovery of Oligosaccharide Antigens for Semi-Synthetic Glycoconjugate Vaccine Leads against <i>Streptococcus suis</i> Serotypes 2, 3, 9 and 14*. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 14679-14692	16.4	8
120	Combination therapy with amphotericin B and doxorubicin encapsulated in mannosylated nanomicelles for visceral leishmaniasis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 598, 124804	5.1	8
119	Practical considerations for printing high-density glycan microarrays to study weak carbohydrate-protein interactions. <i>Carbohydrate Research</i> , 2019 , 481, 31-35	2.9	7
118	A comparative structural study in monolayers of GPI fragments and their binary mixtures. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 9259-65	3.6	7
117	2-[Dimethyl(2-naphthylmethyl)silyl]ethoxy Carbonate (NSEC) as a New Mode of Hydroxyl Group Protection*. <i>Journal of Carbohydrate Chemistry</i> , 2005 , 24, 441-462	1.7	7
116	Synthesis of phosphorodithioate DNA by the H-phosphonothioate method. <i>Tetrahedron</i> , 1999 , 55, 5759-5772	5.7	7
115	Chemical Synthesis Elucidates the Key Antigenic Epitope of the Autism-Related Bacterium <i>Clostridium bolteae</i> Capsular Octadecasaccharide. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20529-20537	16.4	7
114	Analysis of Synthetic Monodisperse Polysaccharides by Wide Mass Range Ultrahigh-Resolution MALDI Mass Spectrometry. <i>Analytical Chemistry</i> , 2021 , 93, 4666-4675	7.8	7
113	Defining the Qualities of High-Quality Palladium on Carbon Catalysts for Hydrogenolysis. <i>Organic Process Research and Development</i> , 2021 , 25, 1573-1578	3.9	7
112	Automated glycan assembly of arabinomannan oligosaccharides from. <i>Beilstein Journal of Organic Chemistry</i> , 2019 , 15, 2936-2940	2.5	7
111	Systematic Structural Characterization of Chitooligosaccharides Enabled by Automated Glycan Assembly. <i>Chemistry - A European Journal</i> , 2021 , 27, 2321-2325	4.8	7
110	Glycan arrays and other tools produced by automated glycan assembly. <i>Perspectives in Science</i> , 2017 , 11, 11-17	0.8	6
109	Glycan-dependent cell adhesion mechanism of Tc toxins. <i>Nature Communications</i> , 2020 , 11, 2694	17.4	6
108	Wirklich grüße Synthese von Artemisinin aus Pflanzenextrakt. <i>Angewandte Chemie</i> , 2018 , 130, 5623-5626	3.6	6

107	Genetic characterization of an adapted pandemic 2009 H1N1 influenza virus that reveals improved replication rates in human lung epithelial cells. <i>Virology</i> , 2016 , 492, 118-29	3.6	6
106	Versatility of a glycosylphosphatidylinositol fragment in forming highly ordered polymorphs. <i>Langmuir</i> , 2014 , 30, 5185-92	4	6
105	Flow synthesis of a versatile fructosamine mimic and quenching studies of a fructose transport probe. <i>Beilstein Journal of Organic Chemistry</i> , 2013 , 9, 2022-7	2.5	6
104	Targeted photodynamic therapy with a novel photosensitizer cercosporin encapsulated multifunctional copolymer. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 585, 124136	5.1	6
103	Automated Glycan Assembly of F-labeled Glycan Probes Enables High-Throughput NMR Studies of Protein-Glycan Interactions. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13302-13309	16.4	6
102	Synthesis of α -Nitro Carbonyls via Nitrations in Flow. <i>Journal of Organic Chemistry</i> , 2016 , 81, 9415-9421	4.2	6
101	Safe and Scalable Continuous Flow Azidophenylselenylation of Galactal to Prepare Galactosamine Building Blocks. <i>Organic Process Research and Development</i> , 2019 , 23, 2764-2770	3.9	6
100	Semisynthesis of Functional Glycosylphosphatidylinositol-Anchored Proteins. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12035-12040	16.4	6
99	Materials science based on synthetic polysaccharides. <i>Materials Horizons</i> , 2020 , 7, 963-969	14.4	5
98	Chimeric oligosaccharide conjugate induces opsonic antibodies against serotypes 19A and 19F. <i>Chemical Science</i> , 2020 , 11, 7401-7407	9.4	5
97	Detection of Anti- Antibodies in Human Sera Using Synthetic Glycosylphosphatidylinositol Glycans on a Bead-Based Multiplex Assay. <i>Analytical Chemistry</i> , 2019 , 91, 11215-11222	7.8	5
96	A Semi-Synthetic Glycoconjugate Vaccine Candidate for Carbapenem-Resistant <i>Klebsiella pneumoniae</i> . <i>Angewandte Chemie</i> , 2017 , 129, 14161-14166	3.6	5
95	Synthetische Oligosaccharide belegen die immunologische Bedeutung der Pyruvatmodifikation im Kapselpolysaccharid von Serotyp 4 <i>Streptococcus pneumoniae</i> . <i>Angewandte Chemie</i> , 2015 , 127, 10154-10157	3.6	5
94	Protecting Group Manipulations on Glycosyl Phosphate Triesters. <i>Journal of Carbohydrate Chemistry</i> , 2007 , 26, 125-139	1.7	5
93	Total synthesis of D-glycero-D-manno-heptose 1,7-bisphosphate with 3-O-acyl amine linker and its monophosphate derivative. <i>Chinese Journal of Natural Medicines</i> , 2020 , 18, 628-632	2.8	5
92	Sequential Linkage of Carbohydrate Antigens to Mimic Capsular Polysaccharides: Toward Semisynthetic Glycoconjugate Vaccine Candidates against Serotype 14. <i>ACS Chemical Biology</i> , 2020 , 15, 2395-2405	4.9	5
91	Supramolecular Assembly and Chirality of Synthetic Carbohydrate Materials. <i>Angewandte Chemie</i> , 2020 , 132, 22766-22772	3.6	5
90	Microwave-Assisted Automated Glycan Assembly. <i>Journal of the American Chemical Society</i> , 2021 , 143, 8893-8901	16.4	5

89	Straightforward and robust synthesis of monodisperse surface-functionalized gold nanoclusters. <i>Beilstein Journal of Nanotechnology</i> , 2016 , 7, 1278-1283	3	5
88	Comparative characterization of two galectins excreted-secreted from intestine-dwelling parasitic versus free-living females of the soil-transmitted nematode <i>Strongyloides</i> . <i>Molecular and Biochemical Parasitology</i> , 2018 , 225, 73-83	1.9	5
87	Conformational locking of the glycosyl acceptor for stereocontrol in the key step in the synthesis of heparin. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 2128-31	16.4	5
86	Automated Glycan Assembly in a Variable-Bed Flow Reactor Provides Insights into Oligosaccharide-Resin Interactions. <i>Organic Letters</i> , 2020 , 22, 4213-4216	6.2	4
85	1,3-Dibromo-5,5-dimethylhydantoin as promoter for glycosylations using thioglycosides. <i>Beilstein Journal of Organic Chemistry</i> , 2017 , 13, 1994-1998	2.5	4
84	Nucleophil-dirigierte Stereokontrolle Bei Glykosylierungsreaktionen durch geminal-difluorierte Nucleophile. <i>Angewandte Chemie</i> , 2016 , 128, 14644-14648	3.6	4
83	Interaction between Glycosylphosphatidylinositol and the Host Protein Moesin Has No Implication in Malaria Pathology. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017 , 7, 183	5.9	4
82	Subgelphasenstruktur in Monoschichten von Glycosylphosphatidylinositol-Glycolipiden. <i>Angewandte Chemie</i> , 2012 , 124, 13046-13050	3.6	4
81	Biotin labeling of the symbiotically important succinoglycan oligosaccharides of <i>Rhizobium meliloti</i> for identification of putative plant receptors. <i>Carbohydrate Research</i> , 2001 , 333, 73-8	2.9	4
80	Synthesis of serotype 9V oligosaccharide antigens. <i>Beilstein Journal of Organic Chemistry</i> , 2020 , 16, 1693-1699	2.5	4
79	Synthesis of photolabile protecting group (PPG) protected uronic acid building blocks: applications in carbohydrate synthesis with the assistance of a continuous flow photoreactor. <i>Organic Chemistry Frontiers</i> , 2019 , 6, 3859-3863	5.2	4
78	Immunological Evaluation of Synthetic Glycosylphosphatidylinositol Glycoconjugates as Vaccine Candidates against Malaria. <i>ACS Chemical Biology</i> , 2020 , 15, 171-178	4.9	4
77	Combining radial and continuous flow synthesis to optimize and scale-up the production of medicines. <i>Reaction Chemistry and Engineering</i> , 2021 , 6, 220-224	4.9	4
76	Novel Palladium-Catalyzed Intramolecular Addition of Aryl Bromides to Aldehydes as Key to the Synthesis of 3,3-Dimethylchroman-4-ones and 3,3-Dimethylchroman-4-ols. <i>ChemistrySelect</i> , 2018 , 3, 11333-11338	1.8	4
75	Targeted Chemical Modifications Identify Key Features of Carbohydrate Assemblies and Generate Tailored Carbohydrate Materials. <i>Chemistry - A European Journal</i> , 2021 , 27, 13139-13143	4.8	4
74	Synthesis of Galactosylated Glycosylphosphatidylinositol Derivatives from <i>Trypanosoma brucei</i> . <i>Chemistry - A European Journal</i> , 2018 , 24, 3271-3282	4.8	3
73	Fucose-Migration in intakten protonierten Glykan-Ionen Ein universelles Phänomen in der Massenspektrometrie. <i>Angewandte Chemie</i> , 2018 , 130, 7562-7565	3.6	3
72	A new bifunctional chelator enables facile biocoupling and radiolabeling as the basis for a bioconjugation kit. <i>ChemBioChem</i> , 2014 , 15, 986-94	3.8	3

71	Chemical Synthesis of GPI Anchors and GPI-Anchored Molecules 2013 , 335-372		3
70	Detektion des Pesterregers durch Anti-Kohlenhydrat-Antikörper. <i>Angewandte Chemie</i> , 2013 , 125, 9702-9706		3
69	On resin synthesis of sulfated oligosaccharides.. <i>Chemical Science</i> , 2022 , 13, 2115-2120	9.4	3
68	Relevance of host cell surface glycan structure for cell specificity of influenza A virus		3
67	Chemical synthesis of the <i>Pseudomonas aeruginosa</i> O11 O-antigen trisaccharide based on neighboring electron-donating effect. <i>Journal of Carbohydrate Chemistry</i> , 2020 , 39, 374-397	1.7	3
66	Unveiling the Sugary Secrets of Parasites. <i>Frontiers in Microbiology</i> , 2021 , 12, 712538	5.7	3
65	High-Throughput Synthesis of Diverse Compound Collections for Lead Discovery and Optimization. <i>Handbook of Experimental Pharmacology</i> , 2016 , 232, 73-89	3.2	2
64	Chemical Synthesis and Immunological Evaluation of <i>Helicobacter pylori</i> Serotype O6 Tridecasaccharide O-Antigen Containing a dd-Heptoglycan. <i>Angewandte Chemie</i> , 2020 , 132, 13464-13472 ^{3,6}		2
63	Identification and Design of Synthetic B Cell Epitopes for Carbohydrate-Based Vaccines. <i>Methods in Enzymology</i> , 2017 , 597, 311-334	1.7	2
62	Solid-Phase Synthesis of Biologically Important Glycopeptides ²⁵⁷⁻²⁸¹		2
61	Synthesis of Oligosaccharides on Solid Support Using Thioglycosides and Pentenyl Glycosides ⁹⁹⁻¹¹⁶		2
60	The Use of O-Glycosyl Trichloroacetimidates for the Polymer-Supported Synthesis of Oligosaccharides ⁶⁷⁻⁹⁸		2
59	Tools for On-Bead Monitoring and Analysis in Solid-Phase Oligosaccharide Synthesis ¹⁶⁵⁻¹⁷⁴		2
58	A Remote Secondary Binding Pocket Promotes Heteromultivalent Targeting of DC-SIGN. <i>Journal of the American Chemical Society</i> , 2021 , 143, 18977-18988	16.4	2
57	Targeting the Central Pocket of the <i>Pseudomonas aeruginosa</i> Lectin LecA. <i>ChemBioChem</i> , 2021 ,	3.8	2
56	Automated glycan assembly of peptidoglycan backbone fragments. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 9829-9832	3.9	2
55	Position Matters: Fluorescent Positional Isomers for Reliable Multichannel Encryption Devices. <i>Chemistry - A European Journal</i> , 2021 , 27, 16098-16102	4.8	2
54	Rescue of Glycosylphosphatidylinositol-Anchored Protein Biosynthesis Using Synthetic Glycosylphosphatidylinositol Oligosaccharides. <i>ACS Chemical Biology</i> , 2021 , 16, 2297-2306	4.9	2

53	Druggable Allosteric Sites in β Propeller Lectins. <i>Angewandte Chemie - International Edition</i> , 2021 , 61, e202109339	16.4	2
52	Thermodynamic and Structural Behavior of β Galactosylceramide and C6-Functionalized β GalCer in 2D Layers at the Air-Liquid Interface. <i>ChemBioChem</i> , 2020 , 21, 241-247	3.8	2
51	Discovery of Oligosaccharide Antigens for Semi-Synthetic Glycoconjugate Vaccine Leads against <i>Streptococcus suis</i> Serotypes 2, 3, 9 and 14**. <i>Angewandte Chemie</i> , 2021 , 133, 14800-14813	3.6	2
50	Noncovalent microarrays from synthetic amino-terminating glycans: Implications in expanding glycan microarray diversity and platform comparison. <i>Glycobiology</i> , 2021 , 31, 931-946	5.8	2
49	Automatisierte Glykan-Assemblierung 19F-markierter Glykansonen ermöglicht Hochdurchsatz-NMR-Untersuchungen von Protein-Glykan-Interaktionen. <i>Angewandte Chemie</i> , 2021 , 133, 13414-13421	3.6	2
48	dual fluorescence imaging of mucin 1 and its glycoform in tumor cells. <i>Nanoscale</i> , 2021 , 13, 15067-15073	7.7	2
47	In vitro efficacy of Artemisia extracts against SARS-CoV-2		2
46	Non-Toxic Glycosylated Gold Nanoparticle-Amphotericin B Conjugates Reduce Biofilms and Intracellular Burden of Fungi and Parasites. <i>Advanced Therapeutics</i> , 2021 , 4, 2000293	4.9	2
45	Artemisinin inhibits NRas palmitoylation by targeting the protein acyltransferase ZDHHC6. <i>Cell Chemical Biology</i> , 2021 ,	8.2	2
44	Semi- and fully synthetic carbohydrate vaccines against pathogenic bacteria: recent developments. <i>Biochemical Society Transactions</i> , 2021 , 49, 2411-2429	5.1	2
43	Toxoplasmose-Diagnose mithilfe eines synthetisch hergestellten Glycosylphosphatidylinositol-Glycans. <i>Angewandte Chemie</i> , 2014 , 126, 13920-13924	3.6	1
42	Preparation and Screening of Glycopeptide Libraries	283-304	1
41	Automatisierte Festphasensynthese von Oligosacchariden. <i>Nachrichten Aus Der Chemie</i> , 2002 , 50, 940-945	1	1
40	The Glycal Assembly Method on Solid Supports: Synthesis of Oligosaccharides and Glycoconjugates	15-40	1
39	Solid-Phase Carbohydrate Synthesis: The Early Work	1-13	1
38	Polyethyleneglycol β Monomethylether (MPEG)-Supported Solution-Phase Synthesis of Oligosaccharides	175-199	1
37	Expedited synthesis of mannose-6-phosphate containing oligosaccharides.. <i>Carbohydrate Research</i> , 2021 , 511, 108489	2.9	1
36	Glycan Microarrays Containing Synthetic <i>Streptococcus pneumoniae</i> CPS Fragments and Their Application to Vaccine Development.. <i>Methods in Molecular Biology</i> , 2022 , 2460, 193-206	1.4	1

35	Automated Synthesis of Chondroitin Sulfate Oligosaccharides. <i>Methods in Molecular Biology</i> , 2022 , 2303, 319-327	1.4	1
34	Total Syntheses of Conjugation-Ready Repeating Units of <i>Acinetobacter baumannii</i> AB5075 for Glycoconjugate Vaccine Development. <i>Chemistry - A European Journal</i> , 2021 , 27, 17444-17451	4.8	1
33	Semisynthesis of Functional Glycosylphosphatidylinositol-Anchored Proteins. <i>Angewandte Chemie</i> , 2020 , 132, 12133-12138	3.6	1
32	Automated Glycan Assembly of Oligogalactofuranosides Reveals the Influence of Protecting Groups on Oligosaccharide Stability. <i>Journal of Organic Chemistry</i> , 2021 , 86, 7280-7287	4.2	1
31	Evaluation of Multivalent Sialylated Polyglycerols for Resistance Induction in and Broad Antiviral Activity against Influenza A Viruses. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 12774-12789	8.3	1
30	Recent advances in automated solid-phase carbohydrate synthesis: from screening to vaccines. <i>Current Opinion in Drug Discovery & Development</i> , 2003 , 6, 521-5		1
29	Genome-wide CRISPR screen reveals CLPTM1L as a lipid scramblase required for efficient glycosylphosphatidylinositol biosynthesis.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2115083119	11.5	1
28	Rapid Chemo-Enzymatic Synthesis of Peracetylated GlcNAcβGalαGlycones. <i>Journal of Carbohydrate Chemistry</i> , 2011 , 30, 373-390	1.7	0
27	The Flexibility of Oligosaccharides Unveiled Through Residual Dipolar Coupling Analysis. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 784318	5.6	0
26	Probing Multivalent Carbohydrate-Protein Interactions With On-Chip Synthesized Glycopeptides Using Different Functionalized Surfaces. <i>Frontiers in Chemistry</i> , 2021 , 9, 766932	5	0
25	Chemical Synthesis Elucidates the Key Antigenic Epitope of the Autism-Related Bacterium <i>Clostridium bolteae</i> Capsular Octadecasaccharide. <i>Angewandte Chemie</i> , 2020 , 132, 20710-20718	3.6	0
24	Advances in the Chemical Synthesis of Carbohydrates and Glycoconjugates. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2021 , 175, 201-230	1.7	0
23	Comparative structural, biophysical, and receptor binding study of true type and wild type AAV2. <i>Journal of Structural Biology</i> , 2021 , 213, 107795	3.4	0
22	Automated Oligosaccharide Synthesis: The Past, Present, and Future 2021 , 561-601		0
21	Sialylated N -glycans mediate monocyte uptake of extracellular vesicles secreted from <i>Plasmodium falciparum</i> -infected red blood cells 2022 , 1,		0
20	The Beilstein Journal of Organic Chemistry and the changing face of scientific publishing. <i>Beilstein Journal of Organic Chemistry</i> , 2015 , 11, 2242-4	2.5	
19	Beilstein Journal of Organic Chemistry: Open Access comes of age in Organic Chemistry. <i>Beilstein Journal of Organic Chemistry</i> , 2012 , 8, 1284-6	2.5	
18	Back Cover: Automated Solid-Phase Synthesis of αMannuronic Acid Alginates (Angew. Chem. Int. Ed. 18/2012). <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4492-4492	16.4	

- 17 Inside Cover: RAFT-Derived PolymerDrug Conjugates: Poly(hydroxypropyl methacrylamide) (HPMA)-Ethyl-10-hydroxycamptothecin (SN-38) Conjugates (ChemMedChem 2/2012). *ChemMedChem*, **2012**, 7, 178-178 3.7
- 16 Controlling science. *ACS Chemical Biology*, **2010**, 5, 623-4 4.9
- 15 Chapter 11 GPI-Based Malarial Vaccine. *The Enzymes*, **2009**, 26, 229-245 2.3
- 14 A higher degree of difficulty. *ACS Chemical Biology*, **2007**, 2, 197-9 4.9
- 13 Synthesis of C-Glycosides with Glycosyl Phosphates. *ACS Symposium Series*, **2005**, 81-92 0.4
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- 5 Click, Zoom, Explore: Interactive 3D (i-3D) Figures in Standard Teaching Materials (PDFs). *Journal of Chemical Education*, **2021**, 98, 3470-3475 2.4
- 4 Synthesis and Use of Glycosyl Phosphates as Glycosyl Donors **2005**, 225-234
- 3 Allosterische, Wirkstoff-zugängliche Bindestellen in β -Propeller-Lektinen. *Angewandte Chemie*, **2022**, 134, e202109339 3.6
- 2 Zwitterionic Character and Lipid Composition Determine the Behaviour of Glycosylphosphatidylinositol Fragments in Monolayers. *ChemPhysChem*, **2021**, 22, 757-763 3.2
- 1 Orthogonally Protected Building Blocks for Automated Glycan Assembly **2019**, 451-471