

Peter H Seeberger

List of Publications by Year in descending order

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559
papers

33,212
citations

3325

91
h-index

8370

147
g-index

598
all docs

598
docs citations

598
times ranked

22840
citing authors

#	ARTICLE	IF	CITATIONS
1	The Hitchhiker's Guide to Flow Chemistry. <i>Chemical Reviews</i> , 2017, 117, 11796-11893.	23.0	1,410
2	Automated Solid-Phase Synthesis of Oligosaccharides. <i>Science</i> , 2001, 291, 1523-1527.	6.0	834
3	Symbol Nomenclature for Graphical Representations of Glycans. <i>Glycobiology</i> , 2015, 25, 1323-1324.	1.3	818
4	Synthesis and medical applications of oligosaccharides. <i>Nature</i> , 2007, 446, 1046-1051.	13.7	656
5	Solid-Phase Oligosaccharide Synthesis and Combinatorial Carbohydrate Libraries. <i>Chemical Reviews</i> , 2000, 100, 4349-4394.	23.0	469
6	Continuous-Flow Synthesis of the Anti-Malaria Drug Artemisinin. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1706-1709.	7.2	463
7	Synthetic GPI as a candidate anti-toxic vaccine in a model of malaria. <i>Nature</i> , 2002, 418, 785-789.	13.7	454
8	Detection of Bacteria with Carbohydrate-Functionalized Fluorescent Polymers. <i>Journal of the American Chemical Society</i> , 2004, 126, 13343-13346.	6.6	436
9	Microreactors as Tools for Synthetic Chemists: The Chemists' Round-Bottomed Flask of the 21st Century?. <i>Chemistry - A European Journal</i> , 2006, 12, 8434-8442.	1.7	433
10	Applying Flow Chemistry: Methods, Materials, and Multistep Synthesis. <i>Journal of Organic Chemistry</i> , 2013, 78, 6384-6389.	1.7	428
11	Automated oligosaccharide synthesis. <i>Chemical Society Reviews</i> , 2008, 37, 19-28.	18.7	289
12	Identification of carbohydrate anomers using ion mobility mass spectrometry. <i>Nature</i> , 2015, 526, 241-244.	13.7	287
13	The Use of Carbohydrate Microarrays to Study Carbohydrate-Cell Interactions and to Detect Pathogens. <i>Chemistry and Biology</i> , 2004, 11, 1701-1707.	6.2	272
14	Exploring the Structural Diversity of Mammalian Carbohydrates (Glycospace) by Statistical Databank Analysis. <i>ACS Chemical Biology</i> , 2007, 2, 685-691.	1.6	245
15	Oligosaccharide and Glycoprotein Microarrays as Tools in HIV Glycobiology. <i>Chemistry and Biology</i> , 2004, 11, 875-881.	6.2	231
16	In Vitro Imaging and In Vivo Liver Targeting with Carbohydrate Capped Quantum Dots. <i>Journal of the American Chemical Society</i> , 2009, 131, 2110-2112.	6.6	228
17	Automated synthesis of oligosaccharides as a basis for drug discovery. <i>Nature Reviews Drug Discovery</i> , 2005, 4, 751-763.	21.5	227
18	Microarrays of Synthetic Heparin Oligosaccharides. <i>Journal of the American Chemical Society</i> , 2006, 128, 2766-2767.	6.6	223

#	ARTICLE	IF	CITATIONS
19	Carbohydrates in Supramolecular Chemistry. <i>Chemical Reviews</i> , 2016, 116, 1693-1752.	23.0	217
20	Modular Synthesis of Heparin Oligosaccharides. <i>Chemistry - A European Journal</i> , 2003, 9, 140-169.	1.7	203
21	Highly Efficient Continuous Flow Reactions Using Singlet Oxygen as a "Green" Reagent. <i>Organic Letters</i> , 2011, 13, 5008-5011.	2.4	190
22	The Logic of Automated Glycan Assembly. <i>Accounts of Chemical Research</i> , 2015, 48, 1450-1463.	7.6	187
23	A Continuous-Flow Process for the Synthesis of Artemisinin. <i>Chemistry - A European Journal</i> , 2013, 19, 5450-5456.	1.7	186
24	Tools for Glycomics: Mapping Interactions of Carbohydrates in Biological Systems. <i>ChemBioChem</i> , 2004, 5, 1375-1383.	1.3	183
25	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, 8664-8686.	1.7	182
26	Carbohydrate arrays as tools for research and diagnostics. <i>Chemical Society Reviews</i> , 2008, 37, 1414.	18.7	178
27	Oligosaccharide Synthesis with Glycosyl Phosphate and Dithiophosphate Triesters as Glycosylating Agents. <i>Journal of the American Chemical Society</i> , 2001, 123, 9545-9554.	6.6	177
28	Carbohydrates as the Next Frontier in Pharmaceutical Research. <i>Chemistry - A European Journal</i> , 2005, 11, 3194-3206.	1.7	176
29	Probing Protein-Carbohydrate Interactions with Microarrays of Synthetic Oligosaccharides. <i>ChemBioChem</i> , 2004, 5, 379-383.	1.3	166
30	Microreactor-based reaction optimization in organic chemistry-glycosylation as a challenge. <i>Chemical Communications</i> , 2005, , 578-580.	2.2	162
31	Structures of the Complexes of a Potent Anti-HIV Protein Cyanovirin-N and High Mannose Oligosaccharides. <i>Journal of Biological Chemistry</i> , 2002, 277, 34336-34342.	1.6	161
32	Automated Solid-Phase Synthesis of Chondroitin Sulfate Glycosaminoglycans. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5858-5861.	7.2	150
33	Multiple Modes of Binding Enhance the Affinity of DC-SIGN for High Mannose N-Linked Glycans Found on Viral Glycoproteins. <i>Journal of Biological Chemistry</i> , 2007, 282, 4202-4209.	1.6	149
34	Profiling Heparin-Chemokine Interactions Using Synthetic Tools. <i>ACS Chemical Biology</i> , 2007, 2, 735-744.	1.6	149
35	Total Synthesis of Antigen Bacillus Anthracis Tetrasaccharide-Creation of an Anthrax Vaccine Candidate. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6315-6318.	7.2	148
36	Synthesis and Use of Glycosyl Phosphates as Glycosyl Donors. <i>Organic Letters</i> , 1999, 1, 211-214.	2.4	146

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37	Applications of synthetic carbohydrates to chemical biology. <i>Current Opinion in Chemical Biology</i> , 2010, 14, 404-411.	2.8	146
38	Continuous-Flow Oxidative Cyanation of Primary and Secondary Amines Using Singlet Oxygen. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 557-561.	7.2	145
39	Carbohydrates: A Frontier in Medicinal Chemistry. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 5561-5577.	2.9	144
40	Automated radial synthesis of organic molecules. <i>Nature</i> , 2020, 579, 379-384.	13.7	140
41	The affinity of the FimH fimbrial adhesin is receptor-driven and quasi-independent of <i>Escherichia coli</i> pathotypes. <i>Molecular Microbiology</i> , 2006, 61, 1556-1568.	1.2	139
42	Chemical Biology Approaches to Designing Defined Carbohydrate Vaccines. <i>Chemistry and Biology</i> , 2014, 21, 38-50.	6.2	139
43	Methicillin-resistant <i>Staphylococcus aureus</i> alters cell wall glycosylation to evade immunity. <i>Nature</i> , 2018, 563, 705-709.	13.7	137
44	Total Synthesis of Polysaccharides by Automated Glycan Assembly. <i>Journal of the American Chemical Society</i> , 2020, 142, 8561-8564.	6.6	137
45	Continuous Heterogeneous Photocatalysis in Serial Micro-Batch Reactors. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9976-9979.	7.2	134
46	Automated Glycan Assembly: A Perspective. <i>Journal of the American Chemical Society</i> , 2019, 141, 5581-5592.	6.6	134
47	Carbohydrate Arrays as Tools for Glycomics. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3583-3586.	7.2	133
48	Asymmetric reactions in continuous flow. <i>Beilstein Journal of Organic Chemistry</i> , 2009, 5, 19.	1.3	133
49	Natural Cytotoxicity Receptors NKp30, NKp44 and NKp46 Bind to Different Heparan Sulfate/Heparin Sequences. <i>Journal of Proteome Research</i> , 2009, 8, 712-720.	1.8	132
50	Continuous Flow Photochemistry. <i>Chemical Record</i> , 2014, 14, 410-418.	2.9	132
51	Gut microbiota-specific IgA ⁺ B cells traffic to the CNS in active multiple sclerosis. <i>Science Immunology</i> , 2020, 5, .	5.6	132
52	How to approach flow chemistry. <i>Chemical Society Reviews</i> , 2020, 49, 8910-8932.	18.7	131
53	Rapid Synthesis of a Glycosylphosphatidylinositol-Based Malaria Vaccine Using Automated Solid-Phase Oligosaccharide Synthesis. <i>Journal of the American Chemical Society</i> , 2002, 124, 13434-13436.	6.6	130
54	Streamlined access to conjugation-ready glycans by automated synthesis. <i>Chemical Science</i> , 2012, 3, 1617.	3.7	130

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55	Quantitative mapping of glycoprotein microheterogeneity and macroheterogeneity: an evaluation of mass spectrometry signal strengths using synthetic peptides and glycopeptides. <i>Journal of Mass Spectrometry</i> , 2013, 48, 627-639.	0.7	130
56	Chemical Approaches to Define the Structure-Activity Relationship of Heparin-like Glycosaminoglycans. <i>Chemistry and Biology</i> , 2005, 12, 731-756.	6.2	127
57	Automated Synthesis of the Tumor-Associated Carbohydrate Antigens Gb-3 and Globo-H: Incorporation of α -Galactosidic Linkages. <i>Journal of the American Chemical Society</i> , 2007, 129, 2770-2771.	6.6	127
58	5-(Pyrrolidin-2-yl)tetrazole-Catalyzed Aldol and Mannich Reactions: Acceleration and Lower Catalyst Loading in a Continuous-Flow Reactor. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2699-2702.	7.2	121
59	Solid-Phase Oligosaccharide Synthesis: Preparation of Complex Structures Using a Novel Linker and Different Glycosylating Agents. <i>Organic Letters</i> , 1999, 1, 1811-1814.	2.4	120
60	Comparative bioinformatics analysis of the mammalian and bacterial glycomes. <i>Chemical Science</i> , 2011, 2, 337-344.	3.7	120
61	Synthetic GPI array to study antitoxic malaria response. <i>Nature Chemical Biology</i> , 2008, 4, 238-240.	3.9	119
62	Continuous synthesis of artemisinin-derived medicines. <i>Chemical Communications</i> , 2014, 50, 12652-12655.	2.2	118
63	Multivalency at Interfaces: Supramolecular Carbohydrate-Functionalized Graphene Derivatives for Bacterial Capture, Release, and Disinfection. <i>Nano Letters</i> , 2015, 15, 6051-6057.	4.5	117
64	Glycan Fingerprinting via Cold-Atom Infrared Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11248-11251.	7.2	116
65	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.	7.6	115
66	Carbohydrate-Lectin Recognition of Sequence-Defined Heteromultivalent Glycooligomers. <i>Journal of the American Chemical Society</i> , 2014, 136, 2008-2016.	6.6	114
67	Anti-Carbohydrate Antibodies for the Detection of Anthrax Spores. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6581-6582.	7.2	113
68	Halobenzyl Ethers as Protecting Groups for Organic Synthesis. <i>Journal of the American Chemical Society</i> , 2000, 122, 7148-7149.	6.6	112
69	Automated Solid-Phase Synthesis of Protected Tumor-Associated Antigen and Blood Group Determinant Oligosaccharides. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 602-605.	7.2	112
70	Glycomics, glycoproteomics and the immune system. <i>Current Opinion in Chemical Biology</i> , 2012, 16, 214-220.	2.8	109
71	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, 507-519.	1.2	109
72	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.	1.2	108

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73	Advancing Solutions to the Carbohydrate Sequencing Challenge. <i>Journal of the American Chemical Society</i> , 2019, 141, 14463-14479.	6.6	108
74	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.	7.2	108
75	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.	6.6	105
76	Chemical Synthesis of All Phosphatidylinositol Mannoside (PIM) Glycans from <i>Mycobacterium tuberculosis</i> . <i>Journal of the American Chemical Society</i> , 2008, 130, 16791-16799.	6.6	105
77	Differential Adeno-Associated Virus Serotype-Specific Interaction Patterns with Synthetic Heparins and Other Glycans. <i>Journal of Virology</i> , 2014, 88, 2991-3003.	1.5	102
78	An Empirical Understanding of the Glycosylation Reaction. <i>Journal of the American Chemical Society</i> , 2018, 140, 11942-11953.	6.6	101
79	Microreactor Synthesis of Î²-Peptides. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7000-7003.	7.2	100
80	Automated carbohydrate synthesis to drive chemical glycomics. <i>Chemical Communications</i> , 2003, , 1115-1121.	2.2	99
81	Synthesis of Fullerene Glycoconjugates via a Copper-Catalyzed Huisgen Cycloaddition Reaction. <i>Organic Letters</i> , 2007, 9, 4611-4614.	2.4	99
82	Chemical Assembly Systems: Layered Control for Divergent, Continuous, Multistep Syntheses of Active Pharmaceutical Ingredients. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 678-682.	7.2	99
83	A Concise Flow Synthesis of Efavirenz. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4945-4948.	7.2	99
84	Recent advances in carbohydrate-based vaccines. <i>Current Opinion in Chemical Biology</i> , 2009, 13, 354-359.	2.8	98
85	Automated Polysaccharide Synthesis: Assembly of a 30mer Mannoside. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5862-5865.	7.2	96
86	A semisynthetic carbohydrate-lipid vaccine that protects against <i>S. pneumoniae</i> in mice. <i>Nature Chemical Biology</i> , 2014, 10, 950-956.	3.9	96
87	New 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 Grant) Tj ETQq1 1 0.784314 rg05 /Over	7.2	95
88	(Award CHE 9888061). Funding for the MIT-DCIF. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 44	2.4	95
89	Oligosaccharide Synthesis in Microreactors. <i>Organic Letters</i> , 2007, 9, 2285-2288.	2.4	95
90	Synthesis of Carbohydrate-Functionalized Quantum Dots in Microreactors. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2054-2057.	7.2	95
90	<i>Caenorhabditis elegans</i> N-glycan Core Î²-galactoside Confers Sensitivity towards Nematotoxic Fungal Galectin CGL2. <i>PLoS Pathogens</i> , 2010, 6, e1000717.	2.1	95

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91	Automated Solid-Phase Synthesis of α -Mannuronic Acid Alginates. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4393-4396.	7.2	95
92	Total Synthesis of Phosphatidylinositol Mannosides of <i>Mycobacterium tuberculosis</i> . <i>Journal of the American Chemical Society</i> , 2006, 128, 3638-3648.	6.6	94
93	Automated Synthesis of Arabinoxylan- α -Oligosaccharides Enables Characterization of Antibodies that Recognize Plant Cell Wall Glycans. <i>Chemistry - A European Journal</i> , 2015, 21, 5709-5713.	1.7	94
94	Carbohydrate diversity: synthesis of glycoconjugates and complex carbohydrates. <i>Current Opinion in Biotechnology</i> , 2004, 15, 615-622.	3.3	93
95	Semisynthesis of a Glycosylphosphatidylinositol-Anchored Prion Protein. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8215-8219.	7.2	93
96	Linear Synthesis of a Protected H-Type II Pentasaccharide Using Glycosyl Phosphate Building Blocks. <i>Journal of Organic Chemistry</i> , 2001, 66, 8165-8176.	1.7	92
97	A Possible Oligosaccharide-Conjugate Vaccine Candidate for <i>Clostridium difficile</i> Is Antigenic and Immunogenic. <i>Chemistry and Biology</i> , 2011, 18, 580-588.	6.2	92
98	Automated glycan assembly using the Glycoconer 2.1 synthesizer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3385-E3389.	3.3	92
99	Semiheterogeneous Dual Nickel/Photocatalytic (Thio)etherification Using Carbon Nitrides. <i>Organic Letters</i> , 2019, 21, 5331-5334.	2.4	92
100	Multisite and Multivalent Binding between Cyanovirin-N and Branched Oligomannosides. <i>Chemistry and Biology</i> , 2002, 9, 1109-1118.	6.2	91
101	Distinguishing N-acetylneuraminic acid linkage isomers on glycopeptides by ion mobility-mass spectrometry. <i>Chemical Communications</i> , 2016, 52, 4381-4384.	2.2	91
102	Discovery of Semi- and Fully-Synthetic Carbohydrate Vaccines Against Bacterial Infections Using a Medicinal Chemistry Approach. <i>Chemical Reviews</i> , 2021, 121, 3598-3626.	23.0	91
103	Cantilever Array Sensors Detect Specific Carbohydrate-Protein Interactions with Picomolar Sensitivity. <i>ACS Nano</i> , 2011, 5, 3670-3678.	7.3	89
104	Synthesis of a Core Arabinomannan Oligosaccharide of <i>Mycobacterium tuberculosis</i> . <i>Journal of Organic Chemistry</i> , 2006, 71, 8071-8088.	1.7	88
105	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, 116, 26157-26166.	3.3	88
106	A Highly Convergent Total Synthetic Route to Glycopeptides Carrying a High-Mannose Core Pentasaccharide Domain α -linked to a Natural Peptide Motif. <i>Chemistry - A European Journal</i> , 1997, 3, 1617-1628.	1.7	87
107	Automated Solid-Phase Synthesis of Protected Oligosaccharides Containing α -Mannosidic Linkages. <i>Chemistry - A European Journal</i> , 2008, 14, 3987-3994.	1.7	86
108	Immunological Evaluation of a Synthetic <i>Clostridium difficile</i> Oligosaccharide Conjugate Vaccine Candidate and Identification of a Minimal Epitope. <i>Journal of the American Chemical Society</i> , 2013, 135, 9713-9722.	6.6	86

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109	Efficient Installation of β -Mannosides Using a Dehydrative Coupling Strategy. <i>Organic Letters</i> , 2005, 7, 3251-3254.	2.4	84
110	Potential of Fibroblast Growth Factor Activity by Synthetic Heparin Oligosaccharide Glycodendrimers. <i>Chemistry and Biology</i> , 2007, 14, 879-887.	6.2	84
111	Continuous Synthesis and Purification by Direct Coupling of a Flow Reactor with Simulated Moving-Bed Chromatography. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7028-7030.	7.2	84
112	Tumour-Targeted Drug Delivery with Mannose-Functionalized Nanoparticles Self-Assembled from Amphiphilic β -Cyclodextrins. <i>Chemistry - A European Journal</i> , 2016, 22, 15216-15221.	1.7	84
113	Solution and Solid-Support Synthesis of a Potential Leishmaniasis Carbohydrate Vaccine. <i>Journal of Organic Chemistry</i> , 2001, 66, 4233-4243.	1.7	83
114	Optimization of Localized Surface Plasmon Resonance Transducers for Studying Carbohydrate-Protein Interactions. <i>Analytical Chemistry</i> , 2012, 84, 232-240.	3.2	83
115	Visible-light-mediated photochemistry: accelerating Ru(bpy) ₃ ²⁺ -catalyzed reactions in continuous flow. <i>Chemical Science</i> , 2012, 3, 1612.	3.7	82
116	Well-Defined Oligo- and Polysaccharides as Ideal Probes for Structural Studies. <i>Journal of the American Chemical Society</i> , 2018, 140, 5421-5426.	6.6	82
117	Combined Approaches to the Synthesis and Study of Glycoproteins. <i>ACS Chemical Biology</i> , 2009, 4, 703-713.	1.6	81
118	Hexameric Supramolecular Scaffold Orients Carbohydrates To Sense Bacteria. <i>Journal of the American Chemical Society</i> , 2011, 133, 13957-13966.	6.6	80
119	Energy-Efficient Solar Photochemistry with Luminescent Solar Concentrator Based Photomicroreactors. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14374-14378.	7.2	80
120	Systematic Hydrogen-Bond Manipulations To Establish Polysaccharide Structure-Property Correlations. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13127-13132.	7.2	76
121	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.	7.2	76
122	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.	4.4	75
123	Chemical glycobiology: why now?. <i>Nature Chemical Biology</i> , 2009, 5, 368-372.	3.9	75
124	Chemical Biology of Glycosylphosphatidylinositol Anchors. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11438-11456.	7.2	75
125	Evaluation of a Group A Streptococcus synthetic oligosaccharide as vaccine candidate. <i>Vaccine</i> , 2010, 29, 104-114.	1.7	74
126	Convergent Synthesis of a Fully Lipidated Glycosylphosphatidylinositol Anchor of Plasmodium falciparum. <i>Journal of the American Chemical Society</i> , 2005, 127, 5004-5005.	6.6	73

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127	Design, synthesis and biological evaluation of carbohydrate-functionalized cyclodextrins and liposomes for hepatocyte-specific targeting. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 4987.	1.5	73
128	Continuous flow photolysis of aryl azides: Preparation of 3 <i>H</i> -azepinones. <i>Beilstein Journal of Organic Chemistry</i> , 2011, 7, 1124-1129.	1.3	73
129	A semisynthetic <i>Streptococcus pneumoniae</i> serotype 8 glycoconjugate vaccine. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	73
130	Imaging single glycans. <i>Nature</i> , 2020, 582, 375-378.	13.7	72
131	Enhancement of the Immunogenicity of Synthetic Carbohydrates by Conjugation to Virosomes: A Leishmaniasis Vaccine Candidate. <i>ACS Chemical Biology</i> , 2006, 1, 161-164.	1.6	71
132	Glycan Arrays: From Basic Biochemical Research to Bioanalytical and Biomedical Applications. <i>Annual Review of Analytical Chemistry</i> , 2016, 9, 223-247.	2.8	71
133	Janus Emulsions for the Detection of Bacteria. <i>ACS Central Science</i> , 2017, 3, 309-313.	5.3	71
134	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.	3.3	71
135	Carbohydrate-Mediated Targeting of Antigen to Dendritic Cells Leads to Enhanced Presentation of Antigen to T Cells. <i>ChemBioChem</i> , 2008, 9, 294-303.	1.3	70
136	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, 3090-3098.	1.7	70
137	Automated assembly of oligosaccharides containing multiple cis-glycosidic linkages. <i>Nature Communications</i> , 2016, 7, 12482.	5.8	70
138	Accelerated Continuous Flow RAFT Polymerization. <i>Macromolecules</i> , 2010, 43, 10311-10314.	2.2	69
139	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.	4.8	69
140	Synthesis of a Sialic Acid α (2 \rightarrow 3) Galactose Building Block and Its Use in a Linear Synthesis of Sialyl Lewis X. <i>Organic Letters</i> , 2007, 9, 1777-1779.	2.4	68
141	A Semi-Synthetic Glycoconjugate Vaccine Candidate for Carbapenem-Resistant <i>Klebsiella pneumoniae</i> . <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13973-13978.	7.2	68
142	Discrimination of <i>Escherichia coli</i> Strains using Glycan Cantilever Array Sensors. <i>Nano Letters</i> , 2012, 12, 420-423.	4.5	67
143	Imaging Early Endothelial Inflammation Following Stroke by Core Shell Silica Superparamagnetic Glyconanoparticles That Target Selectin. <i>Nano Letters</i> , 2014, 14, 2130-2134.	4.5	67
144	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.	4.0	67

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145	Synthesis of C-Aryl and C-Alkyl Glycosides Using Glycosyl Phosphates. <i>Organic Letters</i> , 2001, 3, 1547-1550.	2.4	66
146	Conformational Locking of the Glycosyl Acceptor for Stereocontrol in the Key Step in the Synthesis of Heparin Financial support from the National Institutes of Health (HL-64799 and HL-62598), The Research Corporation (Research Innovation Award to P.H.S.), CaP CURE (Research Awards to P.H.S.), FOMEC (Postdoctoral Fellowship for H.A.O.), CNRI (Italian National Research Center, Postdoctoral)	7.2	64
147	De Novo Synthesis of Uronic Acid Building Blocks for Assembly of Heparin Oligosaccharides. <i>Chemistry - A European Journal</i> , 2007, 13, 4510-4522.	1.7	64
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