Carolyn R Bertozzi

List of Publications by Year
in descending order

555	60,080	902 116	1185 228
papers	citations	h-index	g-index

611	611	611	42673
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bioorthogonal Chemistry: Fishing for Selectivity in a Sea of Functionality. Angewandte Chemie - International Edition, 2009, 48, 6974-6998.	7.2	2,604
2	A Strain-Promoted [3 + 2] Azideâ"Alkyne Cycloaddition for Covalent Modification of Biomolecules in Living Systems. Journal of the American Chemical Society, 2004, 126, 15046-15047.	6.6	2,276
3	Cell Surface Engineering by a Modified Staudinger Reaction. Science, 2000, 287, 2007-2010.	6.0	2,109
4	Copper-free click chemistry for dynamic in vivo imaging. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16793-16797.	3.3	1,587
5	Glycans in cancer and inflammation â€" potential for therapeutics and diagnostics. Nature Reviews Drug Discovery, 2005, 4, 477-488.	21.5	1,437
6	Cu-free click cycloaddition reactions in chemical biology. Chemical Society Reviews, 2010, 39, 1272.	18.7	1,410
7	Chemistry in living systems. Nature Chemical Biology, 2005, 1, 13-21.	3.9	1,290
8	Coadsorption of ferrocene-terminated and unsubstituted alkanethiols on gold: electroactive self-assembled monolayers. Journal of the American Chemical Society, 1990, 112, 4301-4306.	6.6	987
9	In Vivo Imaging of Membrane-Associated Glycans in Developing Zebrafish. Science, 2008, 320, 664-667.	6.0	913
10	From Mechanism to Mouse: A Tale of Two Bioorthogonal Reactions. Accounts of Chemical Research, 2011, 44, 666-676.	7.6	893
11	Incorporation of azides into recombinant proteins for chemoselective modification by the Staudinger ligation. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 19-24.	3.3	855
12	Symbol Nomenclature for Graphical Representations of Glycans. Glycobiology, 2015, 25, 1323-1324.	1.3	818
13	Synthesis, Characterization, and Theory of [9]-, [12]-, and [18]Cycloparaphenylene: Carbon Nanohoop Structures. Journal of the American Chemical Society, 2008, 130, 17646-17647.	6.6	812
14	Chemical remodelling of cell surfaces in living animals. Nature, 2004, 430, 873-877.	13.7	722
15	Engineering Chemical Reactivity on Cell Surfaces Through Oligosaccharide Biosynthesis. Science, 1997, 276, 1125-1128.	6.0	720
16	A Comparative Study of Bioorthogonal Reactions with Azides. ACS Chemical Biology, 2006, 1, 644-648.	1.6	647
17	The cancer glycocalyx mechanically primes integrin-mediated growth and survival. Nature, 2014, 511, 319-325.	13.7	610
18	A â€œTracelessâ€•Staudinger Ligation for the Chemoselective Synthesis of Amide Bonds. Organic Letters, 2000, 2, 2141-2143.	2.4	592

#	Article	IF	Citations
19	Rapid Cu-Free Click Chemistry with Readily Synthesized Biarylazacyclooctynones. Journal of the American Chemical Society, 2010, 132, 3688-3690.	6.6	591
20	How many human proteoforms are there?. Nature Chemical Biology, 2018, 14, 206-214.	3.9	580
21	Copper-free click chemistry in living animals. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1821-1826.	3.3	560
22	Lipid-droplet-accumulating microglia represent a dysfunctional and proinflammatory state in the aging brain. Nature Neuroscience, 2020, 23, 194-208.	7.1	558
23	Boron Nitride Nanotubes Are Noncytotoxic and Can Be Functionalized for Interaction with Proteins and Cells. Journal of the American Chemical Society, 2009, 131, 890-891.	6.6	522
24	A chemical approach for identifying O-GlcNAc-modified proteins in cells. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9116-9121.	3.3	496
25	Lysosome-targeting chimaeras for degradation of extracellular proteins. Nature, 2020, 584, 291-297.	13.7	489
26	Second-Generation Difluorinated Cyclooctynes for Copper-Free Click Chemistry. Journal of the American Chemical Society, 2008, 130, 11486-11493.	6.6	482
27	Site-Specific Antibodyâ€“Drug Conjugates: The Nexus of Bioorthogonal Chemistry, Protein Engineering, and Drug Development. Bioconjugate Chemistry, 2015, 26, 176-192.	1.8	476
28	A metabolic labeling approach toward proteomic analysis of mucin-type O-linked glycosylation. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14846-14851.	3.3	470
29	The selectins and their ligands. Current Opinion in Cell Biology, 1994, 6, 663-673.	2.6	455
30	Introducing genetically encoded aldehydes into proteins. Nature Chemical Biology, 2007, 3, 321-322.	3.9	411
31	Glycocalyx engineering reveals a Siglec-based mechanism for NK cell immunoevasion. Nature Chemical Biology, 2014, 10, 69-75.	3.9	390
32	Fmoc-Based Synthesis of Peptide-Î±Thioesters:Â Application to the Total Chemical Synthesis of a Glycoprotein by Native Chemical Ligation. Journal of the American Chemical Society, 1999, 121, 11684-11689.	6.6	368
33	A cell nanoinjector based on carbon nanotubes. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 8218-8222.	3.3	366
34	In vivo imaging of hydrogen peroxide production in a murine tumor model with a chemoselective bioluminescent reporter. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21316-21321.	3.3	356
35	Redirecting lipoic acid ligase for cell surface protein labeling with small-molecule probes. Nature Biotechnology, 2007, 25, 1483-1487.	9.4	340
36	Precision glycocalyx editing as a strategy for cancer immunotherapy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10304-10309.	3.3	328

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37	Mechanistic Investigation of the Staudinger Ligation. Journal of the American Chemical Society, 2005, 127, 2686-2695.	6.6	323
38	Imaging the glycome. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12-17.	3.3	321
39	Conjugation of DNA to Silanized Colloidal Semiconductor Nanocrystalline Quantum Dots. Chemistry of Materials, 2002, 14, 2113-2119.	3.2	312
40	Metabolic cross-talk allows labeling of O-linked Î²- N -acetylglucosamine-modified proteins via the N -acetylgalactosamine salvage pathway. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3141-3146.	3.3	301
41	Interfacing Carbon Nanotubes with Living Cells. Journal of the American Chemical Society, 2006, 128, 6292-6293.	6.6	290
42	CD22 blockade restores homeostatic microglial phagocytosis in ageing brains. Nature, 2019, 568, 187-192.	13.7	283
43	The chemistry and biology of mucin-type O-linked glycosylation. Bioorganic and Medicinal Chemistry, 2005, 13, 5021-5034.	1.4	272
44	Investigating Cellular Metabolism of Synthetic Azidosugars with the Staudinger Ligation. Journal of the American Chemical Society, 2002, 124, 14893-14902.	6.6	270
45	Cholesterol Catabolism by Mycobacterium tuberculosis Requires Transcriptional and Metabolic Adaptations. Chemistry and Biology, 2012, 19, 218-227.	6.2	270
46	Programmed assembly of 3-dimensional microtissues with defined cellular connectivity. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4606-4610.	3.3	269
47	Metabolic labeling of glycans with azido sugars and subsequent glycan-profiling and visualization via Staudinger ligation. Nature Protocols, 2007, 2, 2930-2944.	5.5	261
48	Strategy for Dual-Analyte Luciferin Imaging: In Vivo Bioluminescence Detection of Hydrogen Peroxide and Caspase Activity in a Murine Model of Acute Inflammation. Journal of the American Chemical Society, 2013, 135, 1783-1795.	6.6	261
49	Small RNAs are modified with N-glycans and displayed on the surface of living cells. Cell, 2021, 184, 3109-3124.e22.	13.5	260
50	Metabolic oligosaccharide engineering as a tool for glycobiology. Current Opinion in Chemical Biology, 2003, 7, 616-625.	2.8	252
51	A New Approach to Mineralization of Biocompatible Hydrogel Scaffolds:Â An Efficient Process toward 3-Dimensional Bonelike Composites. Journal of the American Chemical Society, 2003, 125, 1236-1243.	6.6	245
52	Physiological bloodâ€“brain transport is impaired with age by a shift in transcytosis. Nature, 2020, 583, 425-430.	13.7	243
53	A Hydrophilic Azacyclooctyne for Cu-Free Click Chemistry. Organic Letters, 2008, 10, 3097-3099.	2.4	241
54	Isotope-targeted glycoproteomics (IsoTaG): a mass-independent platform for intact N- and O-glycopeptide discovery and analysis. Nature Methods, 2015, 12, 561-567.	9.0	238

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55	MmpL8 is required for sulfolipid-1 biosynthesis and Mycobacterium tuberculosis virulence. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6121-6126.	3.3	237
56	Reactivity of Biarylazacyclooctynones in Copper-Free Click Chemistry. Journal of the American Chemical Society, 2012, 134, 9199-9208.	6.6	229
57	A Decade of Bioorthogonal Chemistry. Accounts of Chemical Research, 2011, 44, 651-653.	7.6	227
58	<scp>d</scp>-Amino Acid Chemical Reporters Reveal Peptidoglycan Dynamics of an Intracellular Pathogen. ACS Chemical Biology, 2013, 8, 500-505.	1.6	225
59	Site-specific chemical modification of recombinant proteins produced in mammalian cells by using the genetically encoded aldehyde tag. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3000-3005.	3.3	224
60	Tyrosine sulfation: a modulator of extracellular proteinâ€“protein interactions. Chemistry and Biology, 2000, 7, R57-R61.	6.2	219
61	Site-specific chemical protein conjugation using genetically encoded aldehyde tags. Nature Protocols, 2012, 7, 1052-1067.	5.5	218
62	Chemical Glycoproteomics. Chemical Reviews, 2016, 116, 14277-14306.	23.0	218
63	Integrated microfluidic bioprocessor for single-cell gene expression analysis. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20173-20178.	3.3	216
64	Progress and challenges for the bottom-up synthesis of carbon nanotubes with discrete chirality. Chemical Physics Letters, 2010, 494, 1-7.	1.2	213
65	The clinical impact of glycobiology: targeting selectins, Siglecs and mammalian glycans. Nature Reviews Drug Discovery, 2021, 20, 217-243.	21.5	213
66	LYTACs that engage the asialoglycoprotein receptor for targeted protein degradation. Nature Chemical Biology, 2021, 17, 937-946.	3.9	211
67	Mineralization of Synthetic Polymer Scaffolds:Â A Bottom-Up Approach for the Development of Artificial Bone. Journal of the American Chemical Society, 2005, 127, 3366-3372.	6.6	203
68	Probing mucin-type O-linked glycosylation in living animals. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4819-4824.	3.3	198
69	Chemical Technologies for Probing Glycans. Cell, 2006, 126, 851-854.	13.5	196
70	Synthetic glycopeptides and glycoproteins as tools for biology. Chemical Society Reviews, 2005, 34, 58.	18.7	195
71	Metabolic Labeling of Sialic Acids in Living Animals with Alkynyl Sugars. Angewandte Chemie - International Edition, 2009, 48, 4030-4033.	7.2	195
72	Design strategies for bioorthogonal smart probes. Organic and Biomolecular Chemistry, 2014, 12, 9307-9320.	1.5	195

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73	Glycotherapy: New Advances Inspire a Reemergence of Glycans in Medicine. Chemistry and Biology, 2014, 21, 16-37.	6.2	194
74	A Fluorogenic Dye Activated by the Staudinger Ligation. Journal of the American Chemical Society, 2003, 125, 4708-4709.	6.6	192
75	Targeted glycan degradation potentiates the anticancer immune response in vivo. Nature Chemical Biology, 2020, 16, 1376-1384.	3.9	192
76	Bringing chemistry to life. Nature Methods, 2011, 8, 638-642.	9.0	189
77	Physical Principles of Membrane Shape Regulation by the Glycocalyx. Cell, 2019, 177, 1757-1770.e21.	13.5	187
78	The mucin-selective protease StcE enables molecular and functional analysis of human cancer-associated mucins. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7278-7287.	3.3	186
79	Lipidomics reveals control of Mycobacterium tuberculosis virulence lipids via metabolic coupling. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5133-5138.	3.3	185
80	Noncovalent Cell Surface Engineering: Incorporation of Bioactive Synthetic Glycopolymers into Cellular Membranes. Journal of the American Chemical Society, 2008, 130, 5947-5953.	6.6	185
81	A Pictet-Spengler ligation for protein chemical modification. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 46-51.	3.3	183
82	Imaging Cell Surface Glycans with Bioorthogonal Chemical Reporters. Journal of the American Chemical Society, 2007, 129, 8400-8401.	6.6	182
83	Metabolic Delivery of Ketone Groups to Sialic Acid Residues. Journal of Biological Chemistry, 1998, 273, 31168-31179.	1.6	180
84	Synthetic Riboswitches That Induce Gene Expression in Diverse Bacterial Species. Applied and Environmental Microbiology, 2010, 76, 7881-7884.	1.4	180
85	Imaging bacterial peptidoglycan with near-infrared fluorogenic azide probes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5456-5461.	3.3	178
86	Chemoselective Approaches to Glycoprotein Assembly. Accounts of Chemical Research, 2001, 34, 727-736.	7.6	173
87	Transmembrane Pickets Connect Cyto- and Pericellular Skeletons Forming Barriers to Receptor Engagement. Cell, 2018, 172, 305-317.e10.	13.5	170
88	Discovery of aminoacyl-tRNA synthetase activity through cell-surface display of noncanonical amino acids. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10180-10185.	3.3	167
89	Programmable Cell Adhesion Encoded by DNA Hybridization. Angewandte Chemie - International Edition, 2006, 45, 896-901.	7.2	165
90	Integrins Form an Expanding Diffusional Barrier that Coordinates Phagocytosis. Cell, 2016, 164, 128-140.	13.5	163

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91	Symbol nomenclature for glycan representation. Proteomics, 2009, 9, 5398-5399.	1.3	162
92	Self-catalyzed growth of S layers via an amorphous-to-crystalline transition limited by folding kinetics. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16536-16541.	3.3	160
93	Subpolar addition of new cell wall is directed by DivIVA in mycobacteria. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3243-51.	3.3	159
94	Optimal Dissociation Methods Differ for N- and O-Glycopeptides. Journal of Proteome Research, 2020, 19, 3286-3301.	1.8	153
95	Homogeneous Glycopeptides and Glycoproteins for Biological Investigation. Annual Review of Biochemistry, 2002, 71, 593-634.	5.0	152
96	A Chemical Reporter Strategy to Probe Glycoprotein Fucosylation. Journal of the American Chemical Society, 2006, 128, 12078-12079.	6.6	152
97	Probing the Mycobacterial Trehalome with Bioorthogonal Chemistry. Journal of the American Chemical Society, 2012, 134, 16123-16126.	6.6	151
98	Exploiting Differences in Sialoside Expression for Selective Targeting of MRI Contrast Reagents. Journal of the American Chemical Society, 1999, 121, 4278-4279.	6.6	150
99	Chemical Approaches To Perturb, Profile, and Perceive Glycans. Accounts of Chemical Research, 2009, 42, 788-797.	7.6	147
100	Visualizing enveloping layer glycans during zebrafish early embryogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10360-10365.	3.3	146
101	Inhibition of NGLY1 Inactivates the Transcription Factor Nrf1 and Potentiates Proteasome Inhibitor Cytotoxicity. ACS Central Science, 2017, 3, 1143-1155.	5.3	146
102	Carbohydrate sulfotransferases: mediators of extracellular communication. Chemistry and Biology, 1999, 6, R9-R22.	6.2	145
103	Synthesis of Glycopolymers for Microarray Applications via Ligation of Reducing Sugars to a Poly(acryloyl hydrazide) Scaffold. Journal of the American Chemical Society, 2010, 132, 9963-9965.	6.6	143
104	Discovery and functional interrogation of SARS-CoV-2 RNA-host protein interactions. Cell, 2021, 184, 2394-2411.e16.	13.5	141
105	Density Variant Glycan Microarray for Evaluating Cross-Linking of Mucin-like Glycoconjugates by Lectins. Journal of the American Chemical Society, 2012, 134, 15732-15742.	6.6	140
106	Synthesis of Heterobifunctional Protein Fusions Using Copperâ€Free Click Chemistry and the Aldehyde Tag. Angewandte Chemie - International Edition, 2012, 51, 4161-4165.	7.2	140
107	CalFluors: A Universal Motif for Fluorogenic Azide Probes across the Visible Spectrum. Journal of the American Chemical Society, 2015, 137, 7145-7151.	6.6	140
108	Formylglycine, a Post-Translationally Generated Residue with Unique Catalytic Capabilities and Biotechnology Applications. ACS Chemical Biology, 2015, 10, 72-84.	1.6	138

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109	Mapping and Quantification of Over 2000 O-linked Glycopeptides in Activated Human T Cells with Isotope-Targeted Glycoproteomics (Isotag). Molecular and Cellular Proteomics, 2018, 17, 764-775.	2.5	138
110	New Directions in the Synthesis of Glycopeptide Mimetics. Chemistry - A European Journal, 1999, 5, 1384-1390.	1.7	137
111	In Vivo Imaging of Caenorhabditis elegans Glycans. ACS Chemical Biology, 2009, 4, 1068-1072.	1.6	136
112	Direct Cell Surface Modification with DNA for the Capture of Primary Cells and the Investigation of Myotube Formation on Defined Patterns. Langmuir, 2009, 25, 6985-6991.	1.6	135
113	Liveâ€Cell Imaging of Cellular Proteins by a Strainâ€Promoted Azideâ€“Alkyne Cycloaddition. ChemBioChem, 2010, 11, 2092-2095.	1.3	135
114	Increasing intracellular trehalose is sufficient to confer desiccation tolerance to Saccharomyces cerevisiae. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6122-6127.	3.3	135
115	Leukocyte adhesion: Two selectins converge on sulphate. Current Biology, 1996, 6, 261-264.	1.8	134
116	Fluorogenic Azidofluoresceins for Biological Imaging. Journal of the American Chemical Society, 2012, 134, 17428-17431.	6.6	129
117	Metabolic labeling enables selective photocrosslinking of O-GlcNAc-modified proteins to their binding partners. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4834-4839.	3.3	127
118	Control of Cell Adhesion and Growth with Micropatterned Supported Lipid Membranes. Langmuir, 2001, 17, 5129-5133.	1.6	126
119	Probing Glycosyltransferase Activities with the Staudinger Ligation. Journal of the American Chemical Society, 2004, 126, 6-7.	6.6	124
120	Expanding the Diversity of Unnatural Cell-Surface Sialic Acids. ChemBioChem, 2004, 5, 371-374.	1.3	123
121	Illumination of growth, division and secretion by metabolic labeling of the bacterial cell surface. FEMS Microbiology Reviews, 2015, 39, 184-202.	3.9	123
122	A Pragmatic Guide to Enrichment Strategies for Mass Spectrometryâ€“Based Glycoproteomics. Molecular and Cellular Proteomics, 2021, 20, 100029.	2.5	121
123	Ketone Isosteres of 2-N-Acetamidosugars as Substrates for Metabolic Cell Surface Engineering. Journal of the American Chemical Society, 2001, 123, 1242-1243.	6.6	120
124	Metabolic Labeling of Glycans with Azido Sugars for Visualization and Glycoproteomics. Methods in Enzymology, 2006, 415, 230-250.	0.4	120
125	Systemic Fluorescence Imaging of Zebrafish Glycans with Bioorthogonal Chemistry. Angewandte Chemie - International Edition, 2015, 54, 11504-11510.	7.2	120
126	Rapid detection of Mycobacterium tuberculosis in sputum with a solvatochromic trehalose probe. Science Translational Medicine, 2018, 10, .	5.8	119

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127	Fluorophore Targeting to Cellular Proteins via Enzyme-Mediated Azide Ligation and Strain-Promoted Cycloaddition. Journal of the American Chemical Society, 2012, 134, 3720-3728.	6.6	114
128	Substrate Specificity of the Sialic Acid Biosynthetic Pathwayâ€. Biochemistry, 2001, 40, 12864-12874.	1.2	113
129	The Ecstasy and Agony of Assay Interference Compounds. Journal of Medicinal Chemistry, 2017, 60, 2165-2168.	2.9	113
130	Chemical approaches to glycobiology and emerging carbohydrate-based therapeutic agents. Current Opinion in Chemical Biology, 1998, 2, 49-61.	2.8	110
131	Modular Assembly of Glycoproteins: Towards the Synthesis of GlyCAM-1 by Using Expressed Protein Ligation. Angewandte Chemie - International Edition, 2004, 43, 1355-1359.	7.2	110
132	Sulfotransferases and Sulfatases in Mycobacteria. Chemistry and Biology, 2002, 9, 767-776.	6.2	109
133	A Strategy for the Chemoselective Synthesis ofO-Linked Glycopeptides with Native Sugarâ^'Peptide Linkages. Journal of the American Chemical Society, 1997, 119, 9905-9906.	6.6	108
134	Biomimetic Engineering of Carbon Nanotubes by Using Cell Surface Mucin Mimics. Angewandte Chemie - International Edition, 2004, 43, 6111-6116.	7.2	107
135	Difluorobenzocyclooctyne: Synthesis, Reactivity, and Stabilization by Î²-Cyclodextrin. Journal of the American Chemical Society, 2010, 132, 11799-11805.	6.6	106
136	Aminooxy-, Hydrazide-, and Thiosemicarbazide-Functionalized Saccharides:Â Versatile Reagents for Glycoconjugate Synthesis. Journal of Organic Chemistry, 1998, 63, 7134-7135.	1.7	105
137	A Small-Molecule Modulator of Poly-alpha 2,8-Sialic Acid Expression on Cultured Neurons and Tumor Cells. Science, 2001, 294, 380-381.	6.0	105
138	Anti-GD2 synergizes with CD47 blockade to mediate tumor eradication. Nature Medicine, 2022, 28, 333-344.	15.2	105
139	Chemical and Biological Strategies for Engineering Cell Surface Glycosylation. Annual Review of Cell and Developmental Biology, 2001, 17, 1-23.	4.0	104
140	Functional Self-Assembling Bolaamphiphilic Polydiacetylenes as Colorimetric Sensor Scaffolds. Journal of the American Chemical Society, 2004, 126, 8459-8465.	6.6	104
141	A tension-mediated glycocalyxâ€“integrin feedback loop promotes mesenchymal-like glioblastoma. Nature Cell Biology, 2018, 20, 1203-1214.	4.6	103
142	5'-Adenosinephosphosulphate reductase (CysH) protects Mycobacterium tuberculosis against free radicals during chronic infection phase in mice. Molecular Microbiology, 2006, 59, 1744-1753.	1.2	102
143	Rapid and selective detection of fatty acylated proteins using ï‰-alkynyl-fatty acids and click chemistry. Journal of Lipid Research, 2010, 51, 1566-1580.	2.0	101
144	Trehalose Is Required for Growth of Mycobacterium smegmatis. Journal of Biological Chemistry, 2004, 279, 28835-28843.	1.6	100

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145	Identification, function and structure of the mycobacterial sulfotransferase that initiates sulfolipid-1 biosynthesis. Nature Structural and Molecular Biology, 2004, 11, 721-729.	3.6	100
146	DNA origami protection and molecular interfacing through engineered sequence-defined peptoids. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6339-6348.	3.3	99
147	Carbon-linked galactosphingolipid analogs bind specifically to HIV-1 gp120. Journal of the American Chemical Society, 1992, 114, 10639-10641.	6.6	98
148	O-Pair Search with MetaMorpheus for O-glycopeptide characterization. Nature Methods, 2020, 17, 1133-1138.	9.0	98
149	Chemical Synthesis of Lymphotactin: A Glycosylated Chemokine with a C-Terminal Mucin-Like Domain. Chemistry - A European Journal, 2001, 7, 1129-1132.	1.7	97
150	Function and Structure of a Prokaryotic Formylglycine-generating Enzyme. Journal of Biological Chemistry, 2008, 283, 20117-20125.	1.6	97
151	Membrane proteomics of phagosomes suggests a connection to autophagy. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16952-16957.	3.3	96
152	Selective Enrichment of Azide-Containing Peptides from Complex Mixtures. Journal of Proteome Research, 2009, 8, 3702-3711.	1.8	96
153	The roles of enzyme localisation and complex formation in glycan assembly within the Golgi apparatus. Current Opinion in Cell Biology, 2004, 16, 356-363.	2.6	94
154	Metabolic Labeling of Fucosylated Glycans in Developing Zebrafish. ACS Chemical Biology, 2011, 6, 547-552.	1.6	94
155	Compositional profiling of heparin/heparan sulfate using mass spectrometry: assay for specificity of a novel extracellular human endosulfatase. Glycobiology, 2005, 15, 818-826.	1.3	93
156	Visualization of mycobacterial membrane dynamics in live cells. Journal of the American Chemical Society, 2017, 139, 3488-3495.	6.6	93
157	Deconvoluting the Functions of Polypeptide N-Î±-Acetylgalactosaminyltransferase Family Members by Glycopeptide Substrate Profiling. Chemistry and Biology, 2004, 11, 1009-1016.	6.2	92
158	Synthesis of a Fluorogenic Cyclooctyne Activated by Cu-Free Click Chemistry. Organic Letters, 2011, 13, 5937-5939.	2.4	92
159	PapA1 and PapA2 are acyltransferases essential for the biosynthesis of the Mycobacterium tuberculosis virulence factor Sulfolipid-1. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11221-11226.	3.3	91
160	Constructing Azide-Labeled Cell Surfaces Using Polysaccharide Biosynthetic Pathways. Methods in Enzymology, 2003, 362, 249-272.	0.4	90
161	Imaging the Glycosylation State of Cell Surface Glycoproteins by Twoâ€Photon Fluorescence Lifetime Imaging Microscopy. Angewandte Chemie - International Edition, 2013, 52, 14045-14049.	7.2	89
162	Real-Time Bioluminescence Imaging of Glycans on Live Cells. Journal of the American Chemical Society, 2010, 132, 8563-8565.	6.6	88

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163	GlcNAc 2-Epimerase Can Serve a Catabolic Role in Sialic Acid Metabolism. Journal of Biological Chemistry, 2003, 278, 8035-8042.	1.6	86
164	A chemical approach to unraveling the biological function of the glycosylphosphatidylinositol anchor. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20332-20337.	3.3	86
165	New Aldehyde Tag Sequences Identified by Screening Formylglycine Generating Enzymes in Vitro and in Vivo. Journal of the American Chemical Society, 2008, 130, 12240-12241.	6.6	86
166	The Regulation of Sulfur Metabolism in Mycobacterium tuberculosis. PLoS Pathogens, 2011, 7, e1002036.	2.1	86
167	Chemically tunable mucin chimeras assembled on living cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12574-12579.	3.3	86
168	5â€²-Adenosinephosphosulfate Lies at a Metabolic Branch Point in Mycobacteria. Journal of Biological Chemistry, 2002, 277, 32606-32615.	1.6	83
169	A Strategy for the Selective Imaging of Glycans Using Caged Metabolic Precursors. Journal of the American Chemical Society, 2010, 132, 9516-9518.	6.6	83
170	Sulfate Metabolism in Mycobacteria. ChemBioChem, 2006, 7, 1516-1524.	1.3	82
171	Protein Glycoengineering Enabled by the Versatile Synthesis of Aminooxy Glycans and the Genetically Encoded Aldehyde Tag. Journal of the American Chemical Society, 2011, 133, 16127-16135.	6.6	82
172	Development of IsoTaG, a Chemical Glycoproteomics Technique for Profiling Intact N- and O-Glycopeptides from Whole Cell Proteomes. Journal of Proteome Research, 2017, 16, 1706-1718.	1.8	82
173	Synthesis of carbon-linked glycopeptides as stable glycopeptide models. Journal of Organic Chemistry, 1992, 57, 6092-6094.	1.7	81
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