Alexei V Demchenko

List of Publications by Year
in descending order

186	7,878	50276	62596
papers	citations	46 h-index	80 g-index

229	229	229	3793
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stereocontrolled 1,2-cis glycosylation as the driving force of progress in synthetic carbohydrate chemistry. Chemical Science, 2015, 6, 2687-2704.	7.4	358
2	Recent Advances inO-Sialylation. Chemical Reviews, 2000, 100, 4539-4566.	47.7	339
3	Mechanism of chemical O-glycosylation: from early studies to recent discoveries. Organic and Biomolecular Chemistry, 2010, 8, 497-510.	2.8	240
4	Automated Chemical Oligosaccharide Synthesis: Novel Approach to Traditional Challenges. Chemical Reviews, 2018, 118, 8105-8150.	47.7	238
5	Effect of Remote Picolinyl and Picoloyl Substituents on the Stereoselectivity of Chemical Glycosylation. Journal of the American Chemical Society, 2012, 134, 20097-20102.	13.7	235
6	Surface area and pore size characteristics of nanoporous gold subjected to thermal, mechanical, or surface modification studied using gas adsorption isotherms, cyclic voltammetry, thermogravimetric analysis, and scanning electron microscopy. Journal of Materials Chemistry, 2012, 22, 6733.	6.7	213
7	Noninvasive photoacoustic computed tomography of mouse brain metabolism in vivo. NeuroImage, 2013, 64, 257-266.	4.2	199
8	Recent trends in the synthesis of O-glycosides of 2-amino-2-deoxysugars. Carbohydrate Research, 2007, 342, 374-406.	2.3	190
9	1,2-cis O-Glycosylation: Methods, Strategies, Principles. Current Organic Chemistry, 2003, 7, 35-79.	1.6	179
10	Stereoselective 1,2-cis-galactosylation assisted by remote neighboring group participation and solvent effects. Tetrahedron Letters, 1999, 40, 6523-6526.	1.4	175
11	Solvent and Other Effects on the Stereoselectivity of Thioglycoside Glycosidations. Synlett, 1997, 1997, 818-820.	1.8	161
12	Stereoselective Chemical 1,2-cis O-Glycosylation: From â€˜Sugar Rayâ€™ to Modern Techniques of the 21st Century. Synlett, 2003, 2003, 1225.	1.8	161
13	Hydrogen-Bond-Mediated Aglycone Delivery: Focus on Î²-Mannosylation. Organic Letters, 2014, 16, 716-719.	4.6	138
14	A Stereoselective Approach for the Synthesis of Î±-Sialosides. Journal of Organic Chemistry, 2001, 66, 5490-5497.	3.2	134
15	Mechanism of Chemical Glycosylation: Focus on the Mode of Activation and Departure of Anomeric Leaving Groups. Journal of Carbohydrate Chemistry, 2013, 32, 1-43.	1.1	127
16	S-Benzoxazolyl (SBox) Glycosides as Novel, Versatile Glycosyl Donors for Stereoselective 1,2-Cis Glycosylation. Organic Letters, 2003, 5, 455-458.	4.6	121
17	Development of an Arming Participating Group for Stereoselective Glycosylation and Chemoselective Oligosaccharide Synthesis. Angewandte Chemie - International Edition, 2005, 44, 7123-7126.	13.8	120
18	A novel and versatile glycosyl donor for the preparation of glycosides of N-acetylneuraminic acid. Tetrahedron Letters, 1998, 39, 3065-3068.	1.4	119

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19	Potent, Versatile, and Stable: Thiazolyl Thioglycosides as Glycosyl Donors. Angewandte Chemie - International Edition, 2004, 43, 3069-3072.	13.8	118
20	Chapter 5 Oligosaccharide Synthesis: From Conventional Methods to Modern Expeditious Strategies. Advances in Carbohydrate Chemistry and Biochemistry, 2009, 62, 161-250.	0.9	108
21	Revisiting the Armedâ^'Disarmed Concept Rationale:â€‰S-Benzoxazolyl Glycosides in Chemoselective Oligosaccharide Synthesisâ€. Organic Letters, 2005, 7, 3215-3218.	4.6	98
22	A Novel Direct Glycosylation Approach for the Synthesis of Dimers ofN-Acetylneuraminic Acid. Chemistry - A European Journal, 1999, 5, 1278-1283.	3.3	97
23	Preparation and Characterization of Porous Gold and Its Application as a Platform for Immobilization of Acetylcholine Esterase. Chemistry of Materials, 2007, 19, 3902-3911.	6.7	95
24	S-Thiazolinyl (STaz) Glycosides as Versatile Building Blocks for Convergent Selective, Chemoselective, and Orthogonal Oligosaccharide Synthesis. Chemistry - A European Journal, 2006, 12, 6630-6646.	3.3	94
25	Hydrogen Bond Mediated Aglycone Delivery: Synthesis of Linear and Branched Î±â€Glucans. Angewandte Chemie - International Edition, 2014, 53, 10453-10456.	13.8	86
26	HPLC-Assisted Automated Oligosaccharide Synthesis. Organic Letters, 2012, 14, 3036-3039.	4.6	85
27	Superarming the S-Benzoxazolyl Glycosyl Donors by Simple 2-O-Benzoyl-3,4,6-tri-O-benzyl Protection. Organic Letters, 2008, 10, 2103-2106.	4.6	84
28	Application of the Superarmed Glycosyl Donor to Chemoselective Oligosaccharide Synthesis. Organic Letters, 2008, 10, 2107-2110.	4.6	77
29	Superarming Common Glycosyl Donors by Simple 2-O-Benzoyl-3,4,6-tri-O-benzyl Protection. Journal of Organic Chemistry, 2010, 75, 1095-1100.	3.2	71
30	Expeditious oligosaccharide synthesis via selective, semi-orthogonal, and orthogonal activation. Carbohydrate Research, 2011, 346, 1371-1388.	2.3	66
31	How the Arming Participating Moieties can Broaden the Scope of Chemoselective Oligosaccharide Synthesis by Allowing the Inverse Armedâ^'Disarmed Approach. Journal of Organic Chemistry, 2008, 73, 8838-8850.	3.2	65
32	Glycosyl Alkoxythioimidates as Complementary Building Blocks for Chemical Glycosylation. Organic Letters, 2010, 12, 5628-5631.	4.6	63
33	Psychosine, the cytotoxic sphingolipid that accumulates in globoid cell leukodystrophy, alters membrane architecture. Journal of Lipid Research, 2013, 54, 3303-3311.	4.2	61
34	Highlights in Organic Chemistry (Strategic Approach to the Chemical Synthesis of Oligosaccharides). Letters in Organic Chemistry, 2005, 2, 580-589.	0.5	61
35	Versatile Synthesis and Mechanism of Activation ofS-Benzoxazolyl Glycosides. Journal of Organic Chemistry, 2007, 72, 6938-6946.	3.2	60
36	Preparation, Modification, Characterization, and Biosensing Application of Nanoporous Gold Using Electrochemical Techniques. Nanomaterials, 2018, 8, 171.	4.1	60

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37	Detection of free prostate specific antigen (fPSA) on a nanoporous gold platform. Analyst, The, 2008, 133, 319.	3.5	58
38	Remote Participation-Assisted Synthesis of ?-Mannosides. European Journal of Organic Chemistry, 2005, 2005, 706-711.	2.4	57
39	Hydrogenâ€Bondâ€Mediated Aglycone Delivery (HAD): A Highly Stereoselective Synthesis of 1,2â€cisÎ±â€<scp>D</scp>â€Glucosides from Common Glycosyl Donors in the Presence of Bromine. Chemistry - A European Journal, 2015, 21, 6572-6581.	3.3	56
40	A new stereospecific method for 1,2-cis-glycosylation. Carbohydrate Research, 1991, 212, 77-91.	2.3	55
41	Semi-orthogonality of O-pentenyl and S-ethyl glycosides: application for the oligosaccharide synthesis. Tetrahedron Letters, 2002, 43, 8819-8822.	1.4	55
42	In vivo imaging of epileptic activity using 2-NBDG, a fluorescent deoxyglucose analog. Journal of Neuroscience Methods, 2012, 203, 136-140.	2.5	53
43	Glycosidation of Thioglycosides in the Presence of Bromine: Mechanism, Reactivity, and Stereoselectivity. Journal of Organic Chemistry, 2012, 77, 291-299.	3.2	51
44	Regenerative Glycosylation under Nucleophilic Catalysis. Journal of the American Chemical Society, 2014, 136, 921-923.	13.7	48
45	Synthesis of carbohydrate building blocksviaregioselective uniform protection/deprotection strategies. Organic and Biomolecular Chemistry, 2019, 17, 4934-4950.	2.8	48
46	Glycosyl thioimidates in a highly convergent one-pot strategy for oligosaccharide synthesis. Tetrahedron: Asymmetry, 2005, 16, 433-439.	1.8	47
47	S-Benzoxazolyl (SBox) Glycosides in Oligosaccharide Synthesis: Novel Glycosylation Approach to the Synthesis of Î²-d-Glucosides, Î²-d-Galactosides, and Î±-d-Mannosides. Synlett, 2003, 2003, 1287.	1.8	46
48	A Novel Strategy for Oligosaccharide Synthesis via Temporarily DeactivatedS-Thiazolyl Glycosides as Glycosyl Acceptors. Organic Letters, 2004, 6, 4515-4518.	4.6	46
49	A Highly Convergent Synthesis of a Complex Oligosaccharide Derived from Group B Type IIIStreptococcus. Journal of Organic Chemistry, 2001, 66, 2547-2554.	3.2	45
50	Synthesis and Biological Evaluation of Rhizobium sin-1 Lipid A Derivatives. Journal of the American Chemical Society, 2003, 125, 6103-6112.	13.7	44
51	Sâ€Benzimidazolyl Glycosides as a Platform for Oligosaccharide Synthesis by an Activeâ€“Latent Strategy. Angewandte Chemie - International Edition, 2011, 50, 4197-4201.	13.8	44
52	Unexpected Orthogonality of S-Benzoxazolyl and S-Thiazolinyl Glycosides: Application to Expeditious Oligosaccharide Assembly. Organic Letters, 2009, 11, 799-802.	4.6	43
53	HPLC-Assisted Automated Oligosaccharide Synthesis: Implementation of the Autosampler as a Mode of the Reagent Delivery. Journal of Organic Chemistry, 2016, 81, 8796-8805.	3.2	41
54	Characterization of protein immobilization on nanoporous gold using atomic force microscopy and scanning electron microscopy. Nanoscale, 2011, 3, 3395.	5.6	40

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55	Superarmed and Superdisarmed Building Blocks in Expeditious Oligosaccharide Synthesis. Topics in Current Chemistry, 2010, 301, 189-221.	4.0	39
56	STICS: surface-tethered iterative carbohydrate synthesis. Chemical Communications, 2009, , 1834.	4.1	37
57	Direct Synthesis of Diastereomerically Pure Glycosyl Sulfonium Salts. Organic Letters, 2011, 13, 2928-2931.	4.6	37
58	How O-Substitution of Sialyl Donors Affects Their Stereoselectivity. Organic Letters, 2012, 14, 1126-1129.	4.6	36
59	Synthesis and Glycosidation of Anomeric Halides: Evolution from Early Studies to Modern Methods of the 21st Century. Chemical Reviews, 2022, 122, 11701-11758.	47.7	34
60	Silver(I) tetrafluoroborate as a potent promoter for chemical glycosylation. Tetrahedron Letters, 2008, 49, 1542-1545.	1.4	33
61	6-O-Picolinyl and 6-O-Picoloyl Building Blocks As Glycosyl Donors with Switchable Stereoselectivity. Organic Letters, 2015, 17, 4448-4451.	4.6	33
62	Nanoporous gold as a solid support for protein immobilization and development of an electrochemical immunoassay for prostate specific antigen and carcinoembryonic antigen. Mikrochimica Acta, 2012, 179, 71-81.	5.0	32
63	Acetal Protecting Groups in the Organic Laboratory: Synthesis of Methyl 4,6-O-Benzylidene-Î±-D-Glucopyranoside. Journal of Chemical Education, 2006, 83, 782.	2.3	30
64	Chemoselective Synthesis of Oligosaccharides of 2-Deoxy-2-aminosugars. Journal of Organic Chemistry, 2007, 72, 1480-1483.	3.2	30
65	From Stereocontrolled Glycosylation to Expeditious Oligosaccharide Synthesis. Trends in Glycoscience and Glycotechnology, 2013, 25, 13-42.	0.1	30
66	Intramolecular glycosylation. Beilstein Journal of Organic Chemistry, 2017, 13, 2028-2048.	2.2	30
67	S-Benzoxazolyl as a Stable Protecting Moiety and a Potent Anomeric Leaving Group in Oligosaccharide Synthesis. Journal of Organic Chemistry, 2007, 72, 6947-6955.	3.2	29
68	The chemical synthesis of human milk oligosaccharides: Lacto-N-tetraose (GalÎ²1â†'3GlcNAcÎ²1â†'3GalÎ²1â†'4Glc). Carbohydrate Research, 2019, 486, 107824.	2.3	29
69	Application of Glycosyl Thioimidates in Solid-Phase Oligosaccharide Synthesis. Journal of Organic Chemistry, 2008, 73, 1716-1725.	3.2	28
70	Regenerative Glycosylation. Journal of Organic Chemistry, 2018, 83, 374-381.	3.2	28
71	A highly convergent synthesis of a hexasaccharide derived from the oligosaccharide of group B type III Streptococcus. Tetrahedron Letters, 1997, 38, 1629-1632.	1.4	27
72	Experimental and Theoretical Study of the Structures and Enthalpies of Formation of the Synthetic Reagents 1,3-Thiazolidine-2-thione and 1,3-Oxazolidine-2-thione. Journal of Physical Chemistry A, 2009, 113, 10772-10778.	2.5	27

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73	A Concise Synthesis of the Repeating Unit of Capsular Polysaccharide Staphylococcus aureus Type 8. Organic Letters, 2015, 17, 2382-2384.	4.6	27
74	Triflic acid-mediated synthesis of thioglycosides. Organic and Biomolecular Chemistry, 2019, 17, 8379-8383.	2.8	27
75	Synthesis, Glycosidation, and Hydrolytic Stability of Novel Glycosyl Thioimidates. Journal of Carbohydrate Chemistry, 2005, 24, 649-663.	1.1	26
76	On Orthogonal and Selective Activation of Glycosyl Thioimidates and Thioglycosides: Application to Oligosaccharide Assembly. Journal of Organic Chemistry, 2011, 76, 7388-7398.	3.2	26
77	Superarming of Glycosyl Donors by Combined Neighboring and Conformational Effects. Organic Letters, 2013, 15, 4904-4907.	4.6	26
78	Electrochemical synthesis of nanostructured gold film for the study of carbohydrateâ€“lectin interactions using localized surface plasmon resonance spectroscopy. Carbohydrate Research, 2015, 405, 55-65.	2.3	25
79	The chemical synthesis of human milk oligosaccharides: Lacto-N-neotetraose (GalÎ²1â†'4GlcNAcÎ²1â†'3GalÎ²1â†'4Glc). Carbohydrate Research, 2019, 483, 107743.	2.3	25
80	Experimental and Theoretical Study of the Structures and Enthalpies of Formation of 3H-1,3-Benzoxazole-2-thione, 3H-1,3-Benzothiazole-2-thione, and Their Tautomers. Journal of Physical Chemistry A, 2010, 114, 6336-6341.	2.5	24
81	Comparative Study of the Binding of Concanavalin A to Self-Assembled Monolayers Containing a Thiolated Î±-Mannoside on Flat Gold and on Nanoporous Gold. Journal of Carbohydrate Chemistry, 2012, 31, 466-503.	1.1	24
82	Glycosyl thioimidates as versatile building blocks for organic synthesis. Chemistry of Heterocyclic Compounds, 2012, 48, 220-240.	1.2	24
83	O-Benzoxazolyl imidates as versatile glycosyl donors for chemical glycosylation. Organic and Biomolecular Chemistry, 2013, 11, 4068.	2.8	24
84	Square-wave voltammetry assays for glycoproteins on nanoporous gold. Journal of Electroanalytical Chemistry, 2014, 717-718, 47-60.	3.8	24
85	HPLC-assisted automated oligosaccharide synthesis: the implementation of the two-way split valve as a mode of complete automation. Chemical Communications, 2020, 56, 1333-1336.	4.1	23
86	Selective capture of glycoproteins using lectin-modified nanoporous gold monolith. Journal of Chromatography A, 2015, 1423, 19-30.	3.7	22
87	Iron(<scp>iii</scp>) chloride-catalyzed activation of glycosyl chlorides. Organic and Biomolecular Chemistry, 2018, 16, 9133-9137.	2.8	21
88	Koenigsâ€“Knorr Glycosylation Reaction Catalyzed by Trimethylsilyl Trifluoromethanesulfonate. Chemistry - A European Journal, 2019, 25, 1461-1465.	3.3	21
89	Stereospecific 1,2-cis-glycosylation: a modified thiocyanate method. Carbohydrate Research, 1992, 232, C1-C5.	2.3	20
90	2-Allylphenyl glycosides as complementary building blocks for oligosaccharide and glycoconjugate synthesis. Beilstein Journal of Organic Chemistry, 2012, 8, 597-605.	2.2	20

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91	Electrochemical annealing of nanoporous gold by application of cyclic potential sweeps. Nanotechnology, 2015, 26, 085602.	2.6	20
92	Staphylococcus aureuscapsular polysaccharides: a structural and synthetic perspective. Organic and Biomolecular Chemistry, 2020, 18, 783-798.	2.8	20
93	Stereospecific synthesis of 1,2-cis-glycosides of 2-amino sugars. Carbohydrate Research, 1993, 242, C7-C10.	2.3	19
94	Efficient stereoselective synthesis of oligosaccharides of Streptococcus pneumoniae serotypes 6A and 6B containing multiple 1,2-cis glycosidic linkages. Tetrahedron, 2007, 63, 10083-10091.	1.9	19
95	Coordination chemistry approach to the long-standing challenge of stereocontrolled chemical glycosylation. Chemical Communications, 2009, , 6379.	4.1	19
96	On the stereoselectivity of glycosidation of thiocyanates, thioimidates, and thioglycosides. Carbohydrate Research, 2010, 345, 2146-2150.	2.3	19
97	Comparison of the Armed/Disarmed Building Blocks of the d-Gluco and d-Glucosamino Series in the Context of Chemoselective Oligosaccharide Synthesis. Organic Letters, 2010, 12, 3078-3081.	4.6	19
98	Synthesis, Conjugation, and Immunological Evaluation of the Serogroup 6 Pneumococcal Oligosaccharides. ChemBioChem, 2009, 10, 2893-2899.	2.6	18
99	Surface-Tethered Iterative Carbohydrate Synthesis: A Spacer Study. Journal of Organic Chemistry, 2013, 78, 6849-6857.	3.2	18
100	Identification of a Simple Chemical Structure Associated with Protective Human Antibodies against Multiple Pneumococcal Serogroups. Infection and Immunity, 2009, 77, 3374-3379.	2.2	17
101	Lectinâ€“carbohydrate interactions on nanoporous gold monoliths. New Journal of Chemistry, 2013, 37, 2150.	2.8	17
102	Electrochemical impedance spectroscopy study of Concanavalin A binding to self-assembled monolayers of mannosides on gold wire electrodes. Journal of Electroanalytical Chemistry, 2016, 780, 311-320.	3.8	17
103	A Highly Efficient Glycosidation of Glycosyl Chlorides by Using Cooperative Silver(I) Oxideâ€“Triflic Acid Catalysis. Chemistry - A European Journal, 2020, 26, 8053-8063.	3.3	17
104	Templated Oligosaccharide Synthesis: The Linker Effect on the Stereoselectivity of Glycosylation. Organic Letters, 2016, 18, 2316-2319.	4.6	16
105	Electrochemical impedance spectroscopy study of carbohydrate-terminated alkanethiol monolayers on nanoporous gold: Implications for pore wetting. Journal of Electroanalytical Chemistry, 2016, 782, 174-181.	3.8	16
106	OFox imidates as versatile glycosyl donors for chemical glycosylation. Organic and Biomolecular Chemistry, 2017, 15, 348-359.	2.8	16
107	Manual and Automated Syntheses of the N-Linked Glycoprotein Core Glycans. Journal of Organic Chemistry, 2019, 84, 6576-6588.	3.2	16
108	Chemical Synthesis of Human Milk Oligosaccharides: Lacto-N-hexaose GalÎ²1â†'3GlcNAcÎ²1â†'3 [GalÎ²1â†'4GlcNAcÎ²1â†'6] GalÎ²1â†'4Glc. Journal of Organic Chemistry, 2019, 84, 16192-16198.	3.2	16

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109	Synthesis of Î²â€Glucosides with 3â€Oâ€Picoloylâ€Protected Glycosyl Donors in the Presence of Excess Triflic Acid: A Mechanistic Study. Chemistry - A European Journal, 2020, 26, 2927-2937.	3.3	16
110	Chemical synthesis of human milk oligosaccharides: lacto-N-neohexaose (GalÎ²1 â†') Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td	2.8	16
111	Glycosyl Thioimidates as Versatile Glycosyl Donors for Stereoselective O-Glycosylation and Convergent Oligosaccharide Synthesis. ACS Symposium Series, 2007, , 165-189.	0.5	15
112	4-(Pyridin-2-yl)thiazol-2-yl thioglycosides as bidentate ligands for oligosaccharide synthesis via temporary deactivation. Chemical Communications, 2008, , 5633.	4.1	15
113	Synthesis, characterization and reactivity of carbohydrate platinum(iv) complexes with thioglycoside ligands. Dalton Transactions, 2010, 39, 6327.	3.3	15
114	Energetics of the Lighter Chalcogen Analogues of Carboxylic Acid Esters. Journal of Physical Chemistry B, 2010, 114, 16253-16262.	2.6	15
115	Synthesis of the Repeating Unit of Capsular Polysaccharide Staphylococcus aureus Type 5 To Study Chemical Activation and Conjugation of Native CP5. Journal of Organic Chemistry, 2016, 81, 5981-5987.	3.2	15
116	A versatile approach to the synthesis of mannosamine glycosides. Organic and Biomolecular Chemistry, 2020, 18, 6682-6695.	2.8	14
117	Thermophysical properties in medium temperature range of several thio and dithiocarbamates. Journal of Thermal Analysis and Calorimetry, 2008, 91, 471-475.	3.6	13
118	Reverse orthogonal strategy for oligosaccharide synthesis. Chemical Communications, 2011, 47, 10602.	4.1	13
119	2-Acylamido Analogues of N-Acetylglucosamine Prime Formation of Chitin Oligosaccharides by Yeast Chitin Synthase 2. Journal of Biological Chemistry, 2014, 289, 12835-12841.	3.4	13
120	Investigation of the H-bond-mediated aglycone delivery reaction in application to the synthesis of Î²-glucosides. Carbohydrate Research, 2018, 470, 1-7.	2.3	13
121	Defining the Scope of the Acidâ€Catalyzed Glycosidation of Glycosyl Bromides. Chemistry - A European Journal, 2020, 26, 1042-1051.	3.3	13
122	Stereocontrolled Î±-Galactosylation under Cooperative Catalysis. Journal of Organic Chemistry, 2020, 85, 15936-15944.	3.2	13
123	Synthesis of polysaccharides with 1,2-cis-glycosidic linkages by tritylthiocyanate polycondensation. Stereoregular Î±-(1-6)-D-glucan. Tetrahedron Letters, 1992, 33, 381-384.	1.4	12
124	Synthesis of spacer-containing analogs of serogroup 6 pneumococcal oligosaccharides. Carbohydrate Research, 2008, 343, 1707-1717.	2.3	12
125	Electrochemical characterization of globotriose-containing self-assembled monolayers on nanoporous gold and their binding of soybean agglutinin. Carbohydrate Research, 2013, 373, 9-17.	2.3	12
126	S-Benzimidazolyl (SBiz) Imidates as a Platform for Oligosaccharide Synthesis via Activeâ€“Latent, Armedâ€“Disarmed, Selective, and Orthogonal Activations. Journal of Organic Chemistry, 2017, 82, 1904-1911.	3.2	12

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127	Conformationally superarmed S-ethyl glycosyl donors as effective building blocks for chemoselective oligosaccharide synthesis in one pot. Organic and Biomolecular Chemistry, 2017, 15, 559-563.	2.8	12
128	Bismuth(<scp>iii</scp>) triflate as a novel and efficient activator for glycosyl halides. Organic and Biomolecular Chemistry, 2021, 19, 3220-3233.	2.8	12
129	Glycoside Synthesis from Anomeric Halides. , 0, , 29-93.		11
130	2,3-Di-O-picolinyl building blocks as glycosyl donors with switchable stereoselectivity. Organic and Biomolecular Chemistry, 2016, 14, 3159-3169.	2.8	11
131	Immobilization of glycans on solid surfaces for application in glycomics. Journal of Carbohydrate Chemistry, 2018, 37, 225-249.	1.1	11
132	Nickel(II) Chloride-Mediated Regioselective Benzylation and Benzoylation of Diequatorial Vicinal Diols. Synlett, 2004, 2004, 2191-2193.	1.8	10
133	The Chemistry of Sialic Acid. , 2005, , 55-102.		10
134	Synthesis of cancer-associated glycoantigens: stage-specific embryonic antigen 3 (SSEA-3). Carbohydrate Research, 2006, 341, 1458-1466.	2.3	10
135	Concise Synthesis of the Unnatural Sphingosine and Psychosine Enantiomer. European Journal of Organic Chemistry, 2010, 2010, 3269-3274.	2.4	10
136	Development of LPS antagonistic therapeutics: synthesis and evaluation of glucopyranoside-spacer-amino acid motifs. RSC Advances, 2011, 1, 83.	3.6	10
137	Self-Assembled Monolayers of Carbohydrate Derivatives on Gold Surfaces. , 0, , .		10
138	Bromineâ€Promoted Glycosidation of Conformationally Superarmed Thioglycosides. Chemistry - A European Journal, 2019, 25, 11831-11836.	3.3	10
139	Picoloyl protecting group in synthesis: focus on a highly chemoselective catalytic removal. Organic and Biomolecular Chemistry, 2020, 18, 4863-4871.	2.8	10
140	The development of a dedicated polymer support for the solid-phase oligosaccharide synthesis. Chemical Communications, 2020, 56, 10568-10571.	4.1	9
141	Transitionâ€Metalâ€Mediated Glycosylation with Thioglycosides. Chemistry - A European Journal, 2022, 28, .	3.3	9
142	Knowledge of a Molecule: An Experimental and Theoretical Study of the Structure and Enthalpy of Formation of Tetrahydro-2H-1,3-oxazine-2-thione. Journal of Chemical & Engineering Data, 2011, 56, 4725-4732.	1.9	8
143	Modulating LPS Signal Transduction at the LPS Receptor Complex with Synthetic Lipid A Analogues. Advances in Carbohydrate Chemistry and Biochemistry, 2014, 71, 339-389.	0.9	8
144	Synthesis of D-FucNAc-D-ManNAcA Disaccharides Based On the Capsular Polysaccharides Staphylococcus aureus Type 5 and 8. Journal of Organic Chemistry, 2019, 84, 216-227.	3.2	8

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145	A pH sensitive thiolated Î²-cyclodextrin-modified nanoporous gold for controlled release of doxorubicin. Journal of Drug Delivery Science and Technology, 2020, 60, 101985.	3.0	8
146	Halobenzoyl groups in glycosylation: effect on stereoselectivity and reactivity of glycosyl donors. Russian Chemical Bulletin, 2015, 64, 1107-1118.	1.5	7
147	Glycosyl nitrates in synthesis: streamlined access to glucopyranose building blocks differentiated at C-2. Organic and Biomolecular Chemistry, 2018, 16, 3596-3604.	2.8	7
148	A Streamlined Regenerative Glycosylation Reaction: Direct,â€‰Acidâ€Free Activation of Thioglycosides. Chemistry - A European Journal, 2021, 27, 354-361.	3.3	7
149	A versatile approach to the synthesis of glycans containing mannuronic acid residues. Organic and Biomolecular Chemistry, 2021, 19, 2731-2743.	2.8	7
150	A Comparative Study of Glycosyl Thioimidates as Building Blocks for Chemical Glycosylation. Journal of Carbohydrate Chemistry, 2013, 32, 360-379.	1.1	6
151	Reactive thioglucoside substrates for Î²-glucosidase. Archives of Biochemistry and Biophysics, 2013, 537, 1-4.	3.0	6
152	Glycosyl alkoxythioimidates as building blocks for glycosylation: a reactivity study. Carbohydrate Research, 2015, 403, 115-122.	2.3	6
153	Synthesis of 2-azido-2-deoxy- and 2-acetamido-2-deoxy-D-manno derivatives as versatile building blocks. Carbohydrate Research, 2020, 488, 107900.	2.3	6
154	Synthesis of Î²â€Glucosides with 3â€Oâ€Picoloylâ€Protected Glycosyl Donors in the Presence of Excess Triflic Acid: Defining the Scope. Chemistry - A European Journal, 2020, 26, 2938-2946.	3.3	6
155	Indolylthio Glycosides As Effective Building Blocks for Chemical Glycosylation. Journal of Organic Chemistry, 2020, 85, 15885-15894.	3.2	6
156	Palladium(<scp>ii</scp>)-assisted activation of thioglycosides. Organic and Biomolecular Chemistry, 2021, 19, 2044-2054.	2.8	6
157	HPLCâ€Based Automated Synthesis of Glycans in Solution. Chemistry - A European Journal, 2022, 28, .	3.3	6
158	Investigation of Glycosyl Nitrates as Building Blocks for Chemical Glycosylation. European Journal of Organic Chemistry, 2018, 2018, 6699-6705.	2.4	5
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