

DarÃ³n I Freedberg

List of Publications by Year in descending order

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36
papers

1,091
citations

430874

18
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395702

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37
docs citations

37
times ranked

1404
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural, functional, and immunogenicity implications of <i>F9</i> gene recoding. <i>Blood Advances</i> , 2022, 6, 3932-3944.	5.2	4
2	Reversible <i>O</i> -Acetyl Migration within the Sialic Acid Side Chain and Its Influence on Protein Recognition. <i>ACS Chemical Biology</i> , 2021, 16, 1951-1960.	3.4	19
3	The Incorporation of Labile Protons into Multidimensional NMR Analyses: Glycan Structures Revisited. <i>Journal of the American Chemical Society</i> , 2021, 143, 8935-8948.	13.7	13
4	Glycosylation States on Intact Proteins Determined by NMR Spectroscopy. <i>Molecules</i> , 2021, 26, 4308.	3.8	8
5	Sensitivity enhancement of homonuclear multidimensional NMR correlations for labile sites in proteins, polysaccharides, and nucleic acids. <i>Nature Communications</i> , 2020, 11, 5317.	12.8	20
6	Dispersing the crowd: Adopting ¹³ C direct detection for glycans. <i>Journal of Magnetic Resonance</i> , 2020, 318, 106792.	2.1	6
7	A combined NMR, MD and DFT conformational analysis of 9-O-acetyl sialic acid-containing GM3 ganglioside glycan and its 9-N-acetyl mimic. <i>Glycobiology</i> , 2020, 30, 787-801.	2.5	17
8	Size-Controlled Chemoenzymatic Synthesis of Homogeneous Oligosaccharides of <i>Neisseria meningitidis</i> W Capsular Polysaccharide. <i>ACS Catalysis</i> , 2020, 10, 2791-2798.	11.2	14
9	Data processing in NMR relaxometry using the matrix pencil. <i>Journal of Magnetic Resonance</i> , 2020, 313, 106704.	2.1	10
10	Effects of codon optimization on coagulation factor IX translation and structure: Implications for protein and gene therapies. <i>Scientific Reports</i> , 2019, 9, 15449.	3.3	38
11	Solution NMR Structural Studies of Glycans. <i>Israel Journal of Chemistry</i> , 2019, 59, 1039-1058.	2.3	3
12	Enabling adoption of 2D-NMR for the higher order structure assessment of monoclonal antibody therapeutics. <i>MABs</i> , 2019, 11, 94-105.	5.2	67
13	Improving Analytical Characterization of Glycoconjugate Vaccines through Combined High-Resolution MS and NMR: Application to <i>Neisseria meningitidis</i> Serogroup B Oligosaccharide-Peptide Glycoconjugates. <i>Analytical Chemistry</i> , 2018, 90, 5040-5047.	6.5	5
14	Single synonymous mutation in factor IX alters protein properties and underlies haemophilia B. <i>Journal of Medical Genetics</i> , 2017, 54, 338-345.	3.2	66
15	The β -reducing end in α -polysialic acid constitutes a unique structural motif. <i>Glycobiology</i> , 2017, 27, 900-911.	2.5	11
16	Glycan OH Exchange Rate Determination in Aqueous Solution: Seeking Evidence for Transient Hydrogen Bonds. <i>Journal of Physical Chemistry B</i> , 2017, 121, 683-695.	2.6	16
17	Uncovering Nonconventional and Conventional Hydrogen Bonds in Oligosaccharides through NMR Experiments and Molecular Modeling: Application to Sialyl Lewis-X. <i>Journal of the American Chemical Society</i> , 2015, 137, 13444-13447.	13.7	34
18	Synthesis and Physicochemical Characterization of α -D-Tagatose-1-Phosphate: The Substrate of the Tagatose-1-Phosphate Kinase in the Phosphotransferase System-Mediated α -D-Tagatose Catabolic Pathway of <i>Bacillus licheniformis</i> . <i>Journal of Molecular Microbiology and Biotechnology</i> , 2015, 25, 106-119.	1.0	4

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19	NMR of glycans: Shedding new light on old problems. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2014, 79, 48-68.	7.5	61
20	Sialo-CEST: chemical exchange saturation transfer NMR of oligo- and poly-sialic acids and the assignment of their hydroxyl groups using selective- and HSQC-TOCSY. <i>Carbohydrate Research</i> , 2014, 389, 165-173.	2.3	21
21	Live Cell NMR. <i>Annual Review of Biophysics</i> , 2014, 43, 171-192.	10.0	130
22	Constant time INEPT CT-HSQC (CTi-CT-HSQC) – A new NMR method to measure accurate one-bond J and RDCs with strong ¹ H– ¹ H couplings in natural abundance. <i>Journal of Magnetic Resonance</i> , 2013, 228, 159-165.	2.1	17
23	Direct Evidence for Hydrogen Bonding in Glycans: A Combined NMR and Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4860-4869.	2.6	45
24	Accurate determinations of one-bond ¹³ C– ¹³ C couplings in ¹³ C-labeled carbohydrates. <i>Journal of Magnetic Resonance</i> , 2013, 228, 130-135.	2.1	5
25	Evidence for Helical Structure in a Tetramer of α -2-8 Sialic Acid: Unveiling a Structural Antigen. <i>Journal of the American Chemical Society</i> , 2012, 134, 10717-10720.	13.7	52
26	More accurate ¹ JCH coupling measurement in the presence of ³ JHH strong coupling in natural abundance. <i>Journal of Magnetic Resonance</i> , 2012, 215, 10-22.	2.1	50
27	Transient hydrogen bonding in uniformly ¹³ C, ¹⁵ N-labeled Carbohydrates in Water. <i>Biopolymers</i> , 2012, 97, 145-154.	2.4	16
28	NMR detection and characterization of sialylated glycoproteins and cell surface polysaccharides. <i>Journal of Biomolecular NMR</i> , 2011, 51, 163-171.	2.8	16
29	Utility of coupled-HSQC experiments in the intact structural elucidation of three complex saponins from <i>Blechnum spaldingii</i> . <i>Carbohydrate Research</i> , 2011, 346, 759-768.	2.3	25
30	Extracellular structure of polysialic acid explored by on cell solution NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 11557-11561.	7.1	55
31	The utility of residual dipolar couplings in detecting motion in carbohydrates: application to sucrose. <i>Carbohydrate Research</i> , 2005, 340, 863-874.	2.3	38
32	<i>Escherichia coli</i> K1 polysialic acid O-acetyltransferase gene, neuO, and the mechanism of capsule form variation involving a mobile contingency locus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5564-5569.	7.1	68
33	Discriminating the Helical Forms of Peptides by NMR and Molecular Dynamics Simulation. <i>Journal of the American Chemical Society</i> , 2004, 126, 10478-10484.	13.7	25
34	An Alternative Method for Pucker Determination in Carbohydrates from Residual Dipolar Couplings: A Solution NMR Study of the Fructofuranosyl Ring of Sucrose. <i>Journal of the American Chemical Society</i> , 2002, 124, 2358-2362.	13.7	57
35	Deuterium conformational equilibrium isotope effects in 1,3,5-cycloheptatriene-7-d. <i>Journal of Physical Organic Chemistry</i> , 2001, 14, 625-635.	1.9	11
36	Mapping Hydration Water Molecules in the HIV-1 Protease/DMP323 Complex in Solution by NMR Spectroscopy. <i>Biochemistry</i> , 1996, 35, 12694-12704.	2.5	44