

Anthony S Serianni

List of Publications by Year in descending order

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3,821
citations

101543

36
h-index

133252

59
g-index

104
all docs

104
docs citations

104
times ranked

2135
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydroxymethyl Group Conformation in Saccharides: Structural Dependencies of $^2J_{HH}$, $^3J_{HH}$, and $^1J_{CH}$ Spin-Spin Coupling Constants. <i>Journal of Organic Chemistry</i> , 2002, 67, 949-958.	3.2	185
2	Epimerization of aldoses by molybdate involving a novel rearrangement of the carbon skeleton. <i>Journal of the American Chemical Society</i> , 1982, 104, 6764-6769.	13.7	154
3	^{13}C -Enriched Methyl Aldopyranosides: Structural Interpretations of ^{13}C - 1H Spin-Coupling Constants and 1H Chemical Shifts. <i>Journal of the American Chemical Society</i> , 1995, 117, 8635-8644.	13.7	149
4	Acyclic Forms of $[1-^{13}C]$ Aldohexoses in Aqueous Solution: Quantitation by ^{13}C NMR and Deuterium Isotope Effects on Tautomeric Equilibria. <i>Journal of Organic Chemistry</i> , 2001, 66, 6244-6251.	3.2	143
5	Three-Bond $C\text{---}O\text{---}C$ Spin-Coupling Constants in Carbohydrates: A Development of a Karplus Relationship. <i>Journal of the American Chemical Society</i> , 1998, 120, 11158-11173.	13.7	132
6	Correlated $C\text{---}C$ and $C\text{---}O$ Bond Conformations in Saccharide Hydroxymethyl Groups: A Parametrization and Application of Redundant $^1H\text{---}^1H$, $^{13}C\text{---}^1H$, and $^{13}C\text{---}^{13}C$ NMR J-Couplings. <i>Journal of the American Chemical Society</i> , 2004, 126, 15668-15685.	13.7	124
7	Carbon-13 NMR studies of $[1-^{13}C]$ aldoses: empirical rules correlating pyranose ring configuration and conformation with carbon-13 chemical shifts and carbon-13/carbon-13 spin couplings. <i>Journal of the American Chemical Society</i> , 1987, 109, 3501-3508.	13.7	115
8	A nonprotein thermal hysteresis-producing xylomannan antifreeze in the freeze-tolerant Alaskan beetle <i>Upis ceramoides</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20210-20215.	7.1	96
9	D-Idose: a one- and two-dimensional NMR investigation of solution composition and conformation. <i>Journal of Organic Chemistry</i> , 1986, 51, 2694-2702.	3.2	93
10	Density Functional Calculations on Disaccharide Mimics: Studies of Molecular Geometries and Trans-O-glycosidic $^3J_{COCH}$ and $^3J_{COCC}$ Spin-Couplings. <i>Journal of the American Chemical Society</i> , 1999, 121, 9843-9851.	13.7	90
11	Stereoselective deuterium exchange of methylene protons in methyl tetraofuranosides: hydroxymethyl group conformations in methyl pentofuranosides. <i>Journal of Organic Chemistry</i> , 1983, 48, 1750-1757.	3.2	87
12	Methyl β -lactoside: 600-MHz 1H - and 75-MHz ^{13}C -n.m.r. studies of 2H - and ^{13}C -enriched compounds. <i>Carbohydrate Research</i> , 1982, 100, 87-101.	2.3	84
13	$^{13}C\text{---}^1H$ and $^{13}C\text{---}^{13}C$ Spin-Coupling Constants in Methyl β -d-Ribofuranoside and Methyl 2-Deoxy- β -d-erythro-pentofuranoside: A Correlations with Molecular Structure and Conformation. <i>Journal of the American Chemical Society</i> , 1997, 119, 8946-8964.	13.7	81
14	$^{13}C\text{---}^1H$ Spin-Coupling Constants in the β -d-Ribofuranosyl Ring: Effect of Ring Conformation on Coupling Magnitudes. <i>Journal of the American Chemical Society</i> , 1996, 118, 1413-1425.	13.7	79
15	Carbon-13-enriched carbohydrates. Preparation of aldonitriles and their reduction with a palladium catalyst. <i>Carbohydrate Research</i> , 1979, 72, 71-78.	2.3	77
16	Carbon-13-enriched carbohydrates. Preparation of erythrose, threose, glyceraldehyde, and glycolaldehyde with ^{13}C -enrichment in various carbon atoms. <i>Carbohydrate Research</i> , 1979, 72, 79-91.	2.3	77
17	One-bond ^{13}C - 1H spin-coupling constants in aldofuranosyl rings: effect of conformation on coupling magnitude. <i>Journal of the American Chemical Society</i> , 1995, 117, 8645-8650.	13.7	76
18	Torsional effects on the one-bond ^{13}C - ^{13}C spin coupling constant in ethylene glycol: insights into the behavior of $^1J_{CC}$ in carbohydrates. <i>Journal of the American Chemical Society</i> , 1993, 115, 10863-10870.	13.7	71

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19	DFT and NMR Studies of ² JCOH, ³ JHCOH, and ³ JCCOH Spin-Couplings in Saccharides: ¹³ C- ¹ H Torsional Bias and H-Bonding in Aqueous Solution. <i>Journal of Organic Chemistry</i> , 2007, 72, 7071-7082.	3.2	68
20	¹³ C-Enriched ribonucleosides: synthesis and application of ¹³ C- ¹ H and ¹³ C- ¹³ C spin-coupling constants to assess furanose and N-glycoside bond conformations. <i>Journal of the American Chemical Society</i> , 1990, 112, 7373-7381.	13.7	67
21	Wood frog adaptations to overwintering in Alaska: New limits to freezing tolerance. <i>Journal of Experimental Biology</i> , 2014, 217, 2193-200.	1.7	67
22	Carbon-13-enriched carbohydrates: preparation of triose, tetrose, and pentose phosphates. <i>Biochemistry</i> , 1979, 18, 1192-1199.	2.5	66
23	¹³ C- ¹ H and ¹³ C- ¹³ C Spin Coupling Behavior in Aldofuranosyl Rings from Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 1999, 103, 3783-3795.	2.5	63
24	dl -apiiose substituted with stable isotopes: Synthesis, N.M.R.-spectral analysis, and furanose anomerization. <i>Carbohydrate Research</i> , 1987, 166, 85-99.	2.3	60
25	Cyanohydrin synthesis: studies with carbon-13-labeled cyanide. <i>Journal of Organic Chemistry</i> , 1980, 45, 3329-3341.	3.2	54
26	Two-bond ¹³ C- ¹³ C spin-coupling constants in carbohydrates: effect of structure on coupling magnitude and sign. <i>Carbohydrate Research</i> , 1996, 280, 177-186.	2.3	54
27	D-Talose anomerization: NMR methods to evaluate the reaction kinetics. <i>Journal of the American Chemical Society</i> , 1989, 111, 2681-2687.	13.7	50
28	Synthesis and n.m.r.-spectral analysis of unenriched and [1- ¹³ C]-enriched 5-deoxypentoses and 5-O-methylpentoses. <i>Carbohydrate Research</i> , 1987, 163, 169-188.	2.3	49
29	¹³ C- ¹ H and ¹³ C- ¹³ C Spin Couplings in [2- ¹³ C]-Deoxyribonucleosides: Correlations with Molecular Structure. <i>Journal of the American Chemical Society</i> , 1997, 119, 1737-1744.	13.7	44
30	2-Deoxy- ¹² -d-ribofuranosylamine: Quantum Mechanical Calculations of Molecular Structure and NMR Spin-Spin Coupling Constants in Nitrogen-Containing Saccharides. <i>Journal of the American Chemical Society</i> , 2000, 122, 6435-6448.	13.7	44
31	Synthesis of d-erythro-2-pentulose and d-threo-2-pentulose and analysis of the ¹³ C- and ¹ H-n.m.r. spectra of the 1- ¹³ C- and 2- ¹³ C-substituted sugars. <i>Carbohydrate Research</i> , 1991, 209, 13-31.	2.3	41
32	¹³ C-Labeled ¹⁵ N-Acetyl-neuraminic Acid in Aqueous Solution: Detection and Quantification of Acyclic Keto, Keto Hydrate, and Enol Forms by ¹³ C NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2008, 130, 11892-11900.	13.7	41
33	Carbon-13-carbon-13 spin coupling constants in aldoses enriched with ¹³ C at the terminal hydroxymethyl carbon: effect of coupling pathway structure of JCC in carbohydrates. <i>Journal of the American Chemical Society</i> , 1992, 114, 3499-3505.	13.7	40
34	¹³ C-Substituted pentos-2-uloses: synthesis and analysis by ¹ H- and ¹³ C-n.m.r. spectroscopy. <i>Carbohydrate Research</i> , 1990, 207, 185-210.	2.3	39
35	Stable Isotopically-Enriched D-Glucose: Strategies to Introduce Carbon, Hydrogen and Oxygen Isotopes at Various Sites. <i>Journal of Carbohydrate Chemistry</i> , 1990, 9, 513-541.	1.1	39
36	Conformational Populations of ¹² -(¹⁴ C)- ¹ O-Glycosidic Linkages Using Redundant NMR ¹ J- ¹ Couplings and Circular Statistics. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3042-3058.	2.6	39

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37	Conformational Analysis of 2 -Glycosidic Linkages in ^{13}C -Labeled Glucobiosides Using Inter-residue Scalar Coupling Constants. <i>Journal of Physical Chemistry B</i> , 2008, 112, 4447-4453.	2.6	38
38	Amide <i>Cis</i> – <i>Trans</i> Isomerization in Aqueous Solutions of Methyl <i>N</i> -Formyl- <i>D</i> -glucosaminides and Methyl <i>N</i> -Acetyl- <i>D</i> -glucosaminides: Chemical Equilibria and Exchange Kinetics. <i>Journal of the American Chemical Society</i> , 2010, 132, 4641-4652.	13.7	38
39	Geminal $^2\text{JCCH}$ Spin–Spin Coupling Constants as Probes of the 3 Glycosidic Torsion Angle in Oligosaccharides. <i>Journal of the American Chemical Society</i> , 2005, 127, 9781-9793.	13.7	36
40	Dependence of Pyranose Ring Puckering on Anomeric Configuration: Methyl Idopyranosides. <i>Journal of Physical Chemistry B</i> , 2012, 116, 6380-6386.	2.6	35
41	$^2\text{JCOC}$ Spin–Spin Coupling Constants Across Glycosidic Linkages Exhibit a Valence Bond-Angle Dependence. <i>Journal of the American Chemical Society</i> , 2000, 122, 396-397.	13.7	34
42	^{13}C – ^{13}C NMR Spin–Spin Coupling Constants in Saccharides: Structural Correlations Involving All Carbons in Aldohexopyranosyl Rings. <i>Journal of Organic Chemistry</i> , 2007, 72, 7511-7522.	3.2	34
43	[^{1-13}C]Alldono-1,4-lactones: conformational studies based on proton-proton, proton-carbon- 13 , and carbon- 13 -carbon- 13 spin couplings and ab initio molecular orbital calculations. <i>Journal of the American Chemical Society</i> , 1987, 109, 4464-4472.	13.7	32
44	Verification of the Projection Resultant Method for Two-Bond ^{13}C – ^{13}C Coupling Sign Determinations in Carbohydrates. <i>Journal of Magnetic Resonance Series B</i> , 1996, 112, 69-74.	1.6	31
45	<i>D</i> -Penturonic acids: solution studies of stable-isotopically enriched compounds by ^1H - and ^{13}C -n.m.r. spectroscopy. <i>Carbohydrate Research</i> , 1991, 210, 51-70.	2.3	30
46	^{13}C -Labeled <i>D</i> -Ribose: Chemo-Enzymic Synthesis of Various Isotopomers. <i>Journal of Biomolecular Structure and Dynamics</i> , 1994, 11, 1133-1148.	3.5	30
47	Stereospecific molybdc acid-catalyzed isomerization of 2-hexuloses to branched-chain aldoses. <i>Carbohydrate Research</i> , 1999, 319, 38-46.	2.3	30
48	Use of Circular Statistics To Model ^1Man – ^2Man and ^1Man – ^3Man – ^2Man <i>O</i> -Glycosidic Linkage Conformation in ^{13}C -Labeled Disaccharides and High-Mannose Oligosaccharides. <i>Biochemistry</i> , 2019, 58, 546-560.	2.5	29
49	<i>Mycobacterium avium</i> Glycopeptidolipids Require Specific Acetylation and Methylation Patterns for Signaling through Toll-like Receptor 2*. <i>Journal of Biological Chemistry</i> , 2008, 283, 33221-33231.	3.4	27
50	^{13}C – ^1H and ^{13}C – ^{13}C NMR <i>J</i> -Couplings in ^{13}C -Labeled <i>N</i> -Acetyl-neuraminic Acid: Correlations with Molecular Structure. <i>Journal of Organic Chemistry</i> , 2008, 73, 4376-4387.	3.2	26
51	Cryoprotectant Biosynthesis and the Selective Accumulation of Threitol in the Freeze-tolerant Alaskan Beetle, <i>Upis ceramoides</i> . <i>Journal of Biological Chemistry</i> , 2009, 284, 16822-16831.	3.4	25
52	An NMR investigation of putative interresidue H-bonding in methyl ^1Man -cellobioside in solution. <i>Carbohydrate Research</i> , 2009, 344, 1582-1587.	2.3	25
53	<i>O</i> -Acetyl Side-Chains in Monosaccharides: Redundant NMR Spin-Couplings and Statistical Models for Acetate Ester Conformational Analysis. <i>Journal of Physical Chemistry B</i> , 2017, 121, 66-77.	2.6	25
54	Informing Saccharide Structural NMR Studies with Density Functional Theory Calculations. <i>Methods in Molecular Biology</i> , 2015, 1273, 289-331.	0.9	24

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55	Two-bond ^{13}C - ^{13}C spin-coupling constants in carbohydrates: New measurements of coupling signs. <i>Carbohydrate Research</i> , 1998, 309, 145-152.	2.3	23
56	Oligosaccharide Trans-Glycoside $^3\text{J}_{\text{COCC}}$ Karplus Curves Are Not Equivalent: Effect of Internal Electronegative Substituents. <i>Journal of Organic Chemistry</i> , 2008, 73, 3255-3257.	3.2	23
57	[^{13}C , ^{15}N]2-Acetamido-2-deoxy-d-aldohexoses and Their Methyl Glycosides: Synthesis and NMR Investigations of J-Couplings Involving ^1H , ^{13}C , and ^{15}N . <i>Journal of Organic Chemistry</i> , 2006, 71, 466-479.	3.2	22
58	(^{13}C)- ^2H -deoxyribonucleosides: structural and conformational insights derived from carbon- 13 -proton spin coupling constants involving $\text{C}1'$. <i>Journal of Organic Chemistry</i> , 1993, 58, 5513-5517.	3.2	21
59	1-Deoxy-d-xylulose: Synthesis Based on Molybdate-Catalyzed Rearrangement of a Branched-Chain Aldotetrose. <i>Organic Letters</i> , 2001, 3, 3819-3822.	4.6	21
60	^1H -Acetyl Side-Chains in Saccharides: NMR ^1H -Coupling Equations Sensitive to CH^1NH and NH^1CO Bond Conformations in 2-Acetamido-2-deoxy-aldohexopyranosyl Rings. <i>Journal of Organic Chemistry</i> , 2010, 75, 4899-4910.	3.2	21
61	Stable, isotopically substituted carbohydrates: An improved synthesis of (6- ^{13}C)aldohexoses. <i>Carbohydrate Research</i> , 1988, 175, 49-58.	2.3	20
62	NMR Spin-Couplings in Saccharides: Relationships Between Structure, Conformation and the Magnitudes of ^1H - ^1H , ^1H - ^1C and ^1H - ^1C Values. <i>New Developments in NMR</i> , 2017, , 20-100.	0.1	20
63	Chiral hydroxymethyl groups: ^1H NMR assignments of the prochiral $\text{C}-5$ protons of ^2H -deoxyribonucleosides. <i>Magnetic Resonance in Chemistry</i> , 1990, 28, 324-330.	1.9	18
64	^{13}C -Labeled Idohexopyranosyl Rings: Effects of Methyl Glycosidation and $\text{C}6$ Oxidation on Ring Conformational Equilibria. <i>Journal of Organic Chemistry</i> , 2017, 82, 1356-1370.	3.2	16
65	Synthesis and ^1H -Glycosidic Linkage Conformational Analysis of ^{13}C -Labeled Oligosaccharide Fragments of an Antifreeze Glycolipid. <i>Journal of Organic Chemistry</i> , 2019, 84, 1706-1724.	3.2	15
66	Methyl 4-O- ^2H -galactopyranosyl ^2H -D-glucopyranoside (methyl ^2H -lactoside). <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2005, 61, o674-o677.	0.4	14
67	Labeling Monosaccharides With Stable Isotopes. <i>Methods in Enzymology</i> , 2015, 565, 423-458.	1.0	14
68	Reconciling MD and molecular dynamics models of linkage conformation in oligosaccharides. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 14454-14457.	2.8	12
69	Methyl 4-O- ^2H - ^2H -galactopyranosyl ^2H -mannopyranoside methanol 0.375-solvate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2010, 66, o67-o70.	0.4	11
70	Phosphate-Catalyzed Degradation of ^2H -Glucosone in Aqueous Solution Is Accompanied by $\text{C}1$ - $\text{C}2$ Transposition. <i>Journal of the American Chemical Society</i> , 2012, 134, 11511-11524.	13.7	11
71	^1H - and (^{13}C)-ascorbic acid: synthesis and NMR characterization. <i>Carbohydrate Research</i> , 1996, 284, 135-143.	2.3	9
72	Rearrangement of 3-Deoxy- ^2H -erythro-hexos-2-ulose in Aqueous Solution: NMR Evidence of Intramolecular 1,2-Hydrogen Transfer. <i>Journal of Organic Chemistry</i> , 2011, 76, 8151-8158.	3.2	9

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73	Methyl [13C]Glucopyranosiduronic Acids: Effect of COOH Ionization and Exocyclic Structure on NMR Spin-Couplings. <i>Journal of Organic Chemistry</i> , 2012, 77, 9521-9534.	3.2	9
74	¹³ C- ¹³ C spin-coupling constants in crystalline ¹³ C-labeled saccharides: conformational effects interrogated by solid-state ¹³ C NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 23576-23588.	2.8	9
75	<i>MAAT</i> : A Web-Based Application to Determine Rotamer Population Distributions in Solution from Nuclear Magnetic Resonance Spin-Coupling Constants. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 3135-3141.	5.4	9
76	On the use of model compounds to assess 2-deoxy-D-erythro-pentofuranose conformation at apyrimidinic sites in DNA. <i>Journal of the American Chemical Society</i> , 1990, 112, 5886-5887.	13.7	8
77	Ab Initio Molecular Orbital Calculations on Carbohydrates. <i>ACS Symposium Series</i> , 1990, , 91-119.	0.5	8
78	Disorder and conformational analysis of methyl β -D-galactopyranosyl-(1 \rightarrow 4)- β -D-xylopyranoside. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2012, 68, o7-o11.	0.4	8
79	Multiply ¹³ C-substituted monosaccharides: synthesis of d-(1,5,6- ¹³ C ₃)glucose and d-(2,5,6- ¹³ C ₃)glucose. <i>Carbohydrate Research</i> , 1992, 226, 261-269.	2.3	7
80	¹³ C-labeled oligodeoxyribonucleotides: A solution study of a CCAAT-containing sequence at the nuclear factor I recognition site of human adenovirus. <i>Biopolymers</i> , 1994, 34, 1175-1186.	2.4	7
81	A Disaccharide Rearrangement Catalyzed by Molybdate Anion in Aqueous Solution. <i>Journal of Organic Chemistry</i> , 2007, 72, 3081-3084.	3.2	6
82	<i>MAAT</i> Analysis of Aldofuranosyl Rings: Unbiased Modeling of Conformational Equilibria and Dynamics in Solution. <i>Biochemistry</i> , 2022, 61, 239-251.	2.5	6
83	Methyl β -D-galactopyranosyl-(1 \rightarrow 4)- β -D-allopyranoside tetrahydrate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2010, 66, o484-o487.	0.4	5
84	Methyl 4-O- β -D-mannopyranosyl β -D-xylopyranoside. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2012, 68, o502-o506.	0.4	5
85	Methyl 4-O- β -D-xylopyranosyl β -D-mannopyranoside, a core disaccharide of an antifreeze glycolipid. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2013, 69, 1047-1050.	0.4	5
86	A chemical synthesis of a multiply ¹³ C-labeled hexasaccharide: a high-mannose N-glycan fragment. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2016, 59, 673-679.	1.0	5
87	<i>N</i> -Acetyl Side-Chain Conformation in Saccharides: Solution Models Obtained from <i>MAAT</i> Analysis. <i>Journal of Organic Chemistry</i> , 2022, 87, 8368-8379.	3.2	5
88	Rapid assembly of branched mannose oligosaccharides through consecutive regioselective glycosylation: A convergent and efficient strategy. <i>Tetrahedron</i> , 2017, 73, 3932-3938.	1.9	4
89	Enzymatic synthesis of ribo- and β -deoxyribonucleosides from glycofuranosyl phosphates: An approach to facilitate isotopic labeling. <i>Carbohydrate Research</i> , 2017, 449, 125-133.	2.3	4
90	A convenient synthesis of short-chain β -(1 \rightarrow 2) mannopyranosyl oligosaccharides. <i>Carbohydrate Research</i> , 2020, 489, 107897.	2.3	4

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91	Two-bond ^{13}C spin-coupling constants in saccharides: dependencies on exocyclic hydroxyl group conformation. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 22912-22922.	2.8	4
92	Nonconventional NMR Spin-Coupling Constants in Oligosaccharide Conformational Modeling: Structural Dependencies Determined from Density Functional Theory Calculations. <i>ACS Omega</i> , 2022, 7, 23950-23966.	3.5	4
93	Microcomputer-automated reactor for synthesis of ^{13}C -labeled Monosaccharides. <i>AIChE Journal</i> , 1990, 36, 1822-1828.	3.6	3
94	Synthesis of high-mannose oligosaccharides containing mannose-6-phosphate residues using regioselective glycosylation. <i>Carbohydrate Research</i> , 2018, 467, 23-32.	2.3	3
95	^1H -Benzoyl side-chain conformations in 2,3,4,6-tetra- ^1O -benzoyl- β -D-galactopyranosyl-(1 \rightarrow 4)-1,2,6-tri- ^1O -benzoyl- β -D-glucopyranose (ethyl acetate solvate) and 1,2,4,6-tetra- ^1O -benzoyl- β -D-glucopyranose (acetone) <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i>	0.5	0
96	Structural properties of β -D-mannopyranosyl rings containing ^1O -acetyl side-chains. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019, 75, 1166-1174.	0.5	2
97	Conformational analysis of the disaccharide methyl β -D-mannopyranosyl-(1 \rightarrow 3)-2- ^1O -acetyl- β -D-mannopyranoside monohydrate. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019, 75, 610-615.	0.5	1
98	Saccharide Structure and Reactivity Interrogated with Stable Isotopes. <i>ACS Symposium Series</i> , 2017, , 105-153.	0.5	0
99	Isopropyl 3-deoxy- β -D-ribo-hexopyranoside (isopropyl) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td (3-deo</i> <i>Crystallographica Section C, Structural Chemistry</i> , 2021, 77, 490-495.	0.5	0
100	Methyl β -lactoside [methyl β -D-galactopyranosyl-(1 \rightarrow 4)- β -D-glucopyranoside] monohydrate: a solvomorphism study. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2021, 77, 668-674.	0.5	0
101	Pyridoxamine (PM) protects proteins from functional damage by 3-deoxyglucosone (3DG). <i>FASEB Journal</i> , 2007, 21, A294.	0.5	0
102	Glycosidic linkage, ^1N -acetyl side-chain, and other structural properties of methyl 2-acetamido-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-mannopyranoside monohydrate and related compounds. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2020, 76, 287-297.	0.5	0
103	β -D-Mannosamine hydrochloride (2-amino-2-deoxy- β -D-mannose hydrochloride): ionic hydrogen bonding in saccharides involving chloride and aminium ions. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2022, 78, 223-230.	0.5	0