David Crich

List of Publications by Year
in descending order

385 papers	19,603 citations	13827 67 h-index	20307 116 g-index
417 all docs	417 docs citations	417 times ranked	8256 citing authors

#	Article	IF	Citations
1	Chemistry of Acyl Radicals. Chemical Reviews, 1999, 99, 1991-2070.	23.0	800
2	The invention of new radical chain reactions. Part VIII. Radical chemistry of thiohydroxamic esters; A new method for the generation of carbon radicals from carboxylic acids. Tetrahedron, 1985, 41, 3901-3924.	1.0	546
3	Radical chemistry associated with the thiocarbonyl group. Chemical Reviews, 1989, 89, 1413-1432.	23.0	463
4	Mechanism of a Chemical Glycosylation Reaction. Accounts of Chemical Research, 2010, 43, 1144-1153.	7.6	436
5	1-Benzenesulfinyl Piperidine/Trifluoromethanesulfonic Anhydride:Â A Potent Combination of Shelf-Stable Reagents for the Low-Temperature Conversion of Thioglycosides to Glycosyl Triflates and for the Formation of Diverse Glycosidic Linkages. Journal of the American Chemical Society, 2001, 123, 9015-9020.	6.6	379
6	Chemistry of the Hexahydropyrrolo[2,3-b]indoles:â€‰ Configuration, Conformation, Reactivity, and Applications in Synthesis. Accounts of Chemical Research, 2007, 40, 151-161.	7.6	374
7	Are Glycosyl Triflates Intermediates in the Sulfoxide Glycosylation Method? A Chemical and 1H, 13C, and 19F NMR Spectroscopic Investigation. Journal of the American Chemical Society, 1997, 119, 11217-11223.	6.6	355
8	New and improved methods for the radical decarboxylation of acids. Journal of the Chemical Society Chemical Communications, 1983, , 939.	2.0	348
9	Formation of Î²-Mannopyranosides of Primary Alcohols Using the Sulfoxide Method. Journal of Organic Chemistry, 1996, 61, 4506-4507.	1.7	297
10	Direct chemical synthesis of Î²-mannopyranosides and other glycosides via glycosyl triflates. Tetrahedron, 1998, 54, 8321-8348.	1.0	292
11	Direct Formation of Î²-Mannopyranosides and Other Hindered Glycosides from Thioglycosides. Journal of the American Chemical Society, 1998, 120, 435-436.	6.6	292
12	Native Chemical Ligation at Phenylalanine. Journal of the American Chemical Society, 2007, 129, 10064-10065.	6.6	275
13	Direct Synthesis of Î²-Mannopyranosides by the Sulfoxide Method. Journal of Organic Chemistry, 1997, 62, 1198-1199.	1.7	248
14	The Experimental Evidence in Support of Glycosylation Mechanisms at the S_N1â€“S_N2 Interface. Chemical Reviews, 2018, 118, 8242-8284.	23.0	246
15	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
16	Why Are the Hydroxy Groups of Partially Protected N-Acetylglucosamine Derivatives Such Poor Glycosyl Acceptors, and What Can Be Done about It? A Comparative Study of the Reactivity of N-Acetyl-, N-Phthalimido-, and 2-Azido-2-deoxy-glucosamine Derivatives in Glycosylation. 2-Picolinyl Ethers as Reactivity-Enhancing Replacements for Benzyl Ethers. Journal of the American Chemical Society, 2001, 123, 6819-6825.	6.6	206
17	Mechanism of 4,6-O-Benzylidene-DirectedÎ²-Mannosylation as Determined byÎ±-Deuterium Kinetic Isotope Effects. Angewandte Chemie - International Edition, 2004, 43, 5386-5389.	7.2	194
18	Dissecting the mechanisms of a class of chemical glycosylation using primary 13C kinetic isotope effects. Nature Chemistry, 2012, 4, 663-667.	6.6	180

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19	A practical alternative to the hunsdiecker reaction. Tetrahedron Letters, 1983, 24, 4979-4982.	0.7	176
20	O-Sialylation withN-Acetyl-5-N,4-O-Carbonyl-Protected Thiosialoside Donors in Dichloromethane:Â Facile and Selective Cleavage of the Oxazolidinone Ring. Journal of Organic Chemistry, 2007, 72, 2387-2391.	1.7	155
21	Chemistry of 4,6-O-Benzylidene-d-glycopyranosyl Triflates:Â Contrasting Behavior between the Gluco and Manno Series. Journal of Organic Chemistry, 1999, 64, 4926-4930.	1.7	150
22	Photoinduced Free Radical Chemistry of the Acyl Tellurides: Generation, Inter- and Intramolecular Trapping, and ESR Spectroscopic Identification of Acyl Radicals. Journal of the American Chemical Society, 1994, 116, 8937-8951.	6.6	144
23	Chemistry of Î²-(Acyloxy)alkyl and Î²-(Phosphatoxy)alkyl Radicals and Related Species:â€‰ Radical and Radical Ionic Migrations and Fragmentations of Carbonâ^'Oxygen Bonds. Chemical Reviews, 1997, 97, 3273-3312.	23.0	137
24	Highly Diastereoselective Î±-Mannopyranosylation in the Absence of Participating Protecting Groups. Journal of Organic Chemistry, 2000, 65, 1291-1297.	1.7	131
25	Î±-Selective Sialylations at â'78 Â°C in Nitrile Solvents with a 1-Adamantanyl Thiosialoside. Journal of Organic Chemistry, 2007, 72, 7794-7797.	1.7	130
26	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
27	Does Neighboring Group Participation by Non-Vicinal Esters Play a Role in Glycosylation Reactions? Effective Probes for the Detection of Bridging Intermediates. Journal of Organic Chemistry, 2008, 73, 8942-8953.	1.7	124
28	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
29	On the mechanism of the deoxygenation of secondary alcohols by the reduction of their methyl xanthates by tin hydrides. Tetrahedron, 1986, 42, 2329-2338.	1.0	119
30	2,4,6-Tri-tert-butylpyrimidine (TTBP): A Cost Effective, Readily Available Alternative to the Hindered Base 2,6-Di-tert-butylpyridine and its 4-Substituted Derivatives in Glycosylation and Other Reactions. Synthesis, 2001, 2001, 0323-0326.	1.2	119
31	Electrochemical Generation of Glycosyl Triflate Pools. Journal of the American Chemical Society, 2007, 129, 10922-10928.	6.6	116
32	Methodology Development and Physical Organic Chemistry: A Powerful Combination for the Advancement of Glycochemistry. Journal of Organic Chemistry, 2011, 76, 9193-9209.	1.7	114
33	On the Use of 3,5-O-Benzylidene and 3,5-O-(Di-tert-butylsilylene)-2-O-benzylarabinothiofuranosides and Their Sulfoxides as Glycosyl Donors for the Synthesis of Î²-Arabinofuranosides:Â Importance of the Activation Method. Journal of Organic Chemistry, 2007, 72, 1553-1565.	1.7	112
34	Benzylidene Acetal Fragmentation Route to 6-Deoxy Sugars:â€‰ Direct Reductive Cleavage in the Presence of Ether Protecting Groups, Permitting the Efficient, Highly Stereocontrolled Synthesis of Î²-d-Rhamnosides from d-Mannosyl Glycosyl Donors. Total Synthesis of Î±-d-Gal-(1â†'3)-Î±-d-Rha-(1â†'3)-Î²-d-Rha-(1â†'4)-Î²-d-Glu-OMe, the Repeating Unit of the Antigenic Lipopolysaccharide from Escherichia hermannii ATCC 33650 and 33652. Journal of the American Chemical Society, 2004, 126, 8232-8236.	6.6	109
35	A propos of glycosyl cations and the mechanism of chemical glycosylation. Comptes Rendus Chimie, 2011, 14, 3-16.	0.2	109
36	Solid-Phase Synthesis of Î²-Mannosides. Journal of the American Chemical Society, 2002, 124, 8867-8869.	6.6	106

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37	The chemistry of acyl tellurides: generation and trapping of acyl radicals, including aryltellurium group transfer. Journal of the American Chemical Society, 1992, 114, 8313-8314.	6.6	104
38	Direct Chemical Synthesis of the Î²-Mannans:Â Linear and Block Syntheses of the Alternating Î²-(1â†'3)-Î²-(1â†'4)-Mannan Common toRhodotorulaglutinis,Rhodotorulamucilaginosa, andLeptospirabiflexa. Journal of the American Chemical Society, 2004, 126, 15081-15086.	6.6	98
39	Facile Amide Bond Formation from Carboxylic Acids and Isocyanates. Organic Letters, 2011, 13, 2256-2259.	2.4	97
40	On the Role of Neighboring Group Participation and Ortho Esters in Î²-Xylosylation:Â13C NMR Observation of a Bridging 2-Phenyl-1,3-dioxalenium Ion. Journal of Organic Chemistry, 1999, 64, 5224-5229.	1.7	96
41	CHEMISTRY OF GLYCOSYL TRIFLATES: SYNTHESIS OFÎ²-MANNOPYRANOSIDES. Journal of Carbohydrate Chemistry, 2002, 21, 663-686.	0.4	96
42	Cation Clock Permits Distinction Between the Mechanisms of Î±- and Î²-O- and Î²-C-Glycosylation in the Mannopyranose Series: Evidence for the Existence of a Mannopyranosyl Oxocarbenium Ion. Journal of the American Chemical Society, 2012, 134, 14746-14749.	6.6	96
43	Chemistry of Cyclic Tautomers of Tryptophan: Formation of a Quaternary Center at C3a and Total Synthesis of the Marine Alkaloid (+)-ent-Debromoflustramine B. Journal of Organic Chemistry, 1994, 59, 5543-5549.	1.7	95
44	The free radical chemistry of carboxylic esters of 2-selenopyridine--oxide: a convenient synthesis of (L)-vinylglycine. Tetrahedron, 1985, 41, 4347-4357.	1.0	94
45	Reaction of Thioacids with Isocyanates and Isothiocyanates: A Convenient Amide Ligation Process. Organic Letters, 2009, 11, 3514-3517.	2.4	90
46	A Practical Method for the Removal of Organotin Residues from Reaction Mixtures. Journal of Organic Chemistry, 1996, 61, 7200-7201.	1.7	89
47	Amino Acid and Peptide Synthesis and Functionalization by the Reaction of Thioacids with 2,4-Dinitrobenzenesulfonamides. Organic Letters, 2007, 9, 4423-4426.	2.4	88
48	Stannane-Mediated Radical Addition to Arenes. Generation of Cyclohexadienyl Radicals and Increased Propagation Efficiency in the Presence of Catalytic Benzeneselenol. Journal of Organic Chemistry, 1998, 63, 2765-2770.	1.7	87
49	Epimerizationâ€Free Block Synthesis of Peptides from Thioacids and Amines with the Sanger and Mukaiyama Reagents. Angewandte Chemie - International Edition, 2009, 48, 2355-2358.	7.2	87
50	Chemistry of 1-Alkoxy-1-glycosyl Radicals:Â The Manno- and Rhamnopyranosyl Series. Inversion of Î±- to Î²-Pyranosides and the Fragmentation of Anomeric Radicals. Journal of Organic Chemistry, 1996, 61, 605-615.	1.7	85
51	Direct Chemical Synthesis of the Î²-d-Mannans: The Î²-(1â†'2) and Î²-(1â†'4) Series. Journal of the American Chemical Society, 2004, 126, 14930-14934.	6.6	84
52	On the Influence of the C2â^'O2 and C3â^'O3 Bonds in 4,6-O-Benzylidene-Directed Î²-Mannopyranosylation and Î±-Glucopyranosylation. Journal of Organic Chemistry, 2006, 71, 8473-8480.	1.7	83
53	Efficient Glycosidation of a Phenyl Thiosialoside Donor with Diphenyl Sulfoxide and Triflic Anhydride in Dichloromethane. Organic Letters, 2006, 8, 959-962.	2.4	83
54	En Route to the Transformation of Glycoscience: A Chemistâ€™s Perspective on Internal and External Crossroads in Glycochemistry. Journal of the American Chemical Society, 2021, 143, 17-34.	6.6	82

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55	6-O-Benzyl- and 6-O-Silyl-N-acetyl-2-amino-2-N,3-O-carbonyl-2-deoxyglucosides:Â Effective Glycosyl Acceptors in the Glucosamine 4-OH Series. Effect of Anomeric Stereochemistry on the Removal of the Oxazolidinone Group. Journal of Organic Chemistry, 2005, 70, 1291-1296.	1.7	81
56	Formation of carbon-carbon bonds with radicals derived from the esters of thiohydroxamic acids. Tetrahedron Letters, 1984, 25, 1055-1058.	0.7	80
57	Generation of Acyl Radicals from Thiolesters by Intramolecular Homolytic Substitution at Sulfur. Journal of Organic Chemistry, 1996, 61, 3566-3570.	1.7	80
58	S-(4-Methoxyphenyl) Benzenethiosulfinate (MPBT)/Trifluoromethanesulfonic Anhydride:â€‰ A Convenient System for the Generation of Glycosyl Triflates from Thioglycosides. Organic Letters, 2000, 2, 4067-4069.	2.4	79
59	Direct Synthesis of the Î²-l-Rhamnopyranosides. Organic Letters, 2003, 5, 781-784.	2.4	78
60	Influence of the 4,6-O-Benzylidene, 4,6-O-Phenylboronate, and 4,6-O-Polystyrylboronate Protecting Groups on the Stereochemical Outcome of Thioglycoside-Based Glycosylations Mediated by 1-Benzenesulfinyl Piperidine/Triflic Anhydride andN-Iodosuccinimide/Trimethylsilyl Triflate. Journal of Organic Chemistry, 2003, 68, 8142-8148.	1.7	77
61	Enhanced Diastereoselectivity in Î²-Mannopyranosylation through the Use of Sterically Minimal Propargyl Ether Protecting Groups. Journal of Organic Chemistry, 2006, 71, 3064-3070.	1.7	77
62	<i>In vitro</i>activity of apramycin against multidrug-, carbapenem- and aminoglycoside-resistant Enterobacteriaceae and<i>Acinetobacter baumannii</i>. Journal of Antimicrobial Chemotherapy, 2019, 74, 944-952.	1.3	76
63	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>transâ€"gauche</i> Conformation of C5â€"C6 Bonds. Journal of the American Chemical Society, 2013, 135, 14249-14255.	6.6	73
64	1]3Subunit of the Antigenic Polysaccharides fromLeptospirabiflexaand the Octameric (1â†'2)-Linked Î²-d-Mannan of theCandida albicansPhospholipomannan. X-ray Crystal Structure of a Protected Tetramer. Journal of the American Chemical Society, 2001, 123, 5826-5828.	6.6	72
65	Direct Stereoselective Synthesis of Î²-Thiomannosides. Journal of Organic Chemistry, 2000, 65, 801-805.	1.7	71
66	Stereocontrolled Synthesis of thed- andl-glycero-Î²-d-manno-Heptopyranosides and Their 6-Deoxy Analogues. Synthesis of Methyl Î±-l-Rhamno-pyranosyl-(1â†'3)-d-glycero-Î²-d-manno-heptopyranosyl-(1â†'3)-6-deoxy-glycero-Î²-d-manno-heptopyranosyl-(1â†'4)-Î±-l-rhamno-pyranoside, a Tetrasaccharide Subunit of the Lipopolysaccharide fromPlesimonas shigelloides. Journal of the American Chemical Society, 2006, 128, 8078-8086.	6.6	70
67	Stereoselective Iterative One-Pot Synthesis of<i>N</i>-Glycolylneuraminic Acid-Containing Oligosaccharides. Organic Letters, 2008, 10, 4033-4035.	2.4	70
68	The 3,4-O-Carbonate Protecting Group as a Î²-Directing Group in Rhamnopyranosylation in Both Homogeneous and Heterogeneous Glycosylations As Compared to the Chameleon-like 2,3-O-Carbonates. Journal of Organic Chemistry, 2003, 68, 8453-8458.	1.7	69
69	Anomericity of T-2 Toxin-glucoside: Masked Mycotoxin in Cereal Crops. Journal of Agricultural and Food Chemistry, 2015, 63, 731-738.	2.4	68
70	Disarming, non-participating 2-O-protecting groups in manno- and rhamnopyranosylation: scope and limitations of sulfonates, vinylogous esters, phosphates, cyanates, and nitrates. Tetrahedron: Asymmetry, 2005, 16, 105-119.	1.8	67
71	Influence of Protecting Groups on the Reactivity and Selectivity of Glycosylation: Chemistry of the 4,6-O-Benzylidene Protected Mannopyranosyl Donors and Related Species. Topics in Current Chemistry, 2010, 301, 141-188.	4.0	67
72	Dissecting the Influence of Oxazolidinones and Cyclic Carbonates in Sialic Acid Chemistry. Angewandte Chemie - International Edition, 2012, 51, 11105-11109.	7.2	63

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73	Î²-Phosphatoxyalkyl Radical Reactions:â€‰ Competing Phosphate Migration and Phosphoric Acid Elimination from a Radical CationâPhosphate Anion Pair Formed by Heterolytic Fragmentation. Journal of the American Chemical Society, 1999, 121, 10685-10694.	6.6	62
74	Catalytic Allylic Oxidation with a Recyclable, Fluorous Seleninic Acid. Organic Letters, 2004, 6, 775-777.	2.4	62
75	2-O-Propargyl Ethers:â€‰ Readily Cleavable, Minimally Intrusive Protecting Groups for Î²-Mannosyl Donors. Organic Letters, 2005, 7, 2277-2280.	2.4	62
76	CD1c Presentation of Synthetic Glycolipid Antigens with Foreign Alkyl Branching Motifs. Chemistry and Biology, 2007, 14, 1232-1242.	6.2	62
77	Stereoselective free radical reactions in the preparation of 2-deoxy-Î²-D-glucosides. Journal of the Chemical Society Chemical Communications, 1988, .	2.0	61
78	Revisiting the Armedâ^'Disarmed Concept:â€‰ The Importance of Anomeric Configuration in the Activation of S-Benzoxazolyl Glycosides. Organic Letters, 2007, 9, 4115-4118.	2.4	60
79	Oxidation of olefins with 2-pyridineseleninic anhydride. Tetrahedron, 1985, 41, 4359-4364.	1.0	59
80	4,6-O-Benzylidene-Directed Î²-Mannopyranosylation and Î±-Glucopyranosylation:Â The 2-Deoxy-2-fluoro and 3-Deoxy-3-fluoro Series of Donors and the Importance of the O2â^'C2â^'C3â^'O3 Interaction. Journal of Organic Chemistry, 2007, 72, 1681-1690.	1.7	59
81	Oxazolidinone Protection ofN-Acetylglucosamine Confers High Reactivity on the 4-Hydroxy Group in Glycosylation. Organic Letters, 2003, 5, 1297-1300.	2.4	57
82	4,6-O-[1-Cyano-2-(2-iodophenyl)ethylidene] Acetals. Improved Second-Generation Acetals for the Stereoselective Formation of Î²-d-Mannopyranosides and Regioselective Reductive Radical Fragmentation to Î²-d-Rhamnopyranosides. Scope and Limitations. Journal of Organic Chemistry, 2006, 71, 3452-3463.	1.7	57
83	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
84	Formation of quaternary carbon centres from tertiary alcohols by free radical methods. Tetrahedron Letters, 1985, 26, 757-760.	0.7	56
85	Fluorous Swern Reaction. Journal of the American Chemical Society, 2001, 123, 7449-7450.	6.6	55
86	Synthesis of carbazomycin B by radical arylation of benzene. Tetrahedron, 2004, 60, 1513-1516.	1.0	55
87	Dechalcogenative Allylic Selenosulfide and Disulfide Rearrangements:â€‰ Complementary Methods for the Formation of Allylic Sulfides in the Absence of Electrophiles. Scope, Limitations, and Application to the Functionalization of Unprotected Peptides in Aqueous Media. Journal of the American Chemical Society, 2007, 129, 10282-10294.	6.6	55
88	Influence of Side Chain Conformation and Configuration on Glycosyl Donor Reactivity and Selectivity as Illustrated by Sialic Acid Donors Epimeric at the 7-Position. Journal of the American Chemical Society, 2013, 135, 18999-19007.	6.6	55
89	Inhibition of Rearrangements in Stannane-Mediated Radical Reduction Reactions by Catalytic Quantities of Diphenyl Diselenide. An Example of Polarity Reversal Catalysis. Journal of Organic Chemistry, 1995, 60, 84-88.	1.7	54
90	On the Reaction of Tryptophan Derivatives withN-Phenylselenyl Phthalimide:Â The Nature of the Kinetic and Thermodynamic Hexahydropyrrolo[2,3-b]indole Products. Alkylation of Tryptophan with Inversion of Configuration. Journal of Organic Chemistry, 1999, 64, 7218-7223.	1.7	54

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91	Expedient Synthesis ofthreo-Î²-Hydroxy-Î±-amino Acid Derivatives:Â Phenylalanine, Tyrosine, Histidine, and Tryptophan. Journal of Organic Chemistry, 2006, 71, 7106-7109.	1.7	54
92	Trifluoromethanesulfonate Anion as Nucleophile in Organic Chemistry. Journal of Organic Chemistry, 2017, 82, 9263-9269.	1.7	54
93	The invention of new radical chain reactions. Part 12. Improved methods for the addition of carbon radicals to substituted allylic groups. Journal of the Chemical Society Perkin Transactions 1, 1986, , 1613.	0.9	53
94	On the effect of ring size in the cyclization of carbonyl and vinyl radicals onto alkenes. Tetrahedron Letters, 1987, 28, 2895-2898.	0.7	53
95	Intramolecular hydrogen atom abstraction in carbohydrates and nucleosides: Inversion of an Î±- to Î²-mannopyranoside and generation of thymidine C-4â€² radicals. Tetrahedron Letters, 1994, 35, 6619-6622.	0.7	53
96	Allylic Selenosulfide Rearrangement:Â A Method for Chemical Ligation to Cysteine and Other Thiols. Journal of the American Chemical Society, 2006, 128, 2544-2545.	6.6	53
97	Synthesis and Glycosylation of a Series of 6-Mono-, Di-, and Trifluoro <i>S</i>-Phenyl 2,3,4-Tri-<i>O</i>-benzyl-thiorhamnopyranosides. Effect of the Fluorine Substituents on Glycosylation Stereoselectivity. Journal of the American Chemical Society, 2007, 129, 11756-11765.	6.6	53
98	Some observations on the mechanism of the Mitsunobu reaction. Journal of Organic Chemistry, 1989, 54, 257-259.	1.7	51
99	Generation and Cyclization of Acyl Radicals from Thiol Esters Under Nonreducing, Tin-Free Conditions. Journal of Organic Chemistry, 1997, 62, 5982-5988.	1.7	51
100	Synthesis of the Salmonella Type E1Core Trisaccharide as a Probe for the Generality of 1-(Benzenesulfinyl)piperidine/Triflic Anhydride Combination for Glycosidic Bond Formation from Thioglycosides. Journal of Organic Chemistry, 2002, 67, 4640-4646.	1.7	51
101	The fluorous Swern and Coreyâ€"Kim reactions: scope and mechanism. Tetrahedron, 2002, 58, 3865-3870.	1.0	51
102	Structure and distribution of branched aliphatic alkanes with quaternary carbon atoms in Cenomanian and Turonian black shales of Pasquia Hills (Saskatchewan, Canada). Organic Geochemistry, 2005, 36, 117-138.	0.9	51
103	Stereocontrolled Formation of Î²-Glucosides and Related Linkages in the Absence of Neighboring Group Participation:Â Influence of atrans-Fused 2,3-O-Carbonate Group. Journal of Organic Chemistry, 2005, 70, 7252-7259.	1.7	51
104	Catalysis of Stannane-Mediated Radical Chain Reactions by Benzeneselenol. Accounts of Chemical Research, 2007, 40, 453-463.	7.6	51
105	A stable, commercially available sulfenyl chloride for the activation of thioglycosides in conjunction with silver trifluoromethanesulfonate. Carbohydrate Research, 2008, 343, 1858-1862.	1.1	51
106	On the mechanism of the decarboxylative rearrangement of thiohydroxamic esters. Tetrahedron Letters, 1985, 26, 5943-5946.	0.7	50
107	Synthesis of the Antigenic Tetrasaccharide Side Chain from the Major Glycoprotein ofBacillusanthracisExosporium. Journal of Organic Chemistry, 2007, 72, 6513-6520.	1.7	50
108	Tandem Polar/Radical Crossover Sequences for the Formation of Fused and Bridged Bicyclic Nitrogen Heterocycles Involving Radical Ionic Chain Reactions, and Alkene Radical Cation Intermediates, Performed under Reducing Conditions:Â Scope and Limitations. Journal of the American Chemical Society, 2003, 125, 7942-7947.	6.6	49

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109	Design, synthesis, application and recovery of a minimally fluorous diaryl diselenide for the catalysis of stannane-mediated radical chain reactions. Tetrahedron, 1999, 55, 14261-14268.	1.0	48
110	Confirmation of the Connectivity of 4,8,12,16,20-Pentamethylpentacosylphoshoryl Î²-d-Mannopyranoside, an Unusual Î²-Mannosyl Phosphoisoprenoid fromMycobacteriumavium, through Synthesis. Journal of the American Chemical Society, 2002, 124, 2263-2266.	6.6	48
111	Branched aliphatic alkanes with quaternary substituted carbon atoms in modern and ancient geologic samples. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12554-12558.	3.3	48
112	Direct synthesis of Î²-mannosides. Synthesis of Î²-D-xyl-(1â†'2)-Î²-D-man-(1â†'4)-Î±-D-Glc-OMe: A trisaccharide component of the Hyriopsis schlegelii glycosphingolipid. Formation of an orthoester from a xylopyranosyl sulfoxide. Tetrahedron, 1999, 55, 1569-1580.	1.0	47
113	Catalytic Oxidation Adjacent to Carbonyl Groups and at Benzylic Positions with a Fluorous Seleninic Acid in the Presence of Iodoxybenzene. Journal of Organic Chemistry, 2005, 70, 3309-3311.	1.7	47
114	Aminoglycosides: Time for the Resurrection of a Neglected Class of Antibacterials?. ACS Infectious Diseases, 2020, 6, 168-172.	1.8	47
115	Heterolytic Cleavage of a Î²-Phosphatoxyalkyl Radical Resulting in Phosphate Migration or Radical Cation Formation as a Function of Solvent Polarity. Organic Letters, 1999, 1, 153-156.	2.4	46
116	Inter- and Intramolecular Pathways for the Formation of Tetrahydrofurans from Î²-(Phosphatoxy)alkyl Radicals. Evidence for a Dissociative Mechanism. Journal of Organic Chemistry, 2000, 65, 523-529.	1.7	46
117	Stereoselective Formation of Glycosyl Sulfoxides and Their Subsequent Equilibration:Â Ring Inversion of an Î±-Xylopyranosyl Sulfoxide Dependent on the Configuration at Sulfur. Journal of the American Chemical Society, 2002, 124, 6028-6036.	6.6	46
118	A short synthesis of the trisaccharide building block of the N-linked glycans. Tetrahedron Letters, 2003, 44, 1787-1789.	0.7	46
119	Triblock Peptide and Peptide Thioester Synthesis With Reactivityâ€Differentiated Sulfonamides and Peptidyl Thioacids. Angewandte Chemie - International Edition, 2009, 48, 7591-7594.	7.2	46
120	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. Journal of the American Chemical Society, 2019, 141, 5051-5061.	6.6	46
121	Optimizing the ratio of vinyl radical cyclizations through catalysis with diphenyl diselenide. Tetrahedron Letters, 1996, 37, 3105-3108.	0.7	45
122	1-Naphthylpropargyl Ether Group:â€‰ A Readily Cleaved and Sterically Minimal Protecting System for Stereoselective Glycosylation. Organic Letters, 2006, 8, 4879-4882.	2.4	45
123	Is Donorâˆ'Acceptor Hydrogen Bonding Necessary for 4,6-<i>O</i>-Benzylidene-directed Î²-Mannopyranosylation? Stereoselective Synthesis of Î²-<i>C</i>-Mannopyranosides and Î±-<i>C</i>-Glucopyranosides. Organic Letters, 2008, 10, 4731-4734.	2.4	45
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