

Kiyoko F Aoki-Kinoshita

List of Publications by Year in descending order

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Version: 2024-02-01

104
papers

6,913
citations

136740

32
h-index

62479

80
g-index

115
all docs

115
docs citations

115
times ranked

8707
citing authors

#	ARTICLE	IF	CITATIONS
1	From genomics to chemical genomics: new developments in KEGG. <i>Nucleic Acids Research</i> , 2006, 34, D354-D357.	6.5	2,662
2	Symbol Nomenclature for Graphical Representations of Glycans. <i>Glycobiology</i> , 2015, 25, 1323-1324.	1.3	818
3	Updates to the Symbol Nomenclature for Glycans guidelines. <i>Glycobiology</i> , 2019, 29, 620-624.	1.3	292
4	KEGG as a glycome informatics resource. <i>Glycobiology</i> , 2006, 16, 63R-70R.	1.3	279
5	Gene Annotation and Pathway Mapping in KEGG. <i>Methods in Molecular Biology</i> , 2007, 396, 71-91.	0.4	238
6	UniCarbKB: building a knowledge platform for glycoproteomics. <i>Nucleic Acids Research</i> , 2014, 42, D215-D221.	6.5	147
7	GlyYouCan: an accessible glycan structure repository. <i>Glycobiology</i> , 2017, 27, 915-919.	1.3	123
8	GlyGen: Computational and Informatics Resources for Glycoscience. <i>Glycobiology</i> , 2020, 30, 72-73.	1.3	123
9	MIRAGE: The minimum information required for a glycomics experiment. <i>Glycobiology</i> , 2014, 24, 402-406.	1.3	116
10	GlyYouCan 1.0 – The international glycan structure repository. <i>Nucleic Acids Research</i> , 2016, 44, D1237-D1242.	6.5	83
11	GlycoPOST realizes FAIR principles for glycomics mass spectrometry data. <i>Nucleic Acids Research</i> , 2021, 49, D1523-D1528.	6.5	78
12	The GlyCosmos Portal: a unified and comprehensive web resource for the glycosciences. <i>Nature Methods</i> , 2020, 17, 649-650.	9.0	71
13	Towards a standardized bioinformatics infrastructure for N- and O-glycomics. <i>Nature Communications</i> , 2019, 10, 3275.	5.8	70
14	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.	1.3	69
15	Systems glycomics of adult zebrafish identifies organ-specific sialylation and glycosylation patterns. <i>Nature Communications</i> , 2018, 9, 4647.	5.8	65
16	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.	1.3	62
17	WURCS: The Web3 Unique Representation of Carbohydrate Structures. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 1558-1566.	2.5	61
18	Glycoproteomics. <i>Nature Reviews Methods Primers</i> , 2022, 2, .	11.8	61

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19	The RINGS Resource for Glycome Informatics Analysis and Data Mining on the Web. <i>OMICS A Journal of Integrative Biology</i> , 2010, 14, 475-486.	1.0	58
20	Toolboxes for a standardised and systematic study of glycans. <i>BMC Bioinformatics</i> , 2014, 15, S9.	1.2	58
21	The Lectin Frontier Database (LfDB), and Data Generation Based on Frontal Affinity Chromatography. <i>Molecules</i> , 2015, 20, 951-973.	1.7	56
22	UniCarbKB: Putting the pieces together for glycomics research. <i>Proteomics</i> , 2011, 11, 4117-4121.	1.3	55
23	An Introduction to Bioinformatics for Glycomics Research. <i>PLoS Computational Biology</i> , 2008, 4, e1000075.	1.5	52
24	GlycoRDF: an ontology to standardize glycomics data in RDF. <i>Bioinformatics</i> , 2015, 31, 919-925.	1.8	51
25	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.	0.9	47
26	Introducing glycomics data into the Semantic Web. <i>Journal of Biomedical Semantics</i> , 2013, 4, 39.	0.9	46
27	Global mapping of glycosylation pathways in human-derived cells. <i>Developmental Cell</i> , 2021, 56, 1195-1209.e7.	3.1	46
28	The international glycan repository GlyTouCan version 3.0. <i>Nucleic Acids Research</i> , 2021, 49, D1529-D1533.	6.5	44
29	WURCS 2.0 Update To Encapsulate Ambiguous Carbohydrate Structures. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 632-637.	2.5	43
30	Using Databases and Web Resources for Glycomics Research. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 1036-1045.	2.5	39
31	Implementation of GlycanBuilder to draw a wide variety of ambiguous glycans. <i>Carbohydrate Research</i> , 2017, 445, 104-116.	1.1	39
32	Improving MHC binding peptide prediction by incorporating binding data of auxiliary MHC molecules. <i>Bioinformatics</i> , 2006, 22, 1648-1655.	1.8	38
33	The DBCLS BioHackathon: standardization and interoperability for bioinformatics web services and workflows. <i>Journal of Biomedical Semantics</i> , 2010, 1, 8.	0.9	31
34	The GlycomeAtlas tool for visualizing and querying glycome data. <i>Bioinformatics</i> , 2012, 28, 2849-2850.	1.8	30
35	Identification of Genes Required for Neural-Specific Glycosylation Using Functional Genomics. <i>PLoS Genetics</i> , 2010, 6, e1001254.	1.5	29
36	ProfilePSTMM: capturing tree-structure motifs in carbohydrate sugar chains. <i>Bioinformatics</i> , 2006, 22, e25-e34.	1.8	28

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37	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.	1.1	28
38	The GlySpace Alliance: toward a collaborative global glycoinformatics community. <i>Glycobiology</i> , 2020, 30, 70-71.	1.3	28
39	Enhanced validation of small-molecule ligands and carbohydrates in the Protein Data Bank. <i>Structure</i> , 2021, 29, 393-400.e1.	1.6	28
40	Phenotype-based clustering of glycosylation-related genes by <i>RNA</i> -mediated gene silencing. <i>Genes To Cells</i> , 2015, 20, 521-542.	0.5	25
41	GlycanFormatConverter: a conversion tool for translating the complexities of glycans. <i>Bioinformatics</i> , 2019, 35, 2434-2440.	1.8	23
42	Overview of KEGG applications to omics-related research. <i>Journal of Pesticide Sciences</i> , 2006, 31, 296-299.	0.8	22
43	MCAW-DB: A glycan profile database capturing the ambiguity of glycan recognition patterns. <i>Carbohydrate Research</i> , 2018, 464, 44-56.	1.1	22
44	GlyGen data model and processing workflow. <i>Bioinformatics</i> , 2020, 36, 3941-3943.	1.8	22
45	A probabilistic model for mining labeled ordered trees: capturing patterns in carbohydrate sugar chains. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2005, 17, 1051-1064.	4.0	21
46	The 2nd DBCLS BioHackathon: interoperable bioinformatics Web services for integrated applications. <i>Journal of Biomedical Semantics</i> , 2011, 2, 4.	0.9	19
47	Frequent glycan structure mining of influenza virus data revealed a sulfated glycan motif that increased viral infection. <i>Bioinformatics</i> , 2014, 30, 706-711.	1.8	18
48	A gram distribution kernel applied to glycan classification and motif extraction. <i>Genome Informatics</i> , 2006, 17, 25-34.	0.4	16
49	A weighted q-gram method for glycan structure classification. <i>BMC Bioinformatics</i> , 2010, 11, S33.	1.2	15
50	Implementation of linked data in the life sciences at BioHackathon 2011. <i>Journal of Biomedical Semantics</i> , 2015, 6, 3.	0.9	15
51	Glycomic Analysis Using KEGG GLYCAN. <i>Methods in Molecular Biology</i> , 2015, 1273, 97-107.	0.4	15
52	A consensus-based and readable extension of <i>Li</i> near <i>Co</i> de for <i>R</i> reaction <i>rules</i> (LiCoRR). <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 2645-2662.	1.3	14
53	A systematic framework to derive N-glycan biosynthesis process and the automated construction of glycosylation networks. <i>BMC Bioinformatics</i> , 2016, 17, 240.	1.2	13
54	Development and application of an algorithm to compute weighted multiple glycan alignments. <i>Bioinformatics</i> , 2017, 33, 1317-1323.	1.8	13

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55	Bioinformatics approaches in glycomics and drug discovery. <i>Current Opinion in Molecular Therapeutics</i> , 2006, 8, 514-20.	2.8	12
56	LM-GlycomeAtlas Ver. 1.0: A Novel Visualization Tool for Lectin Microarray-Based Glycomic Profiles of Mouse Tissue Sections. <i>Molecules</i> , 2019, 24, 2962.	1.7	11
57	A new efficient probabilistic model for mining labeled ordered trees applied to glycobiology. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2008, 2, 1-30.	2.5	10
58	GlycoGene Database (GGDB) on the Semantic Web. , 2017, , 163-175.		10
59	A new efficient probabilistic model for mining labeled ordered trees. , 2006, , .		9
60	Mining Frequent Subtrees in Glycan Data Using the Rings Glycan Miner Tool. <i>Methods in Molecular Biology</i> , 2013, 939, 87-95.	0.4	9
61	The Fifth ACGG-DB Meeting Report: Towards an International Glycan Structure Repository. <i>Glycobiology</i> , 2013, 23, 1422-1424.	1.3	8
62	Knowledge discovery for pancreatic cancer using inductive logic programming. <i>IET Systems Biology</i> , 2014, 8, 162-168.	0.8	8
63	An Efficient Unordered Tree Kernel and Its Application to Glycan Classification. , 2008, , 184-195.		8
64	The glycoconjugate ontology (GlycoCoO) for standardizing the annotation of glycoconjugate data and its application. <i>Glycobiology</i> , 2021, 31, 741-750.	1.3	7
65	Extracting glycan motifs using a biochemically-weighted kernel. <i>Bioinformatics</i> , 2011, 7, 405-412.	0.2	7
66	A global representation of the carbohydrate structures: a tool for the analysis of glycan. <i>Genome Informatics</i> , 2005, 16, 214-22.	0.4	7
67	Introduction to Informatics in Glycoprotein Analysis. <i>Methods in Molecular Biology</i> , 2013, 951, 257-267.	0.4	6
68	Multiple Tree Alignment with Weights Applied to Carbohydrates to Extract Binding Recognition Patterns. <i>Lecture Notes in Computer Science</i> , 2012, , 49-58.	1.0	6
69	The Glycome Analytics Platform: an integrative framework for glycobioinformatics. <i>Bioinformatics</i> , 2016, 32, 3005-3011.	1.8	5
70	Analyzing Glycan Structure Synthesis with the Glycan Pathway Predictor (GPP) Tool. <i>Methods in Molecular Biology</i> , 2015, 1273, 139-147.	0.4	5
71	SugarDrawer: A Web-Based Database Search Tool with Editing Glycan Structures. <i>Molecules</i> , 2021, 26, 7149.	1.7	5
72	Using glycome databases for drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2008, 3, 877-890.	2.5	4

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73	Support Vector Machine Methods for the Prediction of Cancer Growth. , 2010, , .		4
74	Identification of Proteasome Components Required for Apical Localization of Chaoptin Using Functional Genomics. Journal of Neurogenetics, 2012, 26, 53-63.	0.6	4
75	Development of Carbohydrate Nomenclature and Representation. , 2017, , 7-25.		4
76	Glycome informatics: using systems biology to gain mechanistic insights into glycan biosynthesis. Current Opinion in Chemical Engineering, 2021, 32, 100683.	3.8	4
77	Analyzing Glycan-Binding Patterns with the ProfilePSTMM Tool. Methods in Molecular Biology, 2015, 1273, 193-202.	0.4	4
78	Computational Modeling of O-Linked Glycan Biosynthesis in CHO Cells. Molecules, 2022, 27, 1766.	1.7	4
79	Modeling genetic regulatory networks: a delay discrete dynamical model approach. Journal of Systems Science and Complexity, 2012, 25, 1052-1067.	1.6	3
80	LM-GlycomeAtlas Ver. 2.0: An Integrated Visualization for Lectin Microarray-based Mouse Tissue Glycome Mapping Data with Lectin Histochemistry. Journal of Proteome Research, 2021, 20, 2069-2075.	1.8	3
81	CarbArrayART: a new software tool for carbohydrate microarray data storage, processing, presentation, and reporting. Glycobiology, 2022, 32, 552-555.	1.3	3
82	Latest developments in Semantic Web technologies applied to the glycosciences. Perspectives in Science, 2017, 11, 18-23.	0.6	2
83	Glycoinformatics Resources Integrated Through the GlySpace Alliance. , 2021, , 507-521.		2
84	Using KEGG in the Transition from Genomics to Chemical Genomics. , 2009, , 437-452.		2
85	PAConto: RDF Representation of PACDB Data and Ontology of Infectious Diseases Known to Be Related to Glycan Binding. , 2017, , 261-295.		2
86	Using GlyTouCan Version 1.0: The First International Glycan Structure Repository. , 2017, , 41-73.		2
87	GlycoBioinformatics. Beilstein Journal of Organic Chemistry, 2021, 17, 2726-2728.	1.3	2
88	Trends and Future Perspectives for Glycoinformatics. Trends in Glycoscience and Glycotechnology, 2014, 26, 89-97.	0.0	1
89	Analyzing Glycan-Binding Profiles Using Weighted Multiple Alignment of Trees. Methods in Molecular Biology, 2018, 1807, 131-140.	0.4	1
90	Glycoinformatics: Overview. , 2015, , 185-192.		1

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91	Functional glyco-metagenomics elucidates the role of glycan-related genes in environments. BMC Bioinformatics, 2021, 22, 505.	1.2	1
92	A 6-Approximation Algorithm for Computing Smallest Common AoN-Supertree with Application to the Reconstruction of Glycan Trees. Lecture Notes in Computer Science, 2006, , 100-110.	1.0	1
93	RINGS: A Web Resource of Tools for Analyzing Glycomics Data. , 2017, , 299-334.		1
94	Bioinformatics Analysis of Glycan Structures from a Genomic Perspective. , 0, , 125-141.		0
95	On using physico-chemical properties of amino acids in string kernels for protein classification via support vector machines. Journal of Systems Science and Complexity, 2015, 28, 504-516.	1.6	0
96	Glycoinformatics Overview. , 2014, , 1-8.		0
97	RINGS Bioinformatics. , 2015, , 201-207.		0
98	2 nd FCCA Symposium/Annual Forum for Young Glyco-Scientists 2015. Trends in Glycoscience and Glycotechnology, 2015, 27, E63-E64.	0.0	0
99	Educational Materials and Training for Glycosciences. , 2019, , 355-368.		0
100	BioHackathon series in 2013 and 2014: improvements of semantic interoperability in life science data and services. F1000Research, 0, 8, 1677.	0.8	0
101	Glycan Bioinformatics: Informatics Methods for Understanding Glycan Function. , 2021, , .		0
102	RDFizing the biosynthetic pathway of E.coli O-antigen to enable semantic sharing of microbiology data. BMC Microbiology, 2021, 21, 325.	1.3	0
103	Development of a novel monosaccharide substitution matrix for improved comparison of glycan structures. Carbohydrate Research, 2022, 511, 108496.	1.1	0
104	OUP accepted manuscript. Glycobiology, 2022, , .	1.3	0