

Matthew P Campbell

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6953341/publications.pdf>

Version: 2024-02-01

60
papers

3,371
citations

159585

30
h-index

182427

51
g-index

61
all docs

61
docs citations

61
times ranked

3092
citing authors

#	ARTICLE	IF	CITATIONS
1	HPLC-based analysis of serum N-glycans on a 96-well plate platform with dedicated database software. <i>Analytical Biochemistry</i> , 2008, 376, 1-12.	2.4	449
2	GlycoBase and autoGU: tools for HPLC-based glycan analysis. <i>Bioinformatics</i> , 2008, 24, 1214-1216.	4.1	274
3	Proposal for a standard system for drawing structural diagrams of <i>N</i> - and <i>O</i> -linked carbohydrates and related compounds. <i>Proteomics</i> , 2009, 9, 3796-3801.	2.2	238
4	UniCarbKB: building a knowledge platform for glycoproteomics. <i>Nucleic Acids Research</i> , 2014, 42, D215-D221.	14.5	147
5	UniCarb-DB: a database resource for glycomic discovery. <i>Bioinformatics</i> , 2011, 27, 1343-1344.	4.1	128
6	GlyTouCan: an accessible glycan structure repository. <i>Glycobiology</i> , 2017, 27, 915-919.	2.5	123
7	GlyGen: Computational and Informatics Resources for Glycoscience. <i>Glycobiology</i> , 2020, 30, 72-73.	2.5	123
8	Structural Feature Ions for Distinguishing <i>N</i> - and <i>O</i> -Linked Glycan Isomers by LC-ESI-IT MS/MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 895-906.	2.8	122
9	EUROCarbDB: An open-access platform for glycoinformatics. <i>Glycobiology</i> , 2011, 21, 493-502.	2.5	116
10	MIRAGE: The minimum information required for a glycomics experiment. <i>Glycobiology</i> , 2014, 24, 402-406.	2.5	116
11	The Minimum Information Required for a Glycomics Experiment (MIRAGE) Project: Improving the Standards for Reporting Mass-spectrometry-based Glycoanalytic Data. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 991-995.	3.8	109
12	Building a PGC-LC-MS N-glycan retention library and elution mapping resource. <i>Glycoconjugate Journal</i> , 2018, 35, 15-29.	2.7	93
13	GlycoStore: a database of retention properties for glycan analysis. <i>Bioinformatics</i> , 2018, 34, 3231-3232.	4.1	77
14	Recent advances in glycoinformatic platforms for glycomics and glycoproteomics. <i>Current Opinion in Structural Biology</i> , 2020, 62, 56-69.	5.7	74
15	GlycoMob: an ion mobility-mass spectrometry collision cross section database for glycomics. <i>Glycoconjugate Journal</i> , 2016, 33, 399-404.	2.7	73
16	The minimum information required for a glycomics experiment (MIRAGE) project: improving the standards for reporting glycan microarray-based data. <i>Glycobiology</i> , 2017, 27, 280-284.	2.5	69
17	N-Glycans Modulate the Function of Human Corticosteroid-Binding Globulin. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M111.009100.	3.8	65
18	The minimum information required for a glycomics experiment (MIRAGE) project: sample preparation guidelines for reliable reporting of glycomics datasets. <i>Glycobiology</i> , 2016, 26, 907-910.	2.5	62

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19	Toolboxes for a standardised and systematic study of glycans. <i>BMC Bioinformatics</i> , 2014, 15, S9.	2.6	58
20	Validation of the curation pipeline of UniCarb-DB: Building a global glycan reference MS/MS repository. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 108-116.	2.3	58
21	UniCarbKB: Putting the pieces together for glycomics research. <i>Proteomics</i> , 2011, 11, 4117-4121.	2.2	55
22	GlycoRDF: an ontology to standardize glycomics data in RDF. <i>Bioinformatics</i> , 2015, 31, 919-925.	4.1	51
23	SPRINT-Gly: predicting <i>N</i> - and <i>O</i> -linked glycosylation sites of human and mouse proteins by using sequence and predicted structural properties. <i>Bioinformatics</i> , 2019, 35, 4140-4146.	4.1	48
24	Symbol nomenclature for representing glycan structures: Extension to cover different carbohydrate types. <i>Proteomics</i> , 2011, 11, 4291-4295.	2.2	47
25	Glycosylation status of serum in inflammatory arthritis in response to anti-TNF treatment. <i>Rheumatology</i> , 2013, 52, 1572-1582.	1.9	47
26	BioHackathon series in 2011 and 2012: penetration of ontology and linked data in life science domains. <i>Journal of Biomedical Semantics</i> , 2014, 5, 5.	1.6	47
27	Introducing glycomics data into the Semantic Web. <i>Journal of Biomedical Semantics</i> , 2013, 4, 39.	1.6	46
28	Databases and Associated Tools for Glycomics and Glycoproteomics. <i>Methods in Molecular Biology</i> , 2017, 1503, 235-264.	0.9	44
29	SugarBindDB, a resource of glycan-mediated host-pathogen interactions. <i>Nucleic Acids Research</i> , 2016, 44, D1243-D1250.	14.5	40
30	Property Graph vs RDF Triple Store: A Comparison on Glycan Substructure Search. <i>PLoS ONE</i> , 2015, 10, e0144578.	2.5	37
31	Tandem mass spectra of glycan substructures enable the multistage mass spectrometric identification of determinants on oligosaccharides. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 931-939.	1.5	35
32	The minimum information required for a glycomics experiment (MIRAGE) project: LC guidelines. <i>Glycobiology</i> , 2019, 29, 349-354.	2.5	30
33	GlycoDigest: a tool for the targeted use of exoglycosidase digestions in glycan structure determination. <i>Bioinformatics</i> , 2014, 30, 3131-3133.	4.1	29
34	Quantitative profiling of glycans and glycopeptides: an informatics perspective. <i>Current Opinion in Structural Biology</i> , 2016, 40, 70-80.	5.7	29
35	Comprehensive analysis of the N-glycan biosynthetic pathway using bioinformatics to generate UniCorn: A theoretical N-glycan structure database. <i>Carbohydrate Research</i> , 2016, 431, 56-63.	2.3	28
36	UniCarbKB: New database features for integrating glycan structure abundance, compositional glycoproteomics data, and disease associations. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 1669-1675.	2.4	27

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37	GlycoBase and autoGU: Resources for Interpreting HPLC-Glycan Data. <i>Methods in Molecular Biology</i> , 2015, 1273, 17-28.	0.9	26
38	GlyGen data model and processing workflow. <i>Bioinformatics</i> , 2020, 36, 3941-3943.	4.1	22
39	GlycoExtractor: A Web-Based Interface for High Throughput Processing of HPLC-Glycan Data. <i>Journal of Proteome Research</i> , 2010, 9, 2037-2041.	3.7	21
40	Entropy and Oligomerization in GPCRs. <i>Journal of Molecular Neuroscience</i> , 2005, 26, 113-122.	2.3	16
41	A consensus-based and readable extension of <i>LiCoRR</i> for <i>Reaction Rules</i> (LiCoRR). <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 2645-2662.	2.2	14
42	Connectivity and binding site recognition: Applications relevant to drug design. <i>Journal of Computational Chemistry</i> , 2010, 31, 2677-2688.	3.3	11
43	A Review of Software Applications and Databases for the Interpretation of Glycopeptide Data. <i>Trends in Glycoscience and Glycotechnology</i> , 2017, 29, E51-E62.	0.1	9
44	Expanding the capillary electrophoresis-based glucose unit database of the GUcal app. <i>Glycobiology</i> , 2020, 30, 362-364.	2.5	7
45	The glycoconjugate ontology (GlycoCoO) for standardizing the annotation of glycoconjugate data and its application. <i>Glycobiology</i> , 2021, 31, 741-750.	2.5	7
46	Greedy feature selection for glycan chromatography data with the generalized Dirichlet distribution. <i>BMC Bioinformatics</i> , 2013, 14, 155.	2.6	4
47	Navigating the Glycome Space and Connecting the Glycoproteome. <i>Methods in Molecular Biology</i> , 2017, 1558, 139-158.	0.9	4
48	GlycoStore: A Platform for H/UPLC and Capillary Electrophoresis Glycan Data. <i>Methods in Molecular Biology</i> , 2022, 2370, 25-40.	0.9	4
49	Enhancing the interoperability of glycan data flow between ChEBI, PubChem, and GlyGen. <i>Glycobiology</i> , 2021, , .	2.5	2
50	Exploring the UniCarbKB Database. , 2017, , 197-214.		2
51	SugarBindDB. , 2017, , 247-260.		2
52	SugarBindDB, a Resource of Pathogen Lectin-Glycan Interactions. , 2014, , 1-7.		1
53	UniCarbKB: Emergent Knowledgebase for Glycomics. , 2015, , 215-222.		1
54	Glycans, the forgotten biomolecular actors of the big picture. <i>EMBnet Journal</i> , 2012, 18, 87.	0.6	1

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55	SugarBindDB, a Resource of Pathogen Lectin-Glycan Interactions. , 2014, , 1-6.		1
56	Computational Prediction of N- and O-Linked Glycosylation Sites for Human and Mouse Proteins. Methods in Molecular Biology, 2022, , 177-186.	0.9	1
57	Database search assisted N-glycan structure identification. , 2021, , 843-858.		0
58	UniCarbKB: An Emergent Knowledge Base for Glycomics. , 2014, , 1-7.		0
59	SugarBindDB SugarBindDB : Resource of Pathogen Pathogen Lectin-Glycan Interactions Lectin-glycan interactions. , 2015, , 275-282.		0
60	BioHackathon series in 2013 and 2014: improvements of semantic interoperability in life science data and services. F1000Research, 0, 8, 1677.	1.6	0