

J Cristobal Lopez

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130
papers

2,525
citations

25
h-index

40
g-index

175
ext. papers

2,786
ext. citations

4.1
avg. IF

4.69
L-index

#	Paper	IF	Citations
130	Synthesis and conformational and biological aspects of carbasugars. <i>Chemical Reviews</i> , 2007 , 107, 1919-2036	10.3	291
129	Recent Developments in the Ferrier Rearrangement. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 7221-7262	3.2	109
128	Synthesis of a 28-mer oligosaccharide core of Mycobacterial lipoarabinomannan (LAM) requires only two n-pentenyl orthoester progenitors. <i>Tetrahedron: Asymmetry</i> , 2006 , 17, 2449-2463		103
127	Ferrier Rearrangement under Nonacidic Conditions Based on Iodonium-Induced Rearrangements of Allylic n-Pentenyl Esters, n-Pentenyl Glycosides, and Phenyl Thioglycosides. <i>Journal of Organic Chemistry</i> , 1995 , 60, 3851-3858	4.2	73
126	Reciprocal Donor Acceptor Selectivity (RDAS) and Paulsen's Concept of "Match" in Saccharide Coupling. <i>European Journal of Organic Chemistry</i> , 2004 , 2004, 1387-1395	3.2	62
125	Armed-disarmed effects in carbohydrate chemistry: history, synthetic and mechanistic studies. <i>Topics in Current Chemistry</i> , 2011 , 301, 1-29		48
124	Serial radical reactions of enol ethers: ready routes to highly functionalized C-glycosyl derivatives. <i>Journal of the American Chemical Society</i> , 1989 , 111, 3450-3452	16.4	43
123	Unexpected role of O-2 "protecting" groups of glycosyl donors in mediating regioselective glycosidation. <i>Journal of the American Chemical Society</i> , 2002 , 124, 3198-9	16.4	41
122	n-Pentenyl esters facilitate an oxidative alternative to the Ferrier rearrangement. An expeditious route to sucrose. <i>Journal of the Chemical Society Chemical Communications</i> , 1992 , 94-96		40
121	Iterative, orthogonal strategy for oligosaccharide synthesis based on the regioselective glycosylation of polyol acceptors with partially unprotected n-pentenyl-orthoesters: further evidence for reciprocal donor acceptor selectivity (RDAS). <i>Chemical Communications</i> , 2005 , 5088-90	5.8	38
120	n-Pentenyl esters versus n-pentenyl glycosides. Synthesis and reactivity in glycosidation reactions. <i>Journal of the Chemical Society Chemical Communications</i> , 1991 , 159		38
119	Synthesis of Carbasugars Based on Ring Closing Metathesis: 2000-2006. <i>Mini-Reviews in Organic Chemistry</i> , 2007 , 4, 201-216	1.7	36
118	Leads for development of new naphthalenesulfonate derivatives with enhanced antiangiogenic activity: crystal structure of acidic fibroblast growth factor in complex with 5-amino-2-naphthalene sulfonate. <i>Journal of Biological Chemistry</i> , 2003 , 278, 21774-81	5.4	36
117	Relevance of the glycosyl donor to the regioselectivity of glycosidation of primary-secondary diol acceptors and application of these ideas to in situ three-component double differential glycosidation. <i>Organic Letters</i> , 2005 , 7, 4899-902	6.2	35
116	Serial Radical Cyclization of Pyranose-Derived Dienes in the Stereocontrolled Synthesis of Woodward's Reserpine Precursor. <i>Journal of Organic Chemistry</i> , 1995 , 60, 3859-3870	4.2	35
115	Metathesis Reactions of Carbohydrates: Recent Highlights in Cross-Metathesis. <i>European Journal of Organic Chemistry</i> , 2010 , 2010, 6123-6143	3.2	34
114	One pot/two donors/one diol give one differentiated trisaccharide: powerful evidence for reciprocal donor-acceptor selectivity (RDAS). <i>Chemical Communications</i> , 2002 , 2104-5	5.8	32

113	Secondary Metabolites from Satureja Species. New Triterpenoid from Satureja acinos. <i>Journal of Natural Products</i> , 1985 , 48, 128-131	4.9	32
112	Serial Radical Reactions of Glycols: Ready Routes to Highly Functionalized C-Glycosyl Derivatives. <i>Journal of Organic Chemistry</i> , 1995 , 60, 3871-3878	4.2	31
111	Thioglycoside and trichloroacetimidate donors in regioselective glycosidations. Comparison with n-pentenyl glycosides. <i>Tetrahedron Letters</i> , 2003 , 44, 1417-1420	2	30
110	Regio- and Stereocontrolled 6-Endo-TrigRadical Cyclization of Vinyl Radicals: A Novel Entry to Carbasugars from Carbohydrates. <i>Journal of Organic Chemistry</i> , 1998 , 63, 9626-9627	4.2	28
109	A novel strategy for regio- and stereo-control in glycosylation reactions: template-directed cyclo-glycosylation of monosaccharides. <i>Journal of the Chemical Society Chemical Communications</i> , 1995 , 2005-2006		28
108	IPy2BF4-mediated transformation of n-pentenyl glycosides to glycosyl fluorides: a new pair of semiorthogonal glycosyl donors. <i>Organic Letters</i> , 2007 , 9, 2759-62	6.2	27
107	Reciprocal donor acceptor selectivity (RDAS): A new concept for "matching" donors with acceptors. <i>Canadian Journal of Chemistry</i> , 2002 , 80, 1075-1087	0.9	27
106	Template directed cyclo-glycosylation: Effect of the anchoring sites of the spacer and temperature in the regio- and stereo-selectivity of the glycosylation. <i>Tetrahedron Letters</i> , 1996 , 37, 1105-1108	2	25
105	Two terpenoids from salvia bicolor. <i>Phytochemistry</i> , 1985 , 24, 111-113	4	25
104	Stereoselective synthesis of substituted exo-glycols from 1-exo-methylene pyranoses. <i>Tetrahedron Letters</i> , 2003 , 44, 6111-6116	2	24
103	Metathesis Reactions of Carbohydrates: Recent Highlights in Alkyne Metathesis. <i>European Journal of Organic Chemistry</i> , 2011 , 2011, 1803-1825	3.2	23
102	A Stereodivergent Approach to 5a-Carba- β -gluco-, β -galacto and β -L-gulopyranose Pentaacetates from D-Mannose, Based on 6-exo-dig Radical Cyclization and Barton-McCombie Radical Deoxygenation. <i>European Journal of Organic Chemistry</i> , 2004 , 2004, 1830-1840	3.2	23
101	Alkoxy radicals in 1,5-hydrogen shifts for site-specific, stereocontrolled alkylation of carbohydrates. <i>Journal of the American Chemical Society</i> , 1989 , 111, 6471-6473	16.4	23
100	Unsaturated Sugars: A Rich Platform for Methodological and Synthetic Studies. <i>Current Organic Chemistry</i> , 2009 , 13, 532-553	1.7	21
99	A Simple Entry to Pyranoid Glycols: Reaction of Anomeric Glycosyl Sulfoxides with Organolithiums. <i>Synlett</i> , 1996 , 1996, 628-630	2.2	21
98	Six- versus five-membered ring formation in radical cyclization of 1-vinyl-5-methyl-5-hexenyl radicals. <i>Tetrahedron Letters</i> , 2002 , 43, 4997-5000	2	21
97	Serial Radical Cyclization of Pyranose-Derived Dienes in the Stereocontrolled Synthesis of Densely Functionalized Cyclohexanes. A Route to Woodward's Reserpine Precursor. <i>Journal of Organic Chemistry</i> , 1994 , 59, 4048-4050	4.2	21
96	One-Pot Synthesis of Rotationally Restricted, Conjugatable, BODIPY Derivatives from Phthalides. <i>Journal of Organic Chemistry</i> , 2017 , 82, 1240-1247	4.2	20

95	Convenient Access to Carbohydrate-BODIPY Hybrids by Two Complementary Methods Involving One-Pot Assembly of Clickable-BODIPY Dyes. <i>European Journal of Organic Chemistry</i> , 2014 , 2014, 5659-5663	3.2	20
94	A general stereodivergent strategy for the preparation of carbasugars. Syntheses of 5a-carba- β -D-glucose, β -D-galactose, and β -D-gulose pentaacetates from d-mannose. <i>Tetrahedron Letters</i> , 2002 , 43, 5559-5562	2	20
93	One-pot synthesis of 1-exo-alkylidene-2,3-anhydro furanoses: convenient precursors for exo-glycals and functionalized C-glycals. <i>Chemical Communications</i> , 2002 , 2022-3	5.8	20
92	A general method for convergent synthesis of functionalized exo-glycals based on halogenation and Suzuki cross-coupling of 1-exo-methylene sugars. <i>Chemical Communications</i> , 2002 , 2024-5	5.8	20
91	Straightforward route to 2- and 3-formyl hex-1- and -2-enopyranosides and their highly stereoselective hetero Diels-Alder reaction with ethyl vinyl ether. <i>Journal of the Chemical Society Chemical Communications</i> , 1988 , 514-515		20
90	Protecting Groups in Carbohydrate Chemistry Profoundly Influence All Selectivities in Glycosyl Couplings. <i>ACS Symposium Series</i> , 2007 , 91-117	0.4	19
89	A substrate-based approach to skeletal diversity from dicobalt hexacarbonyl (C1)-alkynyl glycals by exploiting its combined Ferrier-Nicholas reactivity. <i>Chemistry - A European Journal</i> , 2014 , 20, 10492-502	4.8	18
88	Evidence for Efficient Unpromoted Regioselective Reactions of Vicinal and Non-Vicinal Diols. <i>Australian Journal of Chemistry</i> , 2002 , 55, 123	1.2	18
87	Efficient routes to pyranosidic homologated conjugated enals and dienes from monosaccharides. <i>Tetrahedron</i> , 1993 , 49, 7701-7722	2.4	18
86	n-Pentenyl glycosides as mediators in the asymmetric synthesis of monosubstituted chiral nonracemic tetrahydrofurans and γ -lactones. <i>Journal of Organic Chemistry</i> , 1990 , 55, 2997-2998	4.2	18
85	Synthesis of Pyranoid and Furanoid Glycals from Glycosyl Sulfoxides by Treatment with Organolithium Reagents. <i>European Journal of Organic Chemistry</i> , 2008 , 2008, 3933-3942	3.2	17
84	Formation and reactivity of novel pyranosidic nicholas oxocarbenium ions: access to C-ketosides and branched-chain C-ketosides. <i>Organic Letters</i> , 2006 , 8, 3187-90	6.2	17
83	Convergent stereocontrolled synthesis of substituted exo-glycals by Stille cross-coupling of halo-exo-glycals and stannanes. <i>Tetrahedron Letters</i> , 2006 , 47, 6243-6246	2	17
82	Stereoselective synthesis of C-ketosides by Lewis acid-catalyzed C-glycosylation of alkynyl-ketoses. <i>Tetrahedron Letters</i> , 2002 , 43, 8935-8940	2	17
81	Unexpected remarkable stability of primary ozonides derived from alkenyl stannanes. One-pot synthesis of 1,2-diols from alkynes. <i>Organic Letters</i> , 2002 , 4, 383-6	6.2	17
80	A novel entry to 5a-carba-hexopyranoses from carbohydrates based on a 6-exo-dig radical cyclization: synthesis of 5a-carba- β -D-mannopyranose pentaacetate. <i>Chemical Communications</i> , 1999 , 175-176	5.8	17
79	Unexpected stereocontrolled access to 1,6'-disaccharides from methyl 1,2-ortho esters. <i>Journal of Organic Chemistry</i> , 2012 , 77, 795-800	4.2	16
78	Sonogashira Couplings of Halo- and Epoxy-Halo-exo-Glycals: Concise Entry to Carbohydrate-Derived Enynes. <i>European Journal of Organic Chemistry</i> , 2010 , 2010, 2910-2920	3.2	16

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- 76 Photochemically Induced Addition of 2-Propanol to Hex-2-enono- β -lactones Followed by Radical Cyclization: A Novel Entry to Branched Cyclohexanes and Cyclopentanes from Carbohydrates. *Journal of Organic Chemistry*, **1997**, 62, 6612-6614 4.2 16
- 75 An expeditious entry to carbohydrate derived enynes and ene-diyne via Sonogashira coupling of halo-exo-glycals. *Tetrahedron Letters*, **2004**, 45, 6307-6310 2 16
- 74 Stereodivergent synthesis of 5a-carba-hexopyranoses from carbohydrates via 6-exo-dig radical cyclization: preparation of 5a-carba- β -manno-, β -allo-, β -talo- and β -gulopyranose pentaacetates from d-mannose. *Tetrahedron: Asymmetry*, **2003**, 14, 2961-2974 16
- 73 Improved synthesis of 2,3:4,6-di-O-isopropylidene-d-glucopyranose and -d-galactopyranose. *Carbohydrate Research*, **1999**, 320, 138-142 2.9 16
- 72 β Facial selectivity in Diels-Alder reactions of C-2-vinyl glycals. Stereocontrolled route to annulated C-glycopyranosides. *Journal of the Chemical Society Chemical Communications*, **1990**, 823-825 16
- 71 Ferrier rearrangement: an update on recent developments. *Carbohydrate Chemistry*, 210-247 3 16
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- 68 Reaction of 1,2-orthoesters with HF-pyridine: a method for the preparation of partly unprotected glycosyl fluorides and their use in saccharide synthesis. *Organic Letters*, **2009**, 11, 4128-31 6.2 15
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- 62 Silicon-tethered radical cyclization and intramolecular Diels-Alder strategies are combined to provide a ready route to highly functionalized decalins. *Journal of the Chemical Society Chemical Communications*, **1993**, 762-764 14
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- 60 Stereospecific access to equatorially functionalized geminal alkyl derivatives of hexopyranosides by cyclopalladation/oxidation. *Journal of the Chemical Society Chemical Communications*, **1988**, 513-514 14

- 59 Parlaying C_D chirality into C_T chirality: improving the cost/benefit ratio of carbohydrate templates. *Chemical Communications*, **1997**, 2251-2257 5.8 13
- 58 6-endo Versus 5-exo radical cyclization: streamlined syntheses of carbahexopyranoses and derivatives by 6-endo-trig radical cyclization. *Tetrahedron Letters*, **2007**, 48, 1645-1649 2 13
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- 56 Methyl 1,2-Orthoesters as Useful Glycosyl Donors in Glycosylation Reactions: A Comparison with n-Pent-4-enyl 1,2-Orthoesters. *European Journal of Organic Chemistry*, **2012**, 2012, 3122-3131 3.2 12
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- 53 Reactions of abietic acid methyl ester with m-chloroperbenzoic acid. *Tetrahedron*, **1986**, 42, 573-582 2.4 12
- 52 A Survey of Recent Synthetic Applications of 2,3-Dideoxy-Hex-2-enopyranosides. *Molecules*, **2015**, 20, 8357-94 4.8 11
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- 50 Some Aspects of Selectivity in the Reaction of Glycosyl Donors*View all notes. *Journal of Carbohydrate Chemistry*, **2005**, 24, 665-675 1.7 11
- 49 Synthesis of 2,3:4,6-di-O-isopropylidene-D-allopyranose from D-glucose. *Carbohydrate Research*, **2005**, 340, 1872-5 2.9 10
- 48 Some studies on proximal addition/elimination procedures in intermolecular carbon-carbon bond-forming free radical reactions. Convenient synthesis of ethyl (E)-(ethyl 2,3,6,7,8-pentadeoxy- β -erythro-nona-2,7-dienopyranosid)uronate. *Journal of the Chemical Society Perkin Transactions 1*, **1994**, 1489-1497 10
- 47 A novel entry to cyclohexanes and cyclopentanes from carbohydrates via inversion of radical reactivity in hex-2-enone-lactones. *Journal of the Chemical Society Chemical Communications*, **1992**, 613-615 10
- 46 Stereospecificity in Diels-Alder reactions of dienes and dienophiles derived from methyl 4,6-O-benzylidene- β -D-glucopyranoside. *Journal of the Chemical Society Chemical Communications*, **1988**, 706-707 10
- 45 Three-component assembly of amines, boronic acids, and a polyfunctionalized furanose: a concise entry to furanose-based carbohydrate templates. *Journal of Organic Chemistry*, **2009**, 74, 6323-6 4.2 9
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- 43 Synthesis of complex carbobicyclic compounds from sugar allyltins: functionalization of the allylic position in bicyclo[4.3.0]nonene derivatives. *Tetrahedron: Asymmetry*, **2005**, 16, 513-518 9
- 42 Stereocontrolled entry to EC-glycosides and bis-C,C-glycosides from C-glycals: preparation of a highly functionalized triene from d-mannose. *Tetrahedron: Asymmetry*, **2001**, 12, 2175-2183 9

41	A Reverse Strategy for synthesis of nucleosides based on n-pentenyl orthoester donors. <i>Chemical Communications</i> , 2013 , 49, 3251-3	5.8	8
40	Stereodivergent Synthesis of Carbasugars from D-Mannose. Syntheses of 5a-Carba- β -D-allose, β -L-Talose, and β -L-Gulose Pentaacetates. <i>Synlett</i> , 2002 , 2002, 0891-0894	2.2	8
39	Fine tuning of chemo- and stereo-selectivity in cyclization reactions of tethered radicals derived from 4-O-substituted- β -D-erythro-oct-2,6-dienopyranosides. Stereoselective access to carbocycles and branched-chain sugars. <i>Journal of the Chemical Society Chemical Communications</i> , 1994 , 1533-1534		8
38	Methyl 1,2-Orthoesters in Acid-Washed Molecular Sieves Mediated Glycosylations. <i>ChemistrySelect</i> , 2016 , 1, 6011-6015	1.8	7
37	Ready Transformation of Partially Unprotected Thioglycosides into Glycosyl Fluorides Mediated by NIS/HF \cdot Pyridine or Et ₃ N \cdot BHF. <i>European Journal of Organic Chemistry</i> , 2008 , 2008, 5037-5041	3.2	7
36	Novel strategies for the preparation of aminocarbasugar analogues: syntheses of N-substituted aminocyclitols from d-mannose. <i>Tetrahedron: Asymmetry</i> , 2005 , 16, 2401-2407		7
35	Study of the Regioselectivity of Intra- and Intermolecular Glycosylations of Mannoside Diol Acceptors. <i>Synlett</i> , 2005 , 2005, 1095-1100	2.2	7
34	Carbohydrates to Carbocycles: Regio- and Stereoselectivity in the Intramolecular [2+2] Photocycloaddition of Dienic 2-Enono- β -Lactones. <i>Synlett</i> , 1998 , 1998, 1402-1404	2.2	7
33	Stereoselective Syntheses of Ethyl (Z)- and (E)-Octa-2,6-dienopyranosiduronates from Ethyl 2,3-Dideoxy- β -D-erythro-hex-2-enopyranoside. <i>Synlett</i> , 1993 , 1993, 557-560	2.2	7
32	BODIPYs as Chemically Stable Fluorescent Tags for Synthetic Glycosylation Strategies towards Fluorescently Labeled Saccharides. <i>Chemistry - A European Journal</i> , 2020 , 26, 5388-5399	4.8	7
31	Synthetic Strategies Directed Towards 5a-Carbahexopyranoses and Derivatives Based on 6-endo-trig Radical Cyclizations. <i>European Journal of Organic Chemistry</i> , 2011 , 2011, 7116-7132	3.2	6
30	Synthesis of Furanosyl C-1 Glycals through Palladium-Catalyzed Reactions of a Furanosyl 2,3-Anhydro-exo-glycal. <i>European Journal of Organic Chemistry</i> , 2009 , 2009, 4627-4636	3.2	6
29	Stereocontrolled entry to 2,5-disubstituted tetrahydrofurans from hex-2-enono- β -Lactones under mild conditions. <i>Tetrahedron Letters</i> , 1992 , 33, 5105-5106	2	6
28	Intramolecular Diels-Alder reactions on pyranose trienes. Stereoselective access to bis-annulated pyranosides.. <i>Tetrahedron Letters</i> , 1990 , 31, 2301-2304	2	6
27	A Malonyl-Based Scaffold for Conjugatable Multivalent Carbohydrate-BODIPY Presentations. <i>Molecules</i> , 2019 , 24,	4.8	5
26	Diversity-Oriented Synthetic Endeavors of Newly Designed Ferrier and Ferrier-Nicholas Systems Derived from 1-C-Alkynyl-2-deoxy-2-C-Methylene Pyranosides. <i>European Journal of Organic Chemistry</i> , 2018 , 2018, 5355-5374	3.2	5
25	Solvent-Sensitive Emitting Urea-Bridged bis-BODIPYs: Ready Access by a One-Pot Tandem Staudinger/Aza-Wittig Ureation. <i>Chemistry - A European Journal</i> , 2017 , 23, 17511-17520	4.8	5
24	Other Methods for Glycoside Synthesis: Sections 5.1 and 5.2381-448		5

23	Chemoselective Conjugate Reduction of α -Unsaturated Esters and Lactones Under Mild Conditions. <i>Synlett</i> , 1991 , 1991, 825-826	2.2	5
22	A route to functionalized branched-chain amino sugars via nitrous acid promoted spiroaziridine formation. <i>Journal of Organic Chemistry</i> , 1988 , 53, 4616-4618	4.2	5
21	A Simple Synthesis of 4-Amino-6-aryl-2-thioxotetra- and -hexahydropyrimidines. <i>Synthesis</i> , 1985 , 1985, 89-92	2.9	5
20	Pyranose glycols in the generation of skeletal diversity. <i>Carbohydrate Chemistry</i> , 26-58	3	5
19	Access to 2,6-Dipropargylated BODIPYs as "Clickable" Congeners of Pyrromethene-567 Dye: Photostability and Synthetic Versatility. <i>Organic Letters</i> , 2021 , 23, 6801-6806	6.2	5
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17	Glycosyl fluorides from n-pentenyl-related glycosyl donors: Application to glycosylation strategies. <i>Canadian Journal of Chemistry</i> , 2013 , 91, 51-65	0.9	4
16	A Concise Route to Water-Soluble 2,6-Disubstituted BODIPY-Carbohydrate Fluorophores by Direct Ferrier-Type C-Glycosylation. <i>Journal of Organic Chemistry</i> , 2021 , 86, 9181-9188	4.2	4
15	Ferrier-Nicholas Cations from C-3-Alkynylglycols: Access to C-3-Branched Allylic Glycosides and Ring-Opening Derivatives. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 2501-2511	3.2	3
14	Tuning the Photonic Behavior of Symmetrical bis-BODIPY Architectures: The Key Role of the Spacer Moiety. <i>Frontiers in Chemistry</i> , 2019 , 7, 801	5	3
13	Sugar Furanoses as Useful Handles for Molecular Diversity. <i>Current Organic Synthesis</i> , 2014 , 11, 342-360	1.9	3
12	Bringing Color to Sugars: The Chemical Assembly of Carbohydrates to BODIPY Dyes. <i>Chemical Record</i> , 2021 , 21, 3112-3130	6.6	3
11	Ferrier-Nicholas pyranosidic cations: application to diversity-oriented synthesis. <i>Pure and Applied Chemistry</i> , 2014 , 86, 1357-1364	2.1	2
10	O-Glycosyl Donors 2008 , 565-659		2
9	Template Directed Cyclo-Glycosylation: A Convenient Approach to Unsymmetrical Isophthalic Disaccharide Esters. Influence of the Spacer in the Stereochemistry of the Glycosylation. <i>Synlett</i> , 2000 , 2000, 22-26	2.2	2
8	Pyranose-Derived Dienes and Conjugated Enals. <i>ACS Symposium Series</i> , 1992 , 33-49	0.4	2
7	A Concise Synthesis of a BODIPY-Labeled Tetrasaccharide Related to the Antitumor PI-88. <i>Molecules</i> , 2021 , 26,	4.8	2
6	Carbohydrates and BODIPYs: access to bioconjugatable and water-soluble BODIPYs. <i>Pure and Applied Chemistry</i> , 2019 , 91, 1073-1083	2.1	1

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|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|
| 5 | Synthesis of Geminal Alkyl and Equatorially Functionalized Geminal Alkyl Derivatives of Hexopyranosides by Carbopalladation. <i>Journal of Carbohydrate Chemistry</i> , 1989 , 8, 429-441 | 1.7 | 1 |
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| 1 | Reactions at Oxygen Atoms 2001 , 467-500 | | |