Kiyoko F Aoki-Kinoshita

List of Publications by Year
in descending order

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	Development of a novel monosaccharide substitution matrix for improved comparison of glycan structures. Carbohydrate Research, 2022, 511, 108496.	1.1	0
2	Computational Modeling of O-Linked Glycan Biosynthesis in CHO Cells. Molecules, 2022, 27, 1766.	1.7	4
3	CarbArrayART: a new software tool for carbohydrate microarray data storage, processing, presentation, and reporting. Glycobiology, 2022, 32, 552-555.	1.3	3
4	OUP accepted manuscript. Glycobiology, 2022, , .	1.3	0
5	Glycoproteomics. Nature Reviews Methods Primers, 2022, 2, .	11.8	61
6	Glycoinformatics Resources Integrated Through the GlySpace Alliance. , 2021, , 507-521.		2
7	The glycoconjugate ontology (GlycoCoO) for standardizing the annotation of glycoconjugate data and its application. Glycobiology, 2021, 31, 741-750.	1.3	7
8	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
9	Global mapping of glycosylation pathways in human-derived cells. Developmental Cell, 2021, 56, 1195-1209.e7.	3.1	46
10	Enhanced validation of small-molecule ligands and carbohydrates in the Protein Data Bank. Structure, 2021, 29, 393-400.e1.	1.6	28
11	Glycome informatics: using systems biology to gain mechanistic insights into glycan biosynthesis. Current Opinion in Chemical Engineering, 2021, 32, 100683.	3.8	4
12	GlycoPOST realizes FAIR principles for glycomics mass spectrometry data. Nucleic Acids Research, 2021, 49, D1523-D1528.	6.5	78
13	The international glycan repository GlyTouCan version 3.0. Nucleic Acids Research, 2021, 49, D1529-D1533.	6.5	44
14	Functional glyco-metagenomics elucidates the role of glycan-related genes in environments. BMC Bioinformatics, 2021, 22, 505.	1.2	1
15	Glycan Bioinformatics: Informatics Methods for Understanding Glycan Function. , 2021, , .		0
16	GlycoBioinformatics. Beilstein Journal of Organic Chemistry, 2021, 17, 2726-2728.	1.3	2
17	SugarDrawer: A Web-Based Database Search Tool with Editing Glycan Structures. Molecules, 2021, 26, 7149.	1.7	5
18	RDFizing the biosynthetic pathway of E.coli O-antigen to enable semantic sharing of microbiology data. BMC Microbiology, 2021, 21, 325.	1.3	0

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19	The GlySpace Alliance: toward a collaborative global glycoinformatics community. Glycobiology, 2020, 30, 70-71.	1.3	28
20	GlyGen: Computational and Informatics Resources for Glycoscience. Glycobiology, 2020, 30, 72-73.	1.3	123
21	A consensus-based and readable extension of *Li*near *Co*de for *R*eaction *R*ules (LiCoRR). Beilstein Journal of Organic Chemistry, 2020, 16, 2645-2662.	1.3	14
22	The GlyCosmos Portal: a unified and comprehensive web resource for the glycosciences. Nature Methods, 2020, 17, 649-650.	9.0	71
23	GlyGen data model and processing workflow. Bioinformatics, 2020, 36, 3941-3943.	1.8	22
24	Towards a standardized bioinformatics infrastructure for N- and O-glycomics. Nature Communications, 2019, 10, 3275.	5.8	70
25	LM-GlycomeAtlas Ver. 1.0: A Novel Visualization Tool for Lectin Microarray-Based Glycomic Profiles of Mouse Tissue Sections. Molecules, 2019, 24, 2962.	1.7	11
26	Updates to the Symbol Nomenclature for Glycans guidelines. Glycobiology, 2019, 29, 620-624.	1.3	292
27	GlycanFormatConverter: a conversion tool for translating the complexities of glycans. Bioinformatics, 2019, 35, 2434-2440.	1.8	23
28	Educational Materials and Training for Glycosciences. , 2019, , 355-368.		0
29	Systems glycomics of adult zebrafish identifies organ-specific sialylation and glycosylation patterns. Nature Communications, 2018, 9, 4647.	5.8	65
30	MCAW-DB: A glycan profile database capturing the ambiguity of glycan recognition patterns. Carbohydrate Research, 2018, 464, 44-56.	1.1	22
31	Analyzing Glycan-Binding Profiles Using Weighted Multiple Alignment of Trees. Methods in Molecular Biology, 2018, 1807, 131-140.	0.4	1
32	The minimum information required for a glycomics experiment (MIRAGE) project: improving the standards for reporting glycan microarray-based data. Glycobiology, 2017, 27, 280-284.	1.3	69
33	Implementation of GlycanBuilder to draw a wide variety of ambiguous glycans. Carbohydrate Research, 2017, 445, 104-116.	1.1	39
34	Development and application of an algorithm to compute weighted multiple glycan alignments. Bioinformatics, 2017, 33, 1317-1323.	1.8	13
35	WURCS 2.0 Update To Encapsulate Ambiguous Carbohydrate Structures. Journal of Chemical Information and Modeling, 2017, 57, 632-637.	2.5	43
36	Development of Carbohydrate Nomenclature and Representation. , 2017, , 7-25.		4

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37	GlyTouCan: an accessible glycan structure repository. Glycobiology, 2017, 27, 915-919.	1.3	123
38	Latest developments in Semantic Web technologies applied to the glycosciences. Perspectives in Science, 2017, 11, 18-23.	0.6	2
39	GlycoGene Database (GGDB) on the Semantic Web. , 2017, , 163-175.		10
40	PAConto: RDF Representation of PACDB Data and Ontology of Infectious Diseases Known to Be Related to Glycan Binding. , 2017, , 261-295.		2
41	Using GlyTouCan Version 1.0: The First International Glycan Structure Repository. , 2017, , 41-73.		2
42	RINGS: A Web Resource of Tools for Analyzing Glycomics Data. , 2017, , 299-334.		1
43	The minimum information required for a glycomics experiment (MIRAGE) project: sample preparation guidelines for reliable reporting of glycomics datasets. Glycobiology, 2016, 26, 907-910.	1.3	62
44	Comprehensive analysis of the N-glycan biosynthetic pathway using bioinformatics to generate UniCorn: A theoretical N-glycan structure database. Carbohydrate Research, 2016, 431, 56-63.	1.1	28
45	A systematic framework to derive N-glycan biosynthesis process and the automated construction of glycosylation networks. BMC Bioinformatics, 2016, 17, 240.	1.2	13
46	The Glycome Analytics Platform: an integrative framework for glycobioinformatics. Bioinformatics, 2016, 32, 3005-3011.	1.8	5
47	GlyTouCan 1.0 â€" The international glycan structure repository. Nucleic Acids Research, 2016, 44, D1237-D1242.	6.5	83
48	Phenotypeâ€based clustering of glycosylationâ€related genes by <scp>RNA</scp>iâ€mediated gene silencing. Genes To Cells, 2015, 20, 521-542.	0.5	25
49	Implementation of linked data in the life sciences at BioHackathon 2011. Journal of Biomedical Semantics, 2015, 6, 3.	0.9	15
50	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
51	The Lectin Frontier Database (LfDB), and Data Generation Based on Frontal Affinity Chromatography. Molecules, 2015, 20, 951-973.	1.7	56
52	Symbol Nomenclature for Graphical Representations of Glycans. Glycobiology, 2015, 25, 1323-1324.	1.3	818
53	GlycoRDF: an ontology to standardize glycomics data in RDF. Bioinformatics, 2015, 31, 919-925.	1.8	51
54	Analyzing Glycan Structure Synthesis with the Glycan Pathway Predictor (GPP) Tool. Methods in Molecular Biology, 2015, 1273, 139-147.	0.4	5

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55	Analyzing Glycan-Binding Patterns with the ProfilePSTMM Tool. Methods in Molecular Biology, 2015, 1273, 193-202.	0.4	4
56	Glycomic Analysis Using KEGG GLYCAN. Methods in Molecular Biology, 2015, 1273, 97-107.	0.4	15
57	Glycoinformatics: Overview. , 2015, , 185-192.		1
58	RINGS Bioinformatics. , 2015, , 201-207.		0
59	2nd FCCA Symposium/Annual Forum for Young Glyco-Scientists 2015. Trends in Glycoscience and Glycotechnology, 2015, 27, E63-E64.	0.0	0
60	Trends and Future Perspectives for Glycoinformatics. Trends in Glycoscience and Glycotechnology, 2014, 26, 89-97.	0.0	1
61	MIRAGE: The minimum information required for a glycomics experiment. Glycobiology, 2014, 24, 402-406.	1.3	116
62	Knowledge discovery for pancreatic cancer using inductive logic programming. IET Systems Biology, 2014, 8, 162-168.	0.8	8
63	BioHackathon series in 2011 and 2012: penetration of ontology and linked data in life science domains. Journal of Biomedical Semantics, 2014, 5, 5.	0.9	47
64	Toolboxes for a standardised and systematic study of glycans. BMC Bioinformatics, 2014, 15, S9.	1.2	58
65	WURCS: The Web3 Unique Representation of Carbohydrate Structures. Journal of Chemical Information and Modeling, 2014, 54, 1558-1566.	2.5	61
66	UniCarbKB: building a knowledge platform for glycoproteomics. Nucleic Acids Research, 2014, 42, D215-D221.	6.5	147
67	Frequent glycan structure mining of influenza virus data revealed a sulfated glycan motif that increased viral infection. Bioinformatics, 2014, 30, 706-711.	1.8	18
68	Glycoinformatics Overview. , 2014, , 1-8.		0
69	Introducing glycomics data into the Semantic Web. Journal of Biomedical Semantics, 2013, 4, 39.	0.9	46
70	Introduction to Informatics in Glycoprotein Analysis. Methods in Molecular Biology, 2013, 951, 257-267.	0.4	6
71	Mining Frequent Subtrees in Glycan Data Using the Rings Glycan Miner Tool. Methods in Molecular Biology, 2013, 939, 87-95.	0.4	9
72	The Fifth ACGG-DB Meeting Report: Towards an International Glycan Structure Repository. Glycobiology, 2013, 23, 1422-1424.	1.3	8

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73	Using Databases and Web Resources for Glycomics Research. Molecular and Cellular Proteomics, 2013, 12, 1036-1045.	2.5	39
74	The GlycomeAtlas tool for visualizing and querying glycome data. Bioinformatics, 2012, 28, 2849-2850.	1.8	30
75	Identification of Proteasome Components Required for Apical Localization of Chaoptin Using Functional Genomics. Journal of Neurogenetics, 2012, 26, 53-63.	0.6	4
76	Modeling genetic regulatory networks: a delay discrete dynamical model approach. Journal of Systems Science and Complexity, 2012, 25, 1052-1067.	1.6	3
77	Multiple Tree Alignment with Weights Applied to Carbohydrates to Extract Binding Recognition Patterns. Lecture Notes in Computer Science, 2012, , 49-58.	1.0	6
78	The 2nd DBCLS BioHackathon: interoperable bioinformatics Web services for integrated applications. Journal of Biomedical Semantics, 2011, 2, 4.	0.9	19
79	UniCarbKB: Putting the pieces together for glycomics research. Proteomics, 2011, 11, 4117-4121.	1.3	55
80	Extracting glycan motifs using a biochemically-weighted kernel. Bioinformation, 2011, 7, 405-412.	0.2	7
81	A weighted q-gram method for glycan structure classification. BMC Bioinformatics, 2010, 11, S33.	1.2	15
82	The DBCLS BioHackathon: standardization and interoperability for bioinformatics web services and workflows. Journal of Biomedical Semantics, 2010, 1, 8.	0.9	31
83	Identification of Genes Required for Neural-Specific Glycosylation Using Functional Genomics. PLoS Genetics, 2010, 6, e1001254.	1.5	29
84	Support Vector Machine Methods for the Prediction of Cancer Growth. , 2010, , .		4
85	The RINGS Resource for Glycome Informatics Analysis and Data Mining on the Web. OMICS A Journal of Integrative Biology, 2010, 14, 475-486.	1.0	58
86	Using KEGG in the Transition from Genomics to Chemical Genomics. , 2009, , 437-452.		2
87	Using glycome databases for drug discovery. Expert Opinion on Drug Discovery, 2008, 3, 877-890.	2.5	4
88	A new efficient probabilistic model for mining labeled ordered trees applied to glycobiology. ACM Transactions on Knowledge Discovery From Data, 2008, 2, 1-30.	2.5	10
89	An Introduction to Bioinformatics for Glycomics Research. PLoS Computational Biology, 2008, 4, e1000075.	1.5	52
90	An Efficient Unordered Tree Kernel and Its Application to Glycan Classification. , 2008, , 184-195.		8

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91	Gene Annotation and Pathway Mapping in KEGG. Methods in Molecular Biology, 2007, 396, 71-91.	0.4	238
92	From genomics to chemical genomics: new developments in KEGG. Nucleic Acids Research, 2006, 34, D354-D357.	6.5	2,662
93	Overview of KEGG applications to omics-related research. Journal of Pesticide Sciences, 2006, 31, 296-299.	0.8	22
94	ProfilePSTMM: capturing tree-structure motifs in carbohydrate sugar chains. Bioinformatics, 2006, 22, e25-e34.	1.8	28
95	A new efficient probabilistic model for mining labeled ordered trees. , 2006, , .		9
96	KEGG as a glycome informatics resource. Glycobiology, 2006, 16, 63R-70R.	1.3	279
97	Improving MHC binding peptide prediction by incorporating binding data of auxiliary MHC molecules. Bioinformatics, 2006, 22, 1648-1655.	1.8	38
98	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
99	Bioinformatics approaches in glycomics and drug discovery. Current Opinion in Molecular Therapeutics, 2006, 8, 514-20.	2.8	12
100	A gram distribution kernel applied to glycan classification and motif extraction. Genome Informatics, 2006, 17, 25-34.	0.4	16
101	A probabilistic model for mining labeled ordered trees: capturing patterns in carbohydrate sugar chains. IEEE Transactions on Knowledge and Data Engineering, 2005, 17, 1051-1064.	4.0	21
102	A global representation of the carbohydrate structures: a tool for the analysis of glycan. Genome Informatics, 2005, 16, 214-22.	0.4	7
103	Bioinformatics Analysis of Glycan Structures from a Genomic Perspective. , 0, , 125-141.		0
104	BioHackathon series in 2013 and 2014: improvements of semantic interoperability in life science data and services. F1000Research, 0, 8, 1677.	0.8	0