Christian M Pedersen

List of Publications by Year
in descending order

121 papers	4,024 citations	147801 31 h-index	128289 60 g-index
135 all docs	135 docs citations	135 times ranked	3141 citing authors

#	Article	IF	Citations
1	A study of 13CH coupling constants in hexopyranoses. Journal of the Chemical Society Perkin Transactions II, 1974, , 293.	0.9	918
2	Catalytic Glycosylations in Oligosaccharide Synthesis. Chemical Reviews, 2018, 118, 8285-8358.	47.7	199
3	â€œSuper Armedâ€•Glycosyl Donors:Â Conformational Arming of Thioglycosides by Silylation. Journal of the American Chemical Society, 2007, 129, 9222-9235.	13.7	168
4	Mechanisms of Glycosylation Reactions Studied by Low-Temperature Nuclear Magnetic Resonance. Chemical Reviews, 2015, 115, 4963-5013.	47.7	142
5	Direct conversion of chitin biomass to 5-hydroxymethylfurfural in concentrated ZnCl2 aqueous solution. Bioresource Technology, 2013, 143, 384-390.	9.6	132
6	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.	3.2	112
7	Radical substitution with azide: TMSN3â€“PhI(OAc)2as a substitute of IN3. Organic and Biomolecular Chemistry, 2005, 3, 816-822.	2.8	92
8	Going to Extremes: â€œSuperâ€•Armed Glycosyl Donors in Glycosylation Chemistry. Chemistry - A European Journal, 2007, 13, 7576-7582.	3.3	85
9	3â€Deoxyâ€glucosone is an Intermediate in the Formation of Furfurals from <scp>D</scp>â€Glucose.. ChemSusChem, 2011, 4, 1049-1051.	6.8	83
10	Conformationally armed glycosyl donors: reactivity quantification, new donors and one pot reactions. Chemical Communications, 2008, , 2465.	4.1	77
11	Conversion of d-glucose into 5-hydroxymethylfurfural (HMF) using zeolite in [Bmim]Cl or tetrabutylammonium chloride (TBAC)/CrCl2. Tetrahedron Letters, 2012, 53, 983-985.	1.4	70
12	Synthesis of <scp>l</scp>-Hexoses. Chemical Reviews, 2015, 115, 3615-3676.	47.7	68
13	Î²-Selective Mannosylation with a 4,6-Silylene-Tethered Thiomannosyl Donor. Organic Letters, 2014, 16, 1116-1119.	4.6	67
14	Glycosyl donors in â€œunusualâ€•conformations â€“ influence on reactivity and selectivity. Comptes Rendus Chimie, 2011, 14, 17-43.	0.5	66
15	Pyrolysis of chitin biomass: TGâ€“MS analysis and solid char residue characterization. Carbohydrate Polymers, 2015, 133, 163-170.	10.2	61
16	Silyl-protective groups influencing the reactivity and selectivity in glycosylations. Beilstein Journal of Organic Chemistry, 2017, 13, 93-105.	2.2	59
17	Conformationally Armed 3,6-Tethered Glycosyl Donors: Synthesis, Conformation, Reactivity, and Selectivity. Journal of Organic Chemistry, 2013, 78, 7234-7248.	3.2	56
18	Total Synthesis of Lipoteichoic Acid of <i>Streptococcus pneumoniae</i>. Angewandte Chemie - International Edition, 2010, 49, 2585-2590.	13.8	52

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19	Easy Access to <scp>L</scp>â€Mannosides and <scp>L</scp>â€Galactosides by Using Cï£¿H Activation of the Corresponding 6â€Deoxysugars. Angewandte Chemie - International Edition, 2012, 51, 12285-12288.	13.8	50
20	Quantifying Electronic Effects of Common Carbohydrate Protecting Groups in a Piperidine Model System. Chemistry - A European Journal, 2010, 16, 13982-13994.	3.3	48
21	Synthesis of 5â€Bromomethylfurfural from Cellulose as a Potential Intermediate for Biofuel. European Journal of Organic Chemistry, 2011, 2011, 1266-1270.	2.4	43
22	Quantifying the Electronic Effects of Carbohydrate Hydroxy Groups by Using Aminosugar Models. Chemistry - A European Journal, 2011, 17, 7080-7086.	3.3	42
23	Influence of O6 in Mannosylations Using Benzylidene Protected Donors: Stereoelectronic or Conformational Effects?. Journal of Organic Chemistry, 2013, 78, 2191-2205.	3.2	41
24	Rhamnosylation: Diastereoselectivity of Conformationally Armed Donors. Journal of Organic Chemistry, 2012, 77, 5559-5568.	3.2	40
25	Chemical synthesis of bacterial lipoteichoic acids: An insight on its biological significance. Organic and Biomolecular Chemistry, 2011, 9, 2040.	2.8	39
26	Î²-Mannosylation with 4,6-benzylidene protected mannosyl donors without preactivation. Chemical Communications, 2015, 51, 13283-13285.	4.1	36
27	Deep Eutectic Solvents: Green Solvents and Catalysts for the Preparation of Pyrazine Derivatives by Self-Condensation of <scp>d</scp>-Glucosamine. ACS Sustainable Chemistry and Engineering, 2018, 6, 9434-9441.	6.7	35
28	Synthesis of All Eight Stereoisomeric 6â€Deoxyâ€‹<scp>L</scp>â€hexopyranosyl Donors â€“ Trends in Using Stereoselective Reductions or Mitsunobu Epimerizations. European Journal of Organic Chemistry, 2014, 2014, 7924-7939.	2.4	34
29	Câ€“H Functionalization on Carbohydrates. European Journal of Organic Chemistry, 2016, 2016, 2740-2756.	2.4	34
30	Safe radical azidonation using polystyrene supported diazidoiodate(I). Tetrahedron, 2005, 61, 123-127.	1.9	33
31	The Influence of Neighboring Group Participation on the Hydrolysis of 2-O-Substituted Methyl Glucopyranosides. Organic Letters, 2011, 13, 5956-5959.	4.6	32
32	Glucosamine condensation catalyzed by 1-ethyl-3-methylimidazolium acetate: mechanistic insight from NMR spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 23173-23182.	2.8	32
33	Synthesis of All Eight <scp>L</scp>â€Glycopyranosyl Donors Using Cï£¿H Activation. Angewandte Chemie - International Edition, 2014, 53, 13889-13893.	13.8	31
34	DOSY NMR: A Versatile Analytical Chromatographic Tool for Lignocellulosic Biomass Conversion. ACS Sustainable Chemistry and Engineering, 2016, 4, 1193-1200.	6.7	30
35	Human L-Ficolin Recognizes Phosphocholine Moieties of Pneumococcal Teichoic Acid. Journal of Immunology, 2014, 193, 5699-5708.	0.8	27
36	Product Distribution Control for Glucosamine Condensation: Nuclear Magnetic Resonance (NMR) Investigation Substantiated by Density Functional Calculations. Industrial & Engineering Chemistry Research, 2017, 56, 2925-2934.	3.7	27

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37	Synthesis of the Core Structure of the Lipoteichoic Acid of <i>Streptococcus pneumoniae</i>. Chemistry - A European Journal, 2010, 16, 12627-12641.	3.3	26
38	Superarming of Glycosyl Donors by Combined Neighboring and Conformational Effects. Organic Letters, 2013, 15, 4904-4907.	4.6	26
39	NMR studies of stock process water and reaction pathways in hydrothermal carbonization of furfural residue. Green Energy and Environment, 2018, 3, 163-171.	8.7	26
40	Self-promoted and stereospecific formation of <i>N</i>-glycosides. Chemical Science, 2019, 10, 5299-5307.	7.4	25
41	NMR Insights on the Properties of ZnCl₂ Molten Salt Hydrate Medium through Its Interaction with SnCl₄ and Fructose. ACS Sustainable Chemistry and Engineering, 2014, 2, 2576-2581.	6.7	24
42	Catalytic stereospecific O-glycosylation. Chemical Communications, 2017, 53, 2040-2043.	4.1	24
43	In situ NMR spectroscopy: Inulin biomass conversion in ZnCl 2 molten salt hydrate mediumâ€"SnCl 4 addition controls product distribution. Carbohydrate Polymers, 2015, 115, 439-443.	10.2	23
44	Glycosylation intermediates studied using low temperature¹H- and¹⁹F-DOSY NMR: new insight into the activation of trichloroacetimidates. Chemical Communications, 2016, 52, 11418-11421.	4.1	23
45	Mechanism study of Cr(III) immobilization in the process of Cr(VI) removal by Huolinhe lignite. Fuel Processing Technology, 2016, 152, 375-380.	7.2	23
46	Recognition of Peptides by Cyclodextrin Trimers. European Journal of Organic Chemistry, 2011, 2011, 5279-5290.	2.4	22
47	Mechanism of the self-condensation of GlcNH2: insights from in situ NMR spectroscopy and DFT study. Applied Catalysis B: Environmental, 2017, 202, 420-429.	20.2	22
48	NMR Study of the Hydrolysis and Dehydration of Inulin in Water: Comparison of the Catalytic Effect of Lewis Acid SnCl₄ and BrÃ¸nsted Acid HCl. ACS Sustainable Chemistry and Engineering, 2016, 4, 3327-3333.	6.7	20
49	Scalable Synthesis of Anomerically Pure Orthogonal-Protected GlcN3 and GalN3 from d-Glucosamine. Organic Letters, 2016, 18, 4424-4427.	4.6	20
50	<scp>l</scp>â€Rhamnosylation: The Solvent is the Solution. European Journal of Organic Chemistry, 2017, 2017, 53-59.	2.4	20
51	Ternary deep eutectic solvents catalyzed d-glucosamine self-condensation to deoxyfructosazine: NMR study. Green Energy and Environment, 2021, 6, 261-270.	8.7	18
52	Interaction between environmental contaminant PFOA and PAMAM in water: 19F and 1H NMR studies. Journal of Molecular Liquids, 2019, 283, 45-50.	4.9	16
53	Vessel Effect in Câ€"F Bond Activation Prompts Revised Mechanism and Reveals an Autocatalytic Glycosylation. European Journal of Organic Chemistry, 2020, 2020, 140-144.	2.4	16
54	Enzyme inhibition by iminosugars: Analysis and insight into the glycosidaseâ€"iminosugar dependency of pH. Bioorganic and Medicinal Chemistry, 2013, 21, 4755-4761.	3.0	15

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55	NMR analysis of the Fischer-Tropsch wastewater: Combination of 1D selective gradient TOCSY, 2D DOSY and qNMR. Analytica Chimica Acta, 2019, 1066, 21-27.	5.4	15
56	Graphene oxide: a novel acid catalyst for the synthesis of 2,5-dimethyl-N-phenyl pyrrole by the Paalâ€“Knorr condensation. New Carbon Materials, 2017, 32, 160-167.	6.1	14
57	Isomeric distribution of monosaccharides in deep eutectic solvents: NMR study. Journal of Molecular Liquids, 2018, 255, 244-249.	4.9	14
58	Stereoselective <i>O</i>â€Glycosylations by Pyrylium Salt Organocatalysis**. Angewandte Chemie - International Edition, 2022, 61, .	13.8	14
59	The Grignard Reaction of Cyclodextrinâ€6â€aldehydes Revisited: A Study of the Stereoselectivity Upon Addition of Organometallic Reagents to Aldehydes and Ketones. European Journal of Organic Chemistry, 2010, 2010, 3883-3896.	2.4	13
60	Exploring the relationship between the conformation and pK_a: can a pK_avalue be used to determine the conformational equilibrium?. Organic and Biomolecular Chemistry, 2015, 13, 3116-3121.	2.8	13
61	NMR studies of the tautomer distributions of dâ€'fructose in lower alcohols/DMSOâ€'d6. Journal of Molecular Liquids, 2018, 271, 926-932.	4.9	13
62	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
63	Characterization of the acidity and basicity of green solvents by NMR techniques. Magnetic Resonance Letters, 2021, 1, 81-88.	1.3	12
64	Improved preparation and synthetic uses of 3-deoxy-d-arabino-hexonolactone: an efficient synthesis of Leptosphaerin. Carbohydrate Research, 1999, 315, 192-197.	2.3	11
65	Stereochemical substituent effects: investigation of the cyano, amide and carboxylate group. Tetrahedron, 2005, 61, 115-122.	1.9	11
66	An extended study of dimeric phenyl tropanes. Bioorganic and Medicinal Chemistry, 2009, 17, 4900-4909.	3.0	11
67	Artificial enzyme activity from cyclodextrins with cyanohydrins on the secondary rim. Tetrahedron Letters, 2013, 54, 2458-2461.	1.4	11
68	On the nature of the electronic effect of multiple hydroxyl groups in the 6-membered ring â€“ the effects are additive but steric hindrance plays a role too. Organic and Biomolecular Chemistry, 2017, 15, 1164-1173.	2.8	11
69	<scp>d</scp>-Glucose Isomerization with PAMAM Dendrimers as Environmentally Friendly Catalysts. Journal of Agricultural and Food Chemistry, 2021, 69, 5105-5112.	5.2	11
70	Synthesis of Tinâ€Containing Cyclodextrins as Potential Enzyme Models. European Journal of Organic Chemistry, 2012, 2012, 6383-6389.	2.4	10
71	Synthesis of Cyclodextrins with Carboxylic Acids at the Secondary Rim and an Evaluation of Their Properties as Chemzymes for Glycoside Hydrolysis. European Journal of Organic Chemistry, 2012, 2012, 4063-4070.	2.4	10
72	A fluorescence study of isofagomine protonation in Î²-glucosidase. Organic and Biomolecular Chemistry, 2015, 13, 6562-6566.	2.8	10

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73	The interaction between Fischerâ€“Tropsch wastewater and humic acid: A NMR study of butanol isomers. Fuel Processing Technology, 2018, 179, 296-301.	7.2	10
74	Reactivity, Selectivity, and Synthesis of 4â€•C â€Silylated Glycosyl Donors and 4â€Deoxy Analogues. Angewandte Chemie - International Edition, 2021, 60, 2689-2693.	13.8	10
75	Glycosyl Fluorides as Intermediates in BF₃Â·OEt₂â€Promoted Glycosylation with Trichloroacetimidates. European Journal of Organic Chemistry, 2017, 2017, 1281-1284.	2.4	9
76	Carbohydrateâ€Derived Metalâ€Chelatorâ€Triggered Lipids for Liposomal Drug Delivery. Chemistry - A European Journal, 2021, 27, 6917-6922.	3.3	9
77	Vessel effects in organic chemical reactions; a century-old, overlooked phenomenon. Chemical Science, 0, , .	7.4	9
78	On the electronic effects of OH groups. Synthesis and investigation of tetrahydroxylated azabicycloheptanes. Organic and Biomolecular Chemistry, 2005, 3, 1514.	2.8	8
79	A study of anhydrocelluloses â€“ Is a cellulose structure with residues in a 1C4-conformation more prone to hydrolysis?. Organic and Biomolecular Chemistry, 2011, 9, 7525.	2.8	8
80	Artificial enzymes based on cyclodextrin with phenol as the catalytic group. Tetrahedron Letters, 2012, 53, 5023-5026.	1.4	8
81	Synthesis of the repeating unit of the lipoteichoic acid of Streptococcus pneumoniae. Tetrahedron, 2012, 68, 1052-1061.	1.9	8
82	Total Synthesis of Five Lipoteichoic acids of <i>Clostridium difficile</i>. Chemistry - A European Journal, 2014, 20, 13511-13516.	3.3	8
83	Catalytic and Atomâ€Economic Glycosylation using Glycosyl Formates and Cheap Metal Salts. ChemSusChem, 2020, 13, 3166-3171.	6.8	8
84	Two Diastereomeric Artificial Enzymes with Different Catalytic Activity. European Journal of Organic Chemistry, 2012, 2012, 5366-5372.	2.4	7
85	Cyclodextrin-based artificial oxidases with high rate accelerations and selectivity. Tetrahedron Letters, 2014, 55, 2304-2307.	1.4	7
86	Valorization of Furfural Residue by Hydrothermal Carbonization: Processing Optimization, Chemical and Structural Characterization. ChemistrySelect, 2017, 2, 583-590.	1.5	7
87	Combination of DOSY and 1D selective gradient TOCSY: Versatile NMR tools for identify the mixtures from glycerol hydrogenolysis reaction. Fuel Processing Technology, 2018, 171, 117-123.	7.2	7
88	Development and Characterization of Mouse Monoclonal Antibodies Specific for <i>Clostridiodes (Clostridium) difficile</i> Lipoteichoic Acid. ACS Chemical Biology, 2020, 15, 1050-1058.	3.4	7
89	Pure Shift NMR: Application of 1D PSYCHE and 1D TOCSY-PSYCHE Techniques for Directly Analyzing the Mixtures from Biomass-Derived Platform Compound Hydrogenation/Hydrogenolysis. ACS Sustainable Chemistry and Engineering, 2021, 9, 2456-2464.	6.7	7
90	Selfâ€Promoted Glycosylation for the Synthesis of Î²â€<i>N</i>â€Glycosyl Sulfonyl Amides. European Journal of Organic Chemistry, 2021, 2021, 5685-5689.	2.4	7

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91	Synthesis and Thermotropic Phase Behavior of Four Glycoglycerolipids. Molecules, 2013, 18, 13546-13573.	3.8	6
92	Conformationally Switchable Glycosyl Donors. Journal of Organic Chemistry, 2019, 84, 13242-13251.	3.2	6
93	Chemoselectivity in Selfâ€Promoted Glycosylation: <i>N</i>â€•vs. <i>O</i>â€Glycosylation. European Journal of Organic Chemistry, 2020, 2020, 3914-3917.	2.4	6
94	NMR Insights into the Unexpected Interaction of SnCl₄with<scp>d</scp>-Glucosamine and Its Effect on 5-HMF Preparation in ZnCl₂Molten Salt Hydrate Medium. ChemistrySelect, 2016, 1, 6540-6545.	1.5	5
95	Super arming of a glycosyl donor using a molecular lever. Tetrahedron Letters, 2016, 57, 35-38.	1.4	5
96	Ca²⁺â€Assisted DOSYâ€‰NMR: An Unexpected Tool for Anomeric Identification for <scp>d</scp>â€Glucopyranose. ChemistrySelect, 2018, 3, 3943-3947.	1.5	5
97	Palladium(0)â€Catalyzed Rearrangement of Allylic Esters. ChemistrySelect, 2020, 5, 2559-2563.	1.5	5
98	Î±-Selective glycosylations using glycosyl <i>N</i>-(<i>ortho</i>-methoxyphenyl)trifluoroacetimidates. Organic and Biomolecular Chemistry, 2020, 18, 1918-1925.	2.8	5
99	Interactions between PAMAMâˆ’NH₂ and 6â€Mercaptopurine: Qualitative and Quantitative NMR studies. Chemistry - an Asian Journal, 2021, 16, 3658-3663.	3.3	5
100	A uronic acid analogue of isofagomine lactam as a nanomolar glucuronidase inhibitor. Tetrahedron Letters, 2012, 53, 2045-2047.	1.4	4
101	Enzymeâ€Catalyzed Regioselective Acetylation of Functionalized Glycosides. European Journal of Organic Chemistry, 2020, 2020, 4612-4615.	2.4	4
102	Synthesis and Glycosylation Properties of C6â€Silylated <i>Ido</i>â€•and <i>Gluco</i>â€Pyranosyl Donors. European Journal of Organic Chemistry, 2020, 2020, 4621-4634.	2.4	4
103	Reactivity, Selectivity, and Synthesis of 4â€•C â€Silylated Glycosyl Donors and 4â€Deoxy Analogues. Angewandte Chemie, 2021, 133, 2721-2725.	2.0	4
104	Mechanistic study on the conversion of d-fructose into deoxyfructosazine: Insights from NMR and DFT study. Chemical Engineering Science, 2020, 214, 115444.	3.8	3
105	Easy access to a carbohydrate-based template for stimuli-responsive surfactants. Beilstein Journal of Organic Chemistry, 2020, 16, 2788-2794.	2.2	3
106	NMR diffusion analysis of catalytic conversion mixtures from lignocellulose biomass using PSYCHE-iDOSY. Green Energy and Environment, 2022, , .	8.7	3
107	Synthesis of Î±-D-GalpN3-(1-3)-D-GalpN3: Î±- and 3-O-selectivity using 3,4-diol acceptors. Beilstein Journal of Organic Chemistry, 2018, 14, 2805-2811.	2.2	2
108	Selfâ€Promoted Stereoselective Glycosylations â€“ Past, Present, Future. Chemical Record, 2021, 21, 3063-3075.	5.8	2

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109	Conformational Lock of Glycosyl Donors Using Cyclic Carbamates. European Journal of Organic Chemistry, 2020, 2020, 6459-6467.	2.4	2
110	Catalytic conversion of d-glucose into lactic acid with Ba(OH)2 as a base catalyst:mechanistic insight by NMR techniques. Journal of Molecular Liquids, 2022, 357, 119074.	4.9	2
111	Chemical synthesis of lipoteichoic acid and derivatives. , 2010, , 455-476.		1
112	Scalable synthesis of hydroxymethyl alkylfuranoates as stable 2,5-furandicarboxylic acid precursors. Green Chemistry, 2020, 22, 2399-2402.	9.0	1
113	Protecting carbohydrates with ethers, acetals and orthoesters under basic conditions. Organic and Biomolecular Chemistry, 2021, 19, 7598-7601.	2.8	1
114	Stereoselective <i>O</i>â€Glycosylations by Pyrylium Salt Organocatalysis**. Angewandte Chemie, 2022, 134, .	2.0	1
115	Silylated Sugars â€“ Synthesis and Properties. Synlett, 2022, 33, 415-428.	1.8	1
116	Safe Radical Azidonation Using Polystyrene Supported Diazidoiodate(I).. ChemInform, 2005, 36, no.	0.0	0
117	Radical Substitution with Azide: TMSN3â€”PhI(OAc)2 as a Substitute of IN3.. ChemInform, 2005, 36, no.	0.0	0
118	Conformational Distortion Using a Molecular Lever: Synthesis and Conformational Studies of Galactoside Derivatives. European Journal of Organic Chemistry, 2018, 2018, 5532-5537.	2.4	0
119	Total synthesis of biologically active lipoteichoic acids. Arkivoc, 2013, 2013, 249-275.	0.5	0
120	Slow glycosylation: Activation of trichloroacetimidates under mild conditions using lithium salts and the role of counterions. Carbohydrate Research, 2022, 511, 108497.	2.3	0
121	Lupeol and pristimerin do not inhibit activation of the human sperm CatSper Ca(2+)-channel. F1000Research, 0, 11, 222.	1.6	0