

Alexei V Demchenko

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8863536/publications.pdf>

Version: 2024-02-01

186
papers

7,878
citations

50276

46
h-index

62596

80
g-index

229
all docs

229
docs citations

229
times ranked

3793
citing authors

#	ARTICLE	IF	CITATIONS
1	Streamlined access to carbohydrate building blocks: Methyl 2,4,6-tri-O-benzyl- α -D-glucopyranoside. Carbohydrate Research, 2022, 511, 108482.	2.3	4
2	Transition-Metal-Mediated Glycosylation with Thioglycosides. Chemistry - A European Journal, 2022, 28, .	3.3	9
3	Frontispiece: Transition-Metal-Mediated Glycosylation with Thioglycosides. Chemistry - A European Journal, 2022, 28, .	3.3	0
4	Direct Synthesis of Glycans Containing Challenging ManNAcA Residues. Journal of Organic Chemistry, 2022, 87, 271-280.	3.2	4
5	N-Alkylated Analogues of Indolylthio Glycosides as Glycosyl Donors with Enhanced Activation Profile. European Journal of Organic Chemistry, 2022, 2022, .	2.4	2
6	HPLC-Based Automated Synthesis of Glycans in Solution. Chemistry - A European Journal, 2022, 28, .	3.3	6
7	Development of a Simple and Effective Lipid-A Antagonist Based on Computational Prediction. ACS Infectious Diseases, 2022, 8, 1171-1178.	3.8	1
8	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
9	A Streamlined Regenerative Glycosylation Reaction: Direct, Acid-Free Activation of Thioglycosides. Chemistry - A European Journal, 2021, 27, 354-361.	3.3	7
10	Bismuth(III) triflate as a novel and efficient activator for glycosyl halides. Organic and Biomolecular Chemistry, 2021, 19, 3220-3233.	2.8	12
11	Nanoporous Gold Monolith for High Loading of Unmodified Doxorubicin and Sustained Co-Release of Doxorubicin-Rapamycin. Nanomaterials, 2021, 11, 208.	4.1	5
12	HPLC-Based Automated Oligosaccharide Synthesis. , 2021, , 623-636.		3
13	Palladium(II)-assisted activation of thioglycosides. Organic and Biomolecular Chemistry, 2021, 19, 2044-2054.	2.8	6
14	A versatile approach to the synthesis of glycans containing mannuronic acid residues. Organic and Biomolecular Chemistry, 2021, 19, 2731-2743.	2.8	7
15	Recent Advances in Stereocontrolled Mannosylation: Focus on Glycans Comprising Acidic and/or Amino Sugars. Chemical Record, 2021, 21, 3278-3294.	5.8	5
16	Defining the Scope of the Acid-Catalyzed Glycosidation of Glycosyl Bromides. Chemistry - A European Journal, 2020, 26, 1042-1051.	3.3	13
17	<i>Staphylococcus aureus</i> capsular polysaccharides: a structural and synthetic perspective. Organic and Biomolecular Chemistry, 2020, 18, 783-798.	2.8	20
18	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

#	ARTICLE	IF	CITATIONS
19	Synthesis of Î²-Glucosides with 3-O-Picoloyl-Protected Glycosyl Donors in the Presence of Excess Triflic Acid: A Mechanistic Study. <i>Chemistry - A European Journal</i> , 2020, 26, 2927-2937.	3.3	16
20	Synthesis of Î²-Glucosides with 3-O-Picoloyl-Protected Glycosyl Donors in the Presence of Excess Triflic Acid: Defining the Scope. <i>Chemistry - A European Journal</i> , 2020, 26, 2938-2946.	3.3	6
21	Defining the Scope of the Acid-Catalyzed Glycosidation of Glycosyl Bromides. <i>Chemistry - A European Journal</i> , 2020, 26, 963-963.	3.3	5
22	HPLC-assisted automated oligosaccharide synthesis: the implementation of the two-way split valve as a mode of complete automation. <i>Chemical Communications</i> , 2020, 56, 1333-1336.	4.1	23
23	Stereocontrolled Î±-Galactosylation under Cooperative Catalysis. <i>Journal of Organic Chemistry</i> , 2020, 85, 15936-15944.	3.2	13
24	A pH sensitive thiolated Î²-cyclodextrin-modified nanoporous gold for controlled release of doxorubicin. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 60, 101985.	3.0	8
25	The development of a dedicated polymer support for the solid-phase oligosaccharide synthesis. <i>Chemical Communications</i> , 2020, 56, 10568-10571.	4.1	9
26	A versatile approach to the synthesis of mannosamine glycosides. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 6682-6695.	2.8	14
27	Synthesis of oligosaccharide fragments of capsular polysaccharide <i>Staphylococcus aureus</i> type 8. <i>Journal of Carbohydrate Chemistry</i> , 2020, 39, 301-333.	1.1	5
28	Adhesion layer-free attachment of gold on silicon wafer and its application in localized surface plasmon resonance-based biosensing. <i>Sensors and Actuators A: Physical</i> , 2020, 312, 112155.	4.1	5
29	Picoloyl protecting group in synthesis: focus on a highly chemoselective catalytic removal. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 4863-4871.	2.8	10
30	A Highly Efficient Glycosidation of Glycosyl Chlorides by Using Cooperative Silver(I) Oxide-Triflic Acid Catalysis. <i>Chemistry - A European Journal</i> , 2020, 26, 8053-8063.	3.3	17
31	Indolythio Glycosides As Effective Building Blocks for Chemical Glycosylation. <i>Journal of Organic Chemistry</i> , 2020, 85, 15885-15894.	3.2	6
32	Chemical synthesis of human milk oligosaccharides: lacto-N-neohexaose (Gal ² 1- α -Tf) ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 To	2.8	16
33	Hydrogen-bond-mediated aglycone delivery (HAD) and related methods in carbohydrate chemistry. <i>Carbohydrate Chemistry</i> , 2020, , 93-116.	0.3	5
34	Recent Advances in the Application of Glycan-Modified Self-Assembled Monolayers. <i>Advances in Chemistry Research</i> , 2020, 60, 95-119.	0.1	0
35	Bromine-Promoted Glycosidation of Conformationally Superarmed Thioglycosides. <i>Chemistry - A European Journal</i> , 2019, 25, 11831-11836.	3.3	10
36	The chemical synthesis of human milk oligosaccharides: Lacto-N-neotetraose (Gal ² 1- α -4GlcNAc ² 1- α -3Gal ² 1- α -4Glc), <i>Carbohydrate Research</i> , 2019, 483, 107743.	2.3	25

#	ARTICLE	IF	CITATIONS
37	Hydrolysis of Glycosyl Thioimidates by Glycoside Hydrolase Requires Remote Activation for Efficient Activity. <i>Catalysts</i> , 2019, 9, 826.	3.5	5
38	Direct Glycosidation of 2-Azido-2-Deoxyglycosyl Nitrates. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 6413-6416.	2.4	5
39	Triflic acid-mediated synthesis of thioglycosides. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 8379-8383.	2.8	27
40	Carbohydrate Experiments in the Organic Laboratory: A Robust Synthesis and Modification of Thioglycosides. <i>Journal of Chemical Education</i> , 2019, 96, 2322-2325.	2.3	3
41	The chemical synthesis of human milk oligosaccharides: Lacto-N-tetraose (Gal ¹ →3GlcNAc ¹ →3Gal ¹ →4Glc). <i>Carbohydrate Research</i> , 2019, 486, 107824.	2.3	29
42	Manual and Automated Syntheses of the N-Linked Glycoprotein Core Glycans. <i>Journal of Organic Chemistry</i> , 2019, 84, 6576-6588.	3.2	16
43	Synthesis of carbohydrate building blocks via regioselective uniform protection/deprotection strategies. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 4934-4950.	2.8	48
44	Chemical Synthesis of Human Milk Oligosaccharides: Lacto-N-hexaose Gal ¹ →3GlcNAc ¹ →3[Gal ¹ →4GlcNAc ¹ →6] Gal ¹ →4Glc. <i>Journal of Organic Chemistry</i> , 2019, 84, 16192-16198.	3.2	16
45	Synthesis of D-FucNAc-D-ManNAc Disaccharides Based On the Capsular Polysaccharides of <i>Staphylococcus aureus</i> Type 5 and 8. <i>Journal of Organic Chemistry</i> , 2019, 84, 216-227.	3.2	8
46	Koenigs-Knorr Glycosylation Reaction Catalyzed by Trimethylsilyl Trifluoromethanesulfonate. <i>Chemistry - A European Journal</i> , 2019, 25, 1461-1465.	3.3	21
47	Glycosyl nitrates in synthesis: streamlined access to glucopyranose building blocks differentiated at C-2. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 3596-3604.	2.8	7
48	Immobilization of glycans on solid surfaces for application in glycomics. <i>Journal of Carbohydrate Chemistry</i> , 2018, 37, 225-249.	1.1	11
49	Regenerative Glycosylation. <i>Journal of Organic Chemistry</i> , 2018, 83, 374-381.	3.2	28
50	Iron(III) chloride-catalyzed activation of glycosyl chlorides. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 9133-9137.	2.8	21
51	Investigation of the H-bond-mediated aglycone delivery reaction in application to the synthesis of 1 ² -glucosides. <i>Carbohydrate Research</i> , 2018, 470, 1-7.	2.3	13
52	Investigation of Glycosyl Nitrates as Building Blocks for Chemical Glycosylation. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 6699-6705.	2.4	5
53	Automated Chemical Oligosaccharide Synthesis: Novel Approach to Traditional Challenges. <i>Chemical Reviews</i> , 2018, 118, 8105-8150.	47.7	238
54	Preparation, Modification, Characterization, and Biosensing Application of Nanoporous Gold Using Electrochemical Techniques. <i>Nanomaterials</i> , 2018, 8, 171.	4.1	60

#	ARTICLE	IF	CITATIONS
55	S-Benzimidazolyl (SBiz) Imidates as a Platform for Oligosaccharide Synthesis via Active/Latent, Armed/Disarmed, Selective, and Orthogonal Activations. <i>Journal of Organic Chemistry</i> , 2017, 82, 1904-1911.	3.2	12
56	Conformationally superarmed S-ethyl glycosyl donors as effective building blocks for chemoselective oligosaccharide synthesis in one pot. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 559-563.	2.8	12
57	Extending the S-benzimidazolyl (SBiz) platform: N-alkylated SBiz glycosyl donors with the universal activation profile. <i>Pure and Applied Chemistry</i> , 2017, 89, 1321-1331.	1.9	2
58	Ofox imidates as versatile glycosyl donors for chemical glycosylation. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 348-359.	2.8	16
59	Intramolecular glycosylation. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 2028-2048.	2.2	30
60	Picoloyl-Protecting Group in Oligosaccharide Synthesis. , 2017, , 3-10.		1
61	Templated Oligosaccharide Synthesis: Driving Forces and Mechanistic Aspects. <i>Journal of Organic Chemistry</i> , 2016, 81, 12232-12246.	3.2	4
62	Templated Oligosaccharide Synthesis: The Linker Effect on the Stereoselectivity of Glycosylation. <i>Organic Letters</i> , 2016, 18, 2316-2319.	4.6	16
63	Electrochemical impedance spectroscopy study of Concanavalin A binding to self-assembled monolayers of mannosides on gold wire electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2016, 780, 311-320.	3.8	17
64	HPLC-Assisted Automated Oligosaccharide Synthesis: Implementation of the Autosampler as a Mode of the Reagent Delivery. <i>Journal of Organic Chemistry</i> , 2016, 81, 8796-8805.	3.2	41
65	Electrochemical impedance spectroscopy study of carbohydrate-terminated alkanethiol monolayers on nanoporous gold: Implications for pore wetting. <i>Journal of Electroanalytical Chemistry</i> , 2016, 782, 174-181.	3.8	16
66	Synthesis of the Repeating Unit of Capsular Polysaccharide <i>Staphylococcus aureus</i> Type 5 To Study Chemical Activation and Conjugation of Native CP5. <i>Journal of Organic Chemistry</i> , 2016, 81, 5981-5987.	3.2	15
67	2,3-Di-O-picolinyl building blocks as glycosyl donors with switchable stereoselectivity. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 3159-3169.	2.8	11
68	Hydrogen-Bond-Mediated Aglycone Delivery (HAD): A Highly Stereoselective Synthesis of 1,2-cis- α -D-Glucosides from Common Glycosyl Donors in the Presence of Bromine. <i>Chemistry - A European Journal</i> , 2015, 21, 6572-6581.	3.3	56
69	Selective capture of glycoproteins using lectin-modified nanoporous gold monolith. <i>Journal of Chromatography A</i> , 2015, 1423, 19-30.	3.7	22
70	Halobenzoyl groups in glycosylation: effect on stereoselectivity and reactivity of glycosyl donors. <i>Russian Chemical Bulletin</i> , 2015, 64, 1107-1118.	1.5	7
71	Electrochemical annealing of nanoporous gold by application of cyclic potential sweeps. <i>Nanotechnology</i> , 2015, 26, 085602.	2.6	20
72	A Concise Synthesis of the Repeating Unit of Capsular Polysaccharide <i>Staphylococcus aureus</i> Type 8. <i>Organic Letters</i> , 2015, 17, 2382-2384.	4.6	27

#	ARTICLE	IF	CITATIONS
73	Stereocontrolled 1,2-cis glycosylation as the driving force of progress in synthetic carbohydrate chemistry. <i>Chemical Science</i> , 2015, 6, 2687-2704.	7.4	358
74	Automated Chemical Synthesis of Oligosaccharides and Glycoconjugates. , 2015, , 247-276.		3
75	6- <i>O</i> -Picolinyl and 6- <i>O</i> -Picoloyl Building Blocks As Glycosyl Donors with Switchable Stereoselectivity. <i>Organic Letters</i> , 2015, 17, 4448-4451.	4.6	33
76	Glycosyl alkoxythioimidates as building blocks for glycosylation: a reactivity study. <i>Carbohydrate Research</i> , 2015, 403, 115-122.	2.3	6
77	Electrochemical synthesis of nanostructured gold film for the study of carbohydrate-lectin interactions using localized surface plasmon resonance spectroscopy. <i>Carbohydrate Research</i> , 2015, 405, 55-65.	2.3	25
78	Hydrogen Bond Mediated Aglycone Delivery: Synthesis of Linear and Branched Î±-Glucans. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10453-10456.	13.8	86
79	2-Acylamido Analogues of N-Acetylglucosamine Prime Formation of Chitin Oligosaccharides by Yeast Chitin Synthase 2. <i>Journal of Biological Chemistry</i> , 2014, 289, 12835-12841.	3.4	13
80	Modulating LPS Signal Transduction at the LPS Receptor Complex with Synthetic Lipid A Analogues. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 2014, 71, 339-389.	0.9	8
81	Square-wave voltammetry assays for glycoproteins on nanoporous gold. <i>Journal of Electroanalytical Chemistry</i> , 2014, 717-718, 47-60.	3.8	24
82	Regenerative Glycosylation under Nucleophilic Catalysis. <i>Journal of the American Chemical Society</i> , 2014, 136, 921-923.	13.7	48
83	Hydrogen-Bond-Mediated Aglycone Delivery: Focus on Î²-Mannosylation. <i>Organic Letters</i> , 2014, 16, 716-719.	4.6	138
84	Surface-Tethered Iterative Carbohydrate Synthesis: A Spacer Study. <i>Journal of Organic Chemistry</i> , 2013, 78, 6849-6857.	3.2	18
85	Electrochemical characterization of globotriose-containing self-assembled monolayers on nanoporous gold and their binding of soybean agglutinin. <i>Carbohydrate Research</i> , 2013, 373, 9-17.	2.3	12
86	Superarming of Glycosyl Donors by Combined Neighboring and Conformational Effects. <i>Organic Letters</i> , 2013, 15, 4904-4907.	4.6	26
87	A Comparative Study of Glycosyl Thioimidates as Building Blocks for Chemical Glycosylation. <i>Journal of Carbohydrate Chemistry</i> , 2013, 32, 360-379.	1.1	6
88	Psychosine, the cytotoxic sphingolipid that accumulates in globoid cell leukodystrophy, alters membrane architecture. <i>Journal of Lipid Research</i> , 2013, 54, 3303-3311.	4.2	61
89	Mechanism of Chemical Glycosylation: Focus on the Mode of Activation and Departure of Anomeric Leaving Groups. <i>Journal of Carbohydrate Chemistry</i> , 2013, 32, 1-43.	1.1	127
90	Reactive thioglucoside substrates for Î²-glucosidase. <i>Archives of Biochemistry and Biophysics</i> , 2013, 537, 1-4.	3.0	6

#	ARTICLE	IF	CITATIONS
91	O-Benzoxazolyl imidates as versatile glycosyl donors for chemical glycosylation. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 4068.	2.8	24
92	Noninvasive photoacoustic computed tomography of mouse brain metabolism in vivo. <i>NeuroImage</i> , 2013, 64, 257-266.	4.2	199
93	Noninvasive photoacoustic computed tomography of mouse brain metabolism <i>in vivo</i> . <i>Proceedings of SPIE</i> , 2013, , .	0.8	4
94	Lectin-carbohydrate interactions on nanoporous gold monoliths. <i>New Journal of Chemistry</i> , 2013, 37, 2150.	2.8	17
95	From Stereocontrolled Glycosylation to Expedient Oligosaccharide Synthesis. <i>Trends in Glycoscience and Glycotechnology</i> , 2013, 25, 13-42.	0.1	30
96	HPLC-Assisted Automated Oligosaccharide Synthesis. <i>Organic Letters</i> , 2012, 14, 3036-3039.	4.6	85
97	How O-Substitution of Sialyl Donors Affects Their Stereoselectivity. <i>Organic Letters</i> , 2012, 14, 1126-1129.	4.6	36
98	Effect of Remote Picolinyl and Picoloyl Substituents on the Stereoselectivity of Chemical Glycosylation. <i>Journal of the American Chemical Society</i> , 2012, 134, 20097-20102.	13.7	235
99	Glycosidation of Thioglycosides in the Presence of Bromine: Mechanism, Reactivity, and Stereoselectivity. <i>Journal of Organic Chemistry</i> , 2012, 77, 291-299.	3.2	51
100	Comparative Study of the Binding of Concanavalin A to Self-Assembled Monolayers Containing a Thiolated α -Mannoside on Flat Gold and on Nanoporous Gold. <i>Journal of Carbohydrate Chemistry</i> , 2012, 31, 466-503.	1.1	24
101	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. <i>Journal of Materials Chemistry</i> , 2012, 22, 6733.	6.7	213
102	Nanoporous gold as a solid support for protein immobilization and development of an electrochemical immunoassay for prostate specific antigen and carcinoembryonic antigen. <i>Mikrochimica Acta</i> , 2012, 179, 71-81.	5.0	32
103	2-Allylphenyl glycosides as complementary building blocks for oligosaccharide and glycoconjugate synthesis. <i>Beilstein Journal of Organic Chemistry</i> , 2012, 8, 597-605.	2.2	20
104	Glycosyl thioimidates as versatile building blocks for organic synthesis. <i>Chemistry of Heterocyclic Compounds</i> , 2012, 48, 220-240.	1.2	24
105	In vivo imaging of epileptic activity using 2-NBDG, a fluorescent deoxyglucose analog. <i>Journal of Neuroscience Methods</i> , 2012, 203, 136-140.	2.5	53
106	Reverse orthogonal strategy for oligosaccharide synthesis. <i>Chemical Communications</i> , 2011, 47, 10602.	4.1	13
107	Development of LPS antagonistic therapeutics: synthesis and evaluation of glucopyranoside-spacer-amino acid motifs. <i>RSC Advances</i> , 2011, 1, 83.	3.6	10
108	On Orthogonal and Selective Activation of Glycosyl Thioimidates and Thioglycosides: Application to Oligosaccharide Assembly. <i>Journal of Organic Chemistry</i> , 2011, 76, 7388-7398.	3.2	26

#	ARTICLE	IF	CITATIONS
109	Direct Synthesis of Diastereomerically Pure Glycosyl Sulfonium Salts. <i>Organic Letters</i> , 2011, 13, 2928-2931.	4.6	37
110	Characterization of protein immobilization on nanoporous gold using atomic force microscopy and scanning electron microscopy. <i>Nanoscale</i> , 2011, 3, 3395.	5.6	40
111	Knowledge of a Molecule: An Experimental and Theoretical Study of the Structure and Enthalpy of Formation of Tetrahydro-2 <i>H</i> -1,3-oxazine-2-thione. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 4725-4732.	1.9	8
112	Benimidazolyl Glycosides as a Platform for Oligosaccharide Synthesis by an Active-Latent Strategy. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4197-4201.	13.8	44
113	Expeditious oligosaccharide synthesis via selective, semi-orthogonal, and orthogonal activation. <i>Carbohydrate Research</i> , 2011, 346, 1371-1388.	2.3	66
114	Concise synthesis of 1,3-di-O-substituted tetrahydropyran derivatives as conformationally stable pyranose mimetics. <i>Comptes Rendus Chimie</i> , 2011, 14, 301-306.	0.5	2
115	Identification of a Simple Chemical Structure Associated with Protective Human Antibodies against Multiple Pneumococcal Serogroups. <i>Infection and Immunity</i> , 2011, 79, 3472-3472.	2.2	0
116	Concise Synthesis of the Unnatural Sphingosine and Psychosine Enantiomer. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 3269-3274.	2.4	10
117	On the stereoselectivity of glycosidation of thiocyanates, thioimidates, and thioglycosides. <i>Carbohydrate Research</i> , 2010, 345, 2146-2150.	2.3	19
118	Superarmed and Superdisarmed Building Blocks in Expeditious Oligosaccharide Synthesis. <i>Topics in Current Chemistry</i> , 2010, 301, 189-221.	4.0	39
119	Experimental and Theoretical Study of the Structures and Enthalpies of Formation of 3 <i>H</i> -1,3-Benzoxazole-2-thione, 3 <i>H</i> -1,3-Benzothiazole-2-thione, and Their Tautomers. <i>Journal of Physical Chemistry A</i> , 2010, 114, 6336-6341.	2.5	24
120	Comparison of the Armed/Disarmed Building Blocks of the d-Gluco and d-Glucosamino Series in the Context of Chemoselective Oligosaccharide Synthesis. <i>Organic Letters</i> , 2010, 12, 3078-3081.	4.6	19
121	Superarming Common Glycosyl Donors by Simple 2-O-Benzoyl-3,4,6-tri-O-benzyl Protection. <i>Journal of Organic Chemistry</i> , 2010, 75, 1095-1100.	3.2	71
122	Mechanism of chemical O-glycosylation: from early studies to recent discoveries. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 497-510.	2.8	240
123	Glycosyl Alkoxythioimidates as Complementary Building Blocks for Chemical Glycosylation. <i>Organic Letters</i> , 2010, 12, 5628-5631.	4.6	63
124	Synthesis, characterization and reactivity of carbohydrate platinum(IV) complexes with thioglycoside ligands. <i>Dalton Transactions</i> , 2010, 39, 6327.	3.3	15
125	Energetics of the Lighter Chalcogen Analogues of Carboxylic Acid Esters. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16253-16262.	2.6	15
126	Identification of a Simple Chemical Structure Associated with Protective Human Antibodies against Multiple Pneumococcal Serogroups. <i>Infection and Immunity</i> , 2009, 77, 3374-3379.	2.2	17

#	ARTICLE	IF	CITATIONS
127	Synthesis, Conjugation, and Immunological Evaluation of the Serogroup 6 Pneumococcal Oligosaccharides. <i>ChemBioChem</i> , 2009, 10, 2893-2899.	2.6	18
128	Unexpected Orthogonality of S-Benzoxazolyl and S-Thiazolanyl Glycosides: Application to Expeditious Oligosaccharide Assembly. <i>Organic Letters</i> , 2009, 11, 799-802.	4.6	43
129	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. <i>Journal of Physical Chemistry A</i> , 2009, 113, 10772-10778.	2.5	27
130	Chapter 5 Oligosaccharide Synthesis: From Conventional Methods to Modern Expeditious Strategies. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 2009, 62, 161-250.	0.9	108
131	Coordination chemistry approach to the long-standing challenge of stereocontrolled chemical glycosylation. <i>Chemical Communications</i> , 2009, , 6379.	4.1	19
132	STICS: surface-tethered iterative carbohydrate synthesis. <i>Chemical Communications</i> , 2009, , 1834.	4.1	37
133	Thermophysical properties in medium temperature range of several thio and dithiocarbamates. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 91, 471-475.	3.6	13
134	Synthesis of spacer-containing analogs of serogroup 6 pneumococcal oligosaccharides. <i>Carbohydrate Research</i> , 2008, 343, 1707-1717.	2.3	12
135	Silver(I) tetrafluoroborate as a potent promoter for chemical glycosylation. <i>Tetrahedron Letters</i> , 2008, 49, 1542-1545.	1.4	33
136	Application of Glycosyl Thioimidates in Solid-Phase Oligosaccharide Synthesis. <i>Journal of Organic Chemistry</i> , 2008, 73, 1716-1725.	3.2	28
137	4-(Pyridin-2-yl)thiazol-2-yl thioglycosides as bidentate ligands for oligosaccharide synthesis via temporary deactivation. <i>Chemical Communications</i> , 2008, , 5633.	4.1	15
138	Detection of free prostate specific antigen (fPSA) on a nanoporous gold platform. <i>Analyst, The</i> , 2008, 133, 319.	3.5	58
139	Application of the Superarmed Glycosyl Donor to Chemoselective Oligosaccharide Synthesis. <i>Organic Letters</i> , 2008, 10, 2107-2110.	4.6	77
140	How the Arming Participating Moieties can Broaden the Scope of Chemoselective Oligosaccharide Synthesis by Allowing the Inverse Armed~Disarmed Approach. <i>Journal of Organic Chemistry</i> , 2008, 73, 8838-8850.	3.2	65
141	Superarming the <i>S</i>-Benzoxazolyl Glycosyl Donors by Simple 2-<i>O</i>-Benzoyl-3,4,6-tri-<i>O</i>-benzyl Protection. <i>Organic Letters</i> , 2008, 10, 2103-2106.	4.6	84
142	Preparation and Characterization of Porous Gold and Its Application as a Platform for Immobilization of Acetylcholine Esterase. <i>Chemistry of Materials</i> , 2007, 19, 3902-3911.	6.7	95
143	<i>S</i>-Benzoxazolyl as a Stable Protecting Moiety and a Potent Anomeric Leaving Group in Oligosaccharide Synthesis. <i>Journal of Organic Chemistry</i> , 2007, 72, 6947-6955.	3.2	29
144	Chemoselective Synthesis of Oligosaccharides of 2-Deoxy-2-aminosugars. <i>Journal of Organic Chemistry</i> , 2007, 72, 1480-1483.	3.2	30

#	ARTICLE	IF	CITATIONS
145	Versatile Synthesis and Mechanism of Activation of <i>S</i> -Benzoxazolyl Glycosides. <i>Journal of Organic Chemistry</i> , 2007, 72, 6938-6946.	3.2	60
146	Efficient stereoselective synthesis of oligosaccharides of <i>Streptococcus pneumoniae</i> serotypes 6A and 6B containing multiple 1,2-cis glycosidic linkages. <i>Tetrahedron</i> , 2007, 63, 10083-10091.	1.9	19
147	Glycosyl Thioimidates as Versatile Glycosyl Donors for Stereoselective O-Glycosylation and Convergent Oligosaccharide Synthesis. <i>ACS Symposium Series</i> , 2007, , 165-189.	0.5	15
148	Recent trends in the synthesis of O-glycosides of 2-amino-2-deoxysugars. <i>Carbohydrate Research</i> , 2007, 342, 374-406.	2.3	190
149	Acetal Protecting Groups in the Organic Laboratory: Synthesis of Methyl 4,6-O-Benzylidene- β -D-Glucopyranoside. <i>Journal of Chemical Education</i> , 2006, 83, 782.	2.3	30
150	Synthesis of cancer-associated glycoantigens: stage-specific embryonic antigen 3 (SSEA-3). <i>Carbohydrate Research</i> , 2006, 341, 1458-1466.	2.3	10
151	S-Thiazolanyl (STaz) Glycosides as Versatile Building Blocks for Convergent Selective, Chemoselective, and Orthogonal Oligosaccharide Synthesis. <i>Chemistry - A European Journal</i> , 2006, 12, 6630-6646.	3.3	94
152	Remote Participation-Assisted Synthesis of β -Mannosides. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 706-711.	2.4	57
153	Development of an Arming Participating Group for Stereoselective Glycosylation and Chemoselective Oligosaccharide Synthesis. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7123-7126.	13.8	120
154	Glycosyl thioimidates in a highly convergent one-pot strategy for oligosaccharide synthesis. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 433-439.	1.8	47
155	Synthesis, Glycosidation, and Hydrolytic Stability of Novel Glycosyl Thioimidates. <i>Journal of Carbohydrate Chemistry</i> , 2005, 24, 649-663.	1.1	26
156	Revisiting the Armed~Disarmed Concept Rationale: <i>S</i> -Benzoxazolyl Glycosides in Chemoselective Oligosaccharide Synthesis. <i>Organic Letters</i> , 2005, 7, 3215-3218.	4.6	98
157	The Chemistry of Sialic Acid. , 2005, , 55-102.		10
158	Highlights in Organic Chemistry (Strategic Approach to the Chemical Synthesis of Oligosaccharides). <i>Letters in Organic Chemistry</i> , 2005, 2, 580-589.	0.5	61
159	Nickel(II) Chloride-Mediated Regioselective Benzoylation and Benzoylation of Diequatorial Vicinal Diols. <i>Synlett</i> , 2004, 2004, 2191-2193.	1.8	10
160	Potent, Versatile, and Stable: Thiazolyl Thioglycosides as Glycosyl Donors. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3069-3072.	13.8	118
161	A Novel Strategy for Oligosaccharide Synthesis via Temporarily Deactivated <i>S</i> -Thiazolyl Glycosides as Glycosyl Acceptors. <i>Organic Letters</i> , 2004, 6, 4515-4518.	4.6	46
162	1,2-cis O-Glycosylation: Methods, Strategies, Principles. <i>ChemInform</i> , 2003, 34, no.	0.0	0

#	ARTICLE	IF	CITATIONS
163	S-Benzoxazolyl (SBox) Glycosides as Novel, Versatile Glycosyl Donors for Stereoselective 1,2-Cis Glycosylation. <i>Organic Letters</i> , 2003, 5, 455-458.	4.6	121
164	Synthesis and Biological Evaluation of Rhizobium sin-1 Lipid A Derivatives. <i>Journal of the American Chemical Society</i> , 2003, 125, 6103-6112.	13.7	44
165	Stereoselective Chemical 1,2-cis O-Glycosylation: From "Sugar Ray"™ to Modern Techniques of the 21st Century. <i>Synlett</i> , 2003, 2003, 1225.	1.8	161
166	S-Benzoxazolyl (SBox) Glycosides in Oligosaccharide Synthesis: Novel Glycosylation Approach to the Synthesis of β -D-Glucosides, β -D-Galactosides, and β -D-Mannosides. <i>Synlett</i> , 2003, 2003, 1287.	1.8	46
167	1,2-cis O-Glycosylation: Methods, Strategies, Principles. <i>Current Organic Chemistry</i> , 2003, 7, 35-79.	1.6	179
168	Semi-orthogonality of O-pentenyl and S-ethyl glycosides: application for the oligosaccharide synthesis. <i>Tetrahedron Letters</i> , 2002, 43, 8819-8822.	1.4	55
169	A Stereoselective Approach for the Synthesis of β -Sialosides. <i>Journal of Organic Chemistry</i> , 2001, 66, 5490-5497.	3.2	134
170	A Highly Convergent Synthesis of a Complex Oligosaccharide Derived from Group B Type III Streptococcus. <i>Journal of Organic Chemistry</i> , 2001, 66, 2547-2554.	3.2	45
171	Recent Advances in O-Sialylation. <i>Chemical Reviews</i> , 2000, 100, 4539-4566.	47.7	339
172	Stereoselective 1,2-cis-galactosylation assisted by remote neighboring group participation and solvent effects. <i>Tetrahedron Letters</i> , 1999, 40, 6523-6526.	1.4	175
173	A Novel Direct Glycosylation Approach for the Synthesis of Dimers of N-Acetylneuraminic Acid. <i>Chemistry - A European Journal</i> , 1999, 5, 1278-1283.	3.3	97
174	A Novel Direct Glycosylation Approach for the Synthesis of Dimers of N-Acetylneuraminic Acid. <i>Chemistry - A European Journal</i> , 1999, 5, 1278-1283.	3.3	1
175	A novel and versatile glycosyl donor for the preparation of glycosides of N-acetylneuraminic acid. <i>Tetrahedron Letters</i> , 1998, 39, 3065-3068.	1.4	119
176	Solvent and Other Effects on the Stereoselectivity of Thioglycoside Glycosidations. <i>Synlett</i> , 1997, 1997, 818-820.	1.8	161
177	A highly convergent synthesis of a hexasaccharide derived from the oligosaccharide of group B type III Streptococcus. <i>Tetrahedron Letters</i> , 1997, 38, 1629-1632.	1.4	27
178	Stereospecific synthesis of 1,2-cis-glycosides of 2-amino sugars. <i>Carbohydrate Research</i> , 1993, 242, C7-C10.	2.3	19
179	Synthesis of polysaccharides with 1,2-cis-glycosidic linkages by tritylthiocyanate polycondensation. Stereoregular β -(1-6)-D-glucan. <i>Tetrahedron Letters</i> , 1992, 33, 381-384.	1.4	12
180	Stereospecific 1,2-cis-glycosylation: a modified thiocyanate method. <i>Carbohydrate Research</i> , 1992, 232, C1-C5.	2.3	20

#	ARTICLE	IF	CITATIONS
181	A new stereospecific method for 1,2-cis-glycosylation. Carbohydrate Research, 1991, 212, 77-91.	2.3	55
182	Glycoside Synthesis from Anomeric Halides. , 0, , 29-93.		11
183	Other Methods for Glycoside Synthesis: Sections 5.3 and 5.4. , 0, , 449-496.		0
184	A study of silver (I) perchlorate as an effective promoter for chemical glycosylation with thioimidates and thioglycosides. Reports in Organic Chemistry, 0, , 1.	1.0	4
185	Self-Assembled Monolayers of Carbohydrate Derivatives on Gold Surfaces. , 0, , .		10
186	Structure and Applications of Gold in Nanoporous Form. , 0, , .		1