

David Crich

List of Publications by Year in descending order

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385
papers

19,603
citations

13827

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all docs

417
docs citations

417
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Unusual C–C bond cleavage of an α -trifloxy Sialic acid hemiacetal under Lattrell-Dax conditions. <i>Carbohydrate Research</i> , 2022, 511, 108494.	1.1	0
2	Exploring Noncovalent Protease Inhibitors for the Treatment of Severe Acute Respiratory Syndrome and Severe Acute Respiratory Syndrome-Like Coronaviruses. <i>ACS Infectious Diseases</i> , 2022, 8, 596-611.	1.8	6
3	Synthesis of 10-Aza-9-oxakalkitoxin by N=O Bond Formation. <i>Organic Letters</i> , 2022, 24, 1833-1836.	2.4	5
4	Structure–Activity Relationships for 5- α Modifications of 4,5-Aminoglycoside Antibiotics. <i>ChemMedChem</i> , 2022, 17, .	1.6	7
5	Side Chain Conformation and Its Influence on Glycosylation Selectivity in Hexo- and Higher Carbon Furanosides. <i>Journal of Organic Chemistry</i> , 2022, 87, 316-339.	1.7	7
6	The <i>N,N,O</i> -Trisubstituted Hydroxylamine Isostere and Its Influence on Lipophilicity and Related Parameters. <i>ACS Medicinal Chemistry Letters</i> , 2022, 13, 799-806.	1.3	4
7	Syntheses of Legionaminic Acid, Pseudaminic Acid, Acetaminic Acid, 8- <i>epi</i> -Acetaminic Acid, and 8- <i>epi</i> -Legionaminic Acid Glycosyl Donors from <i>N</i> -Acetylneuraminic Acid by Side Chain Exchange. <i>Organic Letters</i> , 2022, 24, 2998-3002.	2.4	5
8	Influence of 3-Thio Substituents on Benzylidene-Directed Mannosylation. Isolation of a Bridged Pyridinium Ion and Effects of 3- <i>O</i> -Picoyl and 3- <i>S</i> -Picoyl Esters. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	1.2	5
9	An Advanced Apralog with Increased <i>in vitro</i> and <i>in vivo</i> Activity toward Gram-negative Pathogens and Reduced <i>ex vivo</i> Cochleotoxicity. <i>ChemMedChem</i> , 2021, 16, 335-339.	1.6	20
10	En Route to the Transformation of Glycoscience: A Chemist's Perspective on Internal and External Crossroads in Glycochemistry. <i>Journal of the American Chemical Society</i> , 2021, 143, 17-34.	6.6	82
11	Influence of ring size in conformationally restricted ring I analogs of paromomycin on antiribosomal and antibacterial activity. <i>RSC Medicinal Chemistry</i> , 2021, 12, 1585-1591.	1.7	3
12	Polyphenols as alternative treatments of COVID-19. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 5371-5380.	1.9	8
13	Influence of substitution at the 5-Position on the side chain conformation of glucopyranosides. <i>Carbohydrate Research</i> , 2021, 500, 108254.	1.1	3
14	Side Chain Conformation Restriction in the Catalysis of Glycosidic Bond Formation by Leloir Glycosyltransferases, Glycoside Phosphorylases, and Transglycosidases. <i>ACS Catalysis</i> , 2021, 11, 5069-5078.	5.5	9
15	Synthesis and Antibacterial Activity of Propylamycin Derivatives Functionalized at the 5- and Other Positions with a View to Overcoming Resistance Due to Aminoglycoside Modifying Enzymes. <i>ACS Infectious Diseases</i> , 2021, 7, 2413-2424.	1.8	11
16	Synthesis of <i>O</i> - <i>tert</i> -Butyl- <i>N,N</i> -disubstituted Hydroxylamines by N=O Bond Formation. <i>Organic Letters</i> , 2021, 23, 6396-6400.	2.4	8
17	GH47 and Other Glycoside Hydrolases Catalyze Glycosidic Bond Cleavage with the Assistance of Substrate Super-Arming at the Transition State. <i>ACS Catalysis</i> , 2021, 11, 10308-10315.	5.5	1
18	Influence of Configuration at the 4- and 6-Positions on the Conformation and Anomeric Reactivity and Selectivity of 7-Deoxyheptopyranosyl Donors: Discovery of a Highly Equatorially Selective glycerol-glycero-d-glucopyranosyl Donor. <i>Journal of Organic Chemistry</i> , 2021, 86, 12199-12225.	1.7	11

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19	Guidelines for <i>O</i> -Glycoside Formation from First Principles. ACS Central Science, 2021, 7, 1454-1462.	5.3	41
20	Direct Experimental Characterization of a Bridged Bicyclic Glycosyl Dioxacarbenium Ion by ¹ H and ¹³ C NMR Spectroscopy: Importance of Conformation on Participation by Distal Esters. Angewandte Chemie - International Edition, 2021, 60, 25397-25403.	7.2	15
21	Antibacterial activity of apramycin at acidic pH warrants wide therapeutic window in the treatment of complicated urinary tract infections and acute pyelonephritis. EBioMedicine, 2021, 73, 103652.	2.7	15
22	Polyphenols as Potential Inhibitors of SARS-CoV-2 RNA Dependent RNA Polymerase (RdRp). Molecules, 2021, 26, 7438.	1.7	10
23	Synthesis of Bradyrhizose from <i>D</i> -Glucose. Organic Letters, 2020, 22, 523-527.	2.4	9
24	Aminoglycosides: Time for the Resurrection of a Neglected Class of Antibacterials?. ACS Infectious Diseases, 2020, 6, 168-172.	1.8	47
25	Apralogs: Apramycin 5- <i>O</i> -Glycosides and Ethers with Improved Antibacterial Activity and Ribosomal Selectivity and Reduced Susceptibility to the Aminoacyltransferase (3)-IV Resistance Determinant. Journal of the American Chemical Society, 2020, 142, 530-544.	6.6	30
26	Influence of protecting groups on <i>O</i> - and <i>C</i> -glycosylation with neuraminyl and ulosonyl dibutylphosphates. Carbohydrate Research, 2020, 496, 108100.	1.1	5
27	Glycoside Hydrolases Restrict the Side Chain Conformation of Their Substrates To Gain Additional Transition State Stabilization. Journal of the American Chemical Society, 2020, 142, 16965-16973.	6.6	17
28	Synthesis of 3-Deoxy- <i>D</i> -manno- <i>o</i> -oct-2-ulosonic Acid (KDO) and Pseudaminic Acid <i>C</i> -Glycosides. Journal of Organic Chemistry, 2020, 85, 16035-16042.	1.7	11
29	Predictive Analysis of the Side Chain Conformation of the Higher Carbon Sugars: Application to the Preorganization of the Aminoglycoside Ring 1 Side Chain for Binding to the Bacterial Ribosomal Decoding A Site. Journal of Organic Chemistry, 2020, 85, 16043-16059.	1.7	13
30	Diversity-Oriented Synthesis of <i>N,N,O</i> -Trisubstituted Hydroxylamines from Alcohols and Amines by <i>N</i> – <i>O</i> Bond Formation. Journal of the American Chemical Society, 2020, 142, 14820-14825.	6.6	20
31	Synthesis, Cytotoxicity, and Genotoxicity of 10-Aza-9-oxakalkitoxin, an <i>N,N,O</i> -Trisubstituted Hydroxylamine Analog, or Hydroxalog, of a Marine Natural Product. Journal of the American Chemical Society, 2020, 142, 9147-9151.	6.6	9
32	Characterization and Noncovalent Inhibition of the Deubiquitinase and deISGylase Activity of SARS-CoV-2 Papain-Like Protease. ACS Infectious Diseases, 2020, 6, 2099-2109.	1.8	239
33	Mechanisms of Stereodirecting Participation and Ester Migration from Near and Far in Glycosylation and Related Reactions. Chemical Reviews, 2020, 120, 7104-7151.	23.0	124
34	Use of hydroxylamines, hydroxamic acids, oximes and amines as nucleophiles in the Zbiral oxidative deamination of <i>N</i> -acetyl neuraminic acid. Isolation and characterization of novel mono- and disubstitution products. Carbohydrate Research, 2020, 490, 107921.	1.1	5
35	Synthesis of Gentamicin Minor Components: Gentamicin B1 and Gentamicin X2. Organic Letters, 2020, 22, 3850-3854.	2.4	6
36	Stereospecific synthesis of methyl 2-amino-2,4-dideoxy-6 <i>S</i> -deuterio- β - <i>D</i> -xylo-hexopyranoside and methyl 2-amino-2,4-dideoxy-6 <i>S</i> -deuterio-4-propyl- β - <i>D</i> -glucopyranoside: Side chain conformation of the novel aminoglycoside antibiotic propylamycin. Carbohydrate Research, 2020, 491, 107984.	1.1	8

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37	Synthesis of a Pseudodisaccharide Suitable for Synthesis of Ring I Modified 4,5-2-Deoxystreptamine Type Aminoglycoside Antibiotics. <i>Journal of Organic Chemistry</i> , 2020, 85, 7583-7587.	1.7	11
38	Stereocontrolled Synthesis of the Equatorial Glycosides of 3-Deoxy- α -D-manno-oct-2-ulosonic Acid: Role of Side Chain Conformation. <i>Journal of the American Chemical Society</i> , 2020, 142, 7760-7764.	6.6	25
39	Oxidative deamination of amino sugars: recent advances. <i>Carbohydrate Chemistry</i> , 2020, , 1-30.	0.3	1
40	Dissociation between hypothermia and neurotoxicity caused by mephedrone and methcathinone in TPH2 knockout mice. <i>Psychopharmacology</i> , 2019, 236, 1097-1106.	1.5	5
41	Use of Phenols as Nucleophiles in the Zbiral Oxidative Deamination of <i>N</i> -Acetyl Neuraminic Acid: Isolation and Characterization of Tricyclic 3-Keto-2-deoxy-nonulosonic Acid (KDN) Derivatives via an Intermediate Vinyl Diazonium Ion. <i>Journal of Organic Chemistry</i> , 2019, 84, 14688-14700.	1.7	10
42	Use of a fluorescence assay to determine relative affinities of semisynthetic aminoglycosides to small RNAs representing bacterial and mitochondrial A sites. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 115121.	1.4	4
43	Modification at the 2'-Position of the 4,5-Series of 2-Deoxystreptamine Aminoglycoside Antibiotics To Resist Aminoglycoside Modifying Enzymes and Increase Ribosomal Target Selectivity. <i>ACS Infectious Diseases</i> , 2019, 5, 1718-1730.	1.8	23
44	<i>In vitro</i> activity of apramycin against multidrug-, carbapenem- and aminoglycoside-resistant Enterobacteriaceae and <i>Acinetobacter baumannii</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2019, 74, 944-952.	1.3	76
45	Synthesis, ribosomal selectivity, and antibacterial activity of netilmicin 4'-derivatives. <i>MedChemComm</i> , 2019, 10, 946-950.	3.5	1
46	Synthesis of saccharocin from apramycin and evaluation of its ribosomal selectivity. <i>MedChemComm</i> , 2019, 10, 554-558.	3.5	6
47	Synthesis and Evaluation of Oligomeric Thioether-Linked Carbacyclic β -(1 \rightarrow 3)-Glucan Mimetics. <i>Journal of Organic Chemistry</i> , 2019, 84, 5554-5563.	1.7	11
48	Design, Multigram Synthesis, and in Vitro and in Vivo Evaluation of Propylamycin: A Semisynthetic 4,5-Deoxystreptamine Class Aminoglycoside for the Treatment of Drug-Resistant Enterobacteriaceae and Other Gram-Negative Pathogens. <i>Journal of the American Chemical Society</i> , 2019, 141, 5051-5061.	6.6	46
49	Allylic strain as a stereocontrol element in the hydrogenation of 3-hydroxymethyl-cyclohex-3-en-1,2,5-triol derivatives. Synthesis of the carbasugar pseudo-2-deoxy- β -D-glucopyranose. <i>Tetrahedron</i> , 2018, 74, 5183-5191.	1.0	2
50	Effects of the 1- <i>N</i> -(4-Amino-2- <i>S</i> -hydroxybutyryl) and 6'- <i>N</i> -(2-Hydroxyethyl) Substituents on Ribosomal Selectivity, Cochleotoxicity, and Antibacterial Activity in the Sisomicin Class of Aminoglycoside Antibiotics. <i>ACS Infectious Diseases</i> , 2018, 4, 1114-1120.	1.8	22
51	Assessing the role of dopamine in the differential neurotoxicity patterns of methamphetamine, mephedrone, methcathinone and 4-methylmethamphetamine. <i>Neuropharmacology</i> , 2018, 134, 46-56.	2.0	23
52	Synthesis of Conformationally-Locked <i>cis</i> - and <i>trans</i> -Bicyclo[4.4.0] Mono-, Di-, and Trioxadecane Modifications of Galacto- and Glucopyranose; Experimental Limiting $^3J_{\text{H,H}}$ Coupling Constants for the Estimation of Carbohydrate Side Chain Populations and Beyond. <i>Journal of Organic Chemistry</i> , 2018, 83, 881-897.	1.7	20
53	Synthesis and Evaluation of 1,5-Dithia- α -laminaribiose, Triose, and Tetraose as Truncated β -(1 \rightarrow 3)-Glucan Mimetics. <i>Journal of Organic Chemistry</i> , 2018, 83, 14894-14904.	1.7	15
54	Synthesis and Stereocontrolled Equatorially Selective Glycosylation Reactions of a Pseudaminic Acid Donor: Importance of the Side-Chain Conformation and Regioselective Reduction of Azide Protecting Groups. <i>Journal of the American Chemical Society</i> , 2018, 140, 15008-15015.	6.6	41

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55	The Experimental Evidence in Support of Glycosylation Mechanisms at the S _N 1/S _N 2 Interface. <i>Chemical Reviews</i> , 2018, 118, 8242-8284.	23.0	246
56	Interplay of Protecting Groups and Side Chain Conformation in Glycopyranosides. Modulation of the Influence of Remote Substituents on Glycosylation?. <i>Journal of Organic Chemistry</i> , 2018, 83, 10334-10351.	1.7	22
57	Dissecting the Influence of Two Structural Substituents on the Differential Neurotoxic Effects of Acute Methamphetamine and Mephedrone Treatment on Dopamine Nerve Endings with the Use of 4-Methylmethamphetamine and Methcathinone. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2017, 360, 417-423.	1.3	18
58	Blue Light Photocatalytic Glycosylation without Electrophilic Additives. <i>Organic Letters</i> , 2017, 19, 2402-2405.	2.4	27
59	Synthesis of Trialkylhydroxylamines by Stepwise Reduction of <i>O</i> -Acyl <i>N,N</i> -Disubstituted Hydroxylamines: Substituent Effects on the Reduction of <i>O</i> -(1-Acyloxyalkyl)hydroxylamines and on the Conformational Dynamics of <i>N</i> -Alkoxy piperidines. <i>Journal of Organic Chemistry</i> , 2017, 82, 5345-5353.	1.7	9
60	Hydrogenolytic cleavage of naphthylmethyl ethers in the presence of sulfides. <i>Carbohydrate Research</i> , 2017, 449, 11-16.	1.1	7
61	Stereoselective Synthesis of the Equatorial Glycosides of Legionaminic Acid. <i>Journal of Organic Chemistry</i> , 2017, 82, 6142-6152.	1.7	18
62	Stereospecific synthesis of methyl 2-amino-2-deoxy-(6S)-deuterio-1,1'-d-glucopyranoside and methyl 2,6-diamino-2,6-dideoxy-(6R)-deuterio-1,1'-d-glucopyranoside: Side chain conformations of the 2-amino-2-deoxy and 2,6-diamino-2,6-dideoxyglucopyranosides. <i>Carbohydrate Research</i> , 2017, 448, 10-17.	1.1	11
63	N6 ⁺ , N6 ⁺ , and O4 ⁺ Modifications to Neomycin Affect Ribosomal Selectivity without Compromising Antibacterial Activity. <i>ACS Infectious Diseases</i> , 2017, 3, 368-377.	1.8	14
64	Trifluoromethanesulfonate Anion as Nucleophile in Organic Chemistry. <i>Journal of Organic Chemistry</i> , 2017, 82, 9263-9269.	1.7	54
65	Structure-Based Design and Synthesis of Apramycin/Paromomycin Analogues: Importance of the Configuration at the 6 ⁺ -Position and Differences between the 6 ⁺ -Amino and Hydroxy Series. <i>Journal of the American Chemical Society</i> , 2017, 139, 14611-14619.	6.6	31
66	Synthesis of <i>N,N,O</i> -Trisubstituted Hydroxylamines by Stepwise Reduction and Substitution of <i>O</i> -Acyl <i>N,N</i> -Disubstituted Hydroxylamines. <i>Organic Letters</i> , 2016, 18, 1820-1823.	2.4	17
67	Further studies on cation clock reactions in glycosylation: observation of a configuration specific intramolecular sulfenyl transfer and isolation and characterization of a tricyclic acetal. <i>Carbohydrate Research</i> , 2016, 427, 21-28.	1.1	10
68	Stereoselective Synthesis of 5- <i>epi</i> -1'-Sialosides Related to the Pseudaminic Acid Glycosides. Reassessment of the Stereoselectivity of the 5-Azido-5-deacetamidodialyl Thioglycosides and Use of Triflate as Nucleophile in the Zbiral Deamination of Sialic Acids. <i>Journal of Organic Chemistry</i> , 2016, 81, 10617-10630.	1.7	35
69	Synthesis and intramolecular glycosylation of sialyl mono-esters of <i>o</i> -xylylene glycol. The importance of donor configuration and nitrogen protecting groups on cyclization yield and selectivity; isolation and characterization of a <i>N</i> -sialyl acetamide indicative of participation by acetonitrile. <i>Carbohydrate Research</i> , 2016, 435, 113-120.	1.1	8
70	Determination of the Influence of Side Chain Conformation on Glycosylation Selectivity using Conformationally Restricted Donors. <i>Chemistry - A European Journal</i> , 2016, 22, 4535-4542.	1.7	30
71	Glycosyl cations out on parole. <i>Nature Chemistry</i> , 2016, 8, 99-100.	6.6	15
72	Oxidative Deamination of <i>N</i> -Acetyl Neuraminic Acid: Substituent Effects and Mechanism. <i>Journal of the American Chemical Society</i> , 2016, 138, 1084-1092.	6.6	27

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73	Alternative synthesis and antibacterial evaluation of 1,5-dideoxy-1,5-imino-l-rhamnitol. Carbohydrate Research, 2016, 419, 29-32.	1.1	8
74	Influence of 4â€²- <i>O</i> -Glycoside Constitution and Configuration on Ribosomal Selectivity of Paromomycin. Journal of the American Chemical Society, 2015, 137, 7706-7717.	6.6	24
75	Absence of Stereodirecting Participation by 2- <i>O</i> -Alkoxy carbonylmethyl Ethers in 4,6- <i>O</i> -Benzylidene-Directed Mannosylation. Journal of Organic Chemistry, 2015, 80, 12300-12310.	1.7	14
76	Anomericity of T-2 Toxin-glucoside: Masked Mycotoxin in Cereal Crops. Journal of Agricultural and Food Chemistry, 2015, 63, 731-738.	2.4	68
77	Fluorine-Decoupled Carbon Spectroscopy for the Determination of Configuration at Fully Substituted, Trifluoromethyl- and Perfluoroalkyl-Bearing Carbons: Comparison with ¹⁹ Fâ€” ¹ H Heteronuclear Overhauser Effect Spectroscopy. Journal of Organic Chemistry, 2015, 80, 1754-1763.	1.7	10
78	Selective Protection of Secondary Amines as the <i>N</i> -Phenyltriazenes. Application to Aminoglycoside Antibiotics. Organic Letters, 2015, 17, 4006-4009.	2.4	10
79	Cation Clock Reactions for the Determination of Relative Reaction Kinetics in Glycosylation Reactions: Applications to Gluco- and Mannopyranosyl Sulfoxide and Trichloroacetimidate Type Donors. Journal of the American Chemical Society, 2015, 137, 10336-10345.	6.6	57
80	Facile Synthesis of 3- <i>N</i> -Alkyl Pyrimidin-2,4-diones from <i>N</i> -Sulfonyloxy Maleimides and Amines. Organic Letters, 2015, 17, 4122-4124.	2.4	12
81	Synthesis and Antiribosomal Activities of 4â€²- <i>O</i> -, 6â€²- <i>O</i> -, 4â€³- <i>O</i> -, 4â€²,6â€²- <i>O</i> - and 4â€³,6â€³- <i>O</i> -Derivatives in the Kanamycin Series Indicate Differing Target Selectivity Patterns between the 4,5- and 4,6-Series of Disubstituted 2-Deoxystreptamine Aminoglycoside Antibiotics. ACS Infectious Diseases, 2015, 1, 479-486.	1.8	14
82	The Isothiocyanato Moiety: An Ideal Protecting Group for the Stereoselective Synthesis of Sialic Acid Glycosides and Subsequent Diversification. Angewandte Chemie - International Edition, 2015, 54, 1275-1278.	7.2	33
83	A propos of glycosyl cations and the mechanism of chemical glycosylation; the current state of the art. Carbohydrate Research, 2015, 403, 48-59.	1.1	126
84	Identification and Evaluation of Improved 4â€²- <i>O</i> -(Alkyl) 4,5-Disubstituted 2-Deoxystreptamines as Next-Generation Aminoglycoside Antibiotics. MBio, 2014, 5, e01827-14.	1.8	37
85	Chemistry of the Î²-Thiolactones: Substituent and Solvent Effects on Thermal Decomposition and Comparison with the Î²-Lactones.. Journal of Organic Chemistry, 2014, 79, 4068-4077.	1.7	12
86	Synthesis, antiribosomal and antibacterial activity of 4â€²- <i>O</i> -glycopyranosyl paromomycin aminoglycoside antibiotics. MedChemComm, 2014, 5, 1179-1187.	3.5	9
87	Biosynthesis of 4-aminoheptose 2-epimers, core structural components of the septacidins and spicamycins. Journal of Antibiotics, 2014, 67, 405-414.	1.0	12
88	Importance of the 6â€²-Hydroxy Group and Its Configuration for Apramycin Activity. ChemMedChem, 2014, 9, 2074-2083.	1.6	22
89	Synthesis and Evaluation of Di- and Trimeric Hydroxylamine-Based Î²-(1â†³)-Glucan Mimetics. Journal of the American Chemical Society, 2014, 136, 14852-14857.	6.6	30
90	Probing the Influence of Protecting Groups on the Anomeric Equilibrium in Sialic Acid Glycosides with the Persistent Radical Effect. Journal of the American Chemical Society, 2014, 136, 5472-5480.	6.6	32

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91	Alternative Synthesis of P-Chiral Phosphonite-Borane Complexes: Application to the Synthesis of Phostoneâ€“Phostone Dimers. <i>Journal of Organic Chemistry</i> , 2013, 78, 6858-6867.	1.7	17
92	Probing the Influence of a 4,6- <i>O</i> -Acetal on the Reactivity of Galactopyranosyl Donors: Verification of the Disarming Influence of the <i>trans</i> â€“ <i>gauche</i> Conformation of C5â€“C6 Bonds. <i>Journal of the American Chemical Society</i> , 2013, 135, 14249-14255.	6.6	73
93	Nâ€“O Bond as a Glycosidicâ€“Bond Surrogate: Synthetic Studies Toward Polyhydroxylated <i>N</i> -Alkoxy piperidines. <i>Chemistry - A European Journal</i> , 2013, 19, 2168-2179.	1.7	29
94	Exploration of the Oxazolidinthione Protecting System for the Synthesis of Sialic Acid Glycosides. <i>Journal of Carbohydrate Chemistry</i> , 2013, 32, 324-335.	0.4	11
95	Chemical Diversification of Sialic Acid Glycosides by Stereospecific, Chemoselective Deamination. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11339-11342.	7.2	16
96	The chemistry and biology of $\hat{1}^2$ -thiolactones. <i>Journal of Sulfur Chemistry</i> , 2013, 34, 104-141.	1.0	6
97	Synthesis and evaluation of 3-deoxy and 3-deoxy-3-fluoro derivatives of gluco- and manno-configured tetrahydropyridoimidazole glycosidase inhibitors. <i>Carbohydrate Research</i> , 2013, 377, 35-43.	1.1	14
98	Exploration of an imide capture/N,N-acyl shift sequence for asparagine native peptide bond formation. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 3479-3485.	1.4	17
99	Improved methods for the stereoselective synthesis of $\hat{1}$ mannoheptosyl donors and their glycosides: toward the synthesis of the trisaccharide repeating unit of the <i>Campylobacter jejuni</i> RM1221 capsular polysaccharide. <i>Tetrahedron</i> , 2013, 69, 5501-5510.	1.0	18
100	<i>Se</i> -(9-Fluorenylmethyl) Selenoesters; Preparation, Reactivity, and Use as Convenient Synthons for Selenoacids. <i>Organic Letters</i> , 2013, 15, 3758-3761.	2.4	10
101	Influence of Side Chain Conformation and Configuration on Glycosyl Donor Reactivity and Selectivity as Illustrated by Sialic Acid Donors Epimeric at the 7-Position. <i>Journal of the American Chemical Society</i> , 2013, 135, 18999-19007.	6.6	55
102	Synthesis of $\hat{1}^2$ -Hydroxy O-Alkyl Hydroxylamines from Epoxides Using a Convenient and Versatile Two-Step Procedure. <i>Synthesis</i> , 2012, 45, 65-74.	1.2	2
103	Comparison of the reactivity of $\hat{1}^2$ -thiolactones and $\hat{1}^2$ -lactones toward ring-opening by thiols and amines. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 6480-6483.	1.5	11
104	Synthesis and biological investigation of the $\hat{1}^2$ -thiolactone and $\hat{1}^2$ -lactam analogs of tetrahydrolipstatin. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 2629.	1.5	24
105	Stereoselective, Electrophilic $\hat{1}^2$ -C-Sialidation. <i>Organic Letters</i> , 2012, 14, 1342-1345.	2.4	29
106	2-(Selenocyanatomethyl)-2-propenolâ€“ A convenient synthon for ligation via the deselenative allylic rearrangement of allyl selenosulfides: preparation, functional group compatibility, and application. <i>Canadian Journal of Chemistry</i> , 2012, 90, 944-953.	0.6	6
107	Cation Clock Permits Distinction Between the Mechanisms of $\hat{1}^2$ - and $\hat{1}^2$ -O- and $\hat{1}^2$ -C-Glycosylation in the Mannopyranose Series: Evidence for the Existence of a Mannopyranosyl Oxocarbenium Ion. <i>Journal of the American Chemical Society</i> , 2012, 134, 14746-14749.	6.6	96
108	Stereoselective <i>C</i> -Glycoside Formation with 2- <i>O</i> -Benzyl-4,6- <i>O</i> -benzylidene Protected 3-Deoxy Gluco- and Mannopyranoside Donors: Comparison with <i>O</i> -Glycoside Formation. <i>Journal of Organic Chemistry</i> , 2012, 77, 8905-8912.	1.7	30

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109	Influence of protecting groups on the anomeric equilibrium; case of the 4,6-O-benzylidene acetal in the mannopyranose series. <i>Carbohydrate Research</i> , 2012, 357, 126-131.	1.1	14
110	Dissecting the Influence of Oxazolidinones and Cyclic Carbonates in Sialic Acid Chemistry. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11105-11109.	7.2	63
111	Asymmetric Synthesis of Polyhydroxylated N-Alkoxy-piperidines by Ring-Closing Double Reductive Amination: Facile Preparation of Isofagomine and Analogues. <i>Organic Letters</i> , 2012, 14, 596-599.	2.4	37
112	Synthesis, Characterization, and Coupling Reactions of Six-Membered Cyclic P-Chiral Ammonium Phosphonite-Boranes; Reactive H-Phosphinate Equivalents for the Stereoselective Synthesis of Glycomimetics. <i>Journal of the American Chemical Society</i> , 2012, 134, 12289-12301.	6.6	35
113	Dissecting the mechanisms of a class of chemical glycosylation using primary ¹³ C kinetic isotope effects. <i>Nature Chemistry</i> , 2012, 4, 663-667.	6.6	180
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