

Yasuhiro Kajihara

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Optimization of Semisynthetic Approach for Glycosyl Interferon- β -polypeptide by Utilizing Bacterial Protein Expression and Chemical Modification. <i>Organic and Biomolecular Chemistry</i> , 2022, , .	2.8	2
2	Semisynthesis of a Homogeneous Glycoprotein Using Chemical Transformation of Peptides to Thioester Surrogates. <i>Journal of Organic Chemistry</i> , 2022, 87, 114-124.	3.2	6
3	Glycoprotein Semisynthesis by Chemical Insertion of Glycosyl Asparagine Using a Bifunctional Thioacid-Mediated Strategy. <i>Journal of the American Chemical Society</i> , 2021, 143, 10157-10167.	13.7	14
4	Chemical Synthesis and Characterization of a Nonfibrillating Glycoglucagon. <i>Bioconjugate Chemistry</i> , 2021, 32, 2148-2153.	3.6	2
5	Purified EDEM3 or EDEM1 alone produces determinant oligosaccharide structures from M8B in mammalian glycoprotein ERAD. <i>ELife</i> , 2021, 10, .	6.0	9
6	Total Chemical Synthesis of a Nonfibrillating Human Glycoinsulin. <i>Journal of the American Chemical Society</i> , 2020, 142, 1164-1169.	13.7	41
7	Chemical Synthesis of Ubiquitinated High-Mannose-Type N-Glycoprotein CCL1 in Different Folding States. <i>Journal of Organic Chemistry</i> , 2020, 85, 16024-16034.	3.2	3
8	Chemical Synthesis of an Erythropoietin Glycoform Having a Triantennary <i>N</i> -Glycan: Significant Change of Biological Activity of Glycoprotein by Addition of a Small Molecular Weight Trisaccharide. <i>Journal of the American Chemical Society</i> , 2020, 142, 20671-20679.	13.7	33
9	Chemical-Based Approach to Glycoprotein Functions in the Endoplasmic Reticulum. <i>Chemistry - A European Journal</i> , 2020, 26, 15461-15470.	3.3	12
10	Ultra-large chemical libraries for the discovery of high-affinity peptide binders. <i>Nature Communications</i> , 2020, 11, 3183.	12.8	73
11	Identification of the epitope of 10-7G glycan antibody to recognize cancer-associated haptoglobin. <i>Analytical Biochemistry</i> , 2020, 593, 113588.	2.4	7
12	Acceleration and Deceleration Factors on the Hydrolysis Reaction of 4,6-O-Benzylidene Acetal Group. <i>Journal of Organic Chemistry</i> , 2020, 85, 15849-15856.	3.2	7
13	Studies for Elucidation of Oligosaccharide Functions of Glycoproteins. Yuki Gosei Kagaku Kyokaiishi/ <i>Journal of Synthetic Organic Chemistry</i> , 2020, 78, 1021-1038.	0.1	0
14	A Chemoselective Peptide Bond Formation by Amino Thioacid Coupling. <i>Chemistry Letters</i> , 2019, 48, 1391-1393.	1.3	1
15	Chemical Modification of the N Termini of Unprotected Peptides for Semisynthesis of Modified Proteins by Utilizing a Hydrophilic Protecting Group. <i>Chemistry - A European Journal</i> , 2019, 25, 10197-10203.	3.3	7
16	N,N-Dimethylaminoxy Carbonyl, a Polar Protecting Group for Efficient Peptide Synthesis. <i>Frontiers in Chemistry</i> , 2019, 7, 173.	3.6	0
17	Regioselective α -Peptide Bond Formation Through the Oxidation of Amino Thioacids. <i>Biochemistry</i> , 2019, 58, 1672-1678.	2.5	13
18	Recent Chemical Glycoprotein Syntheses. <i>Trends in Glycoscience and Glycotechnology</i> , 2019, 31, SE25-SE27.	0.1	1

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19	Glycoengineering. , 2019, , 145-166.		0
20	Chemical and Enzymatic Synthesis and Production of Glycans. , 2019, , 65-86.		0
21	Recent Chemical Glycoprotein Syntheses. Trends in Glycoscience and Glycotechnology, 2019, 31, SJ25-SJ27.	0.1	0
22	Semisynthesis of Complex-Type Biantennary Oligosaccharides Containing Lactosamine Repeating Units from a Biantennary Oligosaccharide Isolated from a Natural Source. Journal of Organic Chemistry, 2018, 83, 443-451.	3.2	9
23	Monitoring of Glycoprotein Quality Control System with a Series of Chemically Synthesized Homogeneous Native and Misfolded Glycoproteins. Journal of the American Chemical Society, 2018, 140, 17499-17507.	13.7	31
24	Effects of N-Glycans on Glycoprotein Folding and Protein Dynamics. Advances in Experimental Medicine and Biology, 2018, 1104, 1-19.	1.6	2
25	Recent advances in the chemical synthesis of N-linked glycoproteins. Current Opinion in Chemical Biology, 2018, 46, 130-137.	6.1	37
26	Chemical Synthesis of Glycoproteins with the Specific Installation of Gradient ¹⁵ -Enriched ¹⁵ N-Labeled Amino Acids for Getting Insights into Glycoprotein Behavior. Chemistry - A European Journal, 2017, 23, 6579-6585.	3.3	8
27	Total Synthesis of ¹⁵ O-GalNAcylated Antifreeze Glycoprotein using the Switchable Reactivity of Peptidyl ¹⁵ N- ϵ -pivaloylguanidine. Chemistry - A European Journal, 2017, 23, 9253-9257.	3.3	9
28	Substrate Recognition of Glycoprotein Folding Sensor UGGT Analyzed by Site-Specifically ¹⁵ N-Labeled Glycopeptide and Small Glycopeptide Library Prepared by Parallel Native Chemical Ligation. Journal of the American Chemical Society, 2017, 139, 11421-11426.	13.7	23
29	Synthesis of misfolded glycoprotein dimers through native chemical ligation of a dimeric peptide thioester. Organic and Biomolecular Chemistry, 2016, 14, 6088-6094.	2.8	7
30	Direct assay for endo- β -mannosidase substrate preference on correctly folded and misfolded model glycoproteins. Carbohydrate Research, 2016, 434, 94-98.	2.3	6
31	¹⁵ N-Amino Acid Scan of Two Small Proteins. Journal of the American Chemical Society, 2016, 138, 12099-12111.	13.7	30
32	Effects of domain composition on catalytic activity of human UDP-glucose:glycoprotein glucosyltransferases. Glycobiology, 2016, 26, 999-1006.	2.5	16
33	Studies on the Precise Chemical Synthesis of Human Glycoproteins. Bulletin of the Chemical Society of Japan, 2016, 89, 409-423.	3.2	7
34	An efficient solid-phase synthesis of peptidyl ¹⁵ N- ϵ -acetylguanidines for use in native chemical ligation. Journal of Peptide Science, 2016, 22, 343-351.	1.4	7
35	Synthesis of Glc ₁ Man ₉ -Glycoprotein Probes by a Misfolding/Enzymatic Glucosylation/Misfolding Sequence. Angewandte Chemie - International Edition, 2016, 55, 3968-3971.	13.8	15
36	Evaluation of the effect of post-translational modification toward protein structure: Chemical synthesis of glycosyl crambins having either a high mannose-type or a complex-type oligosaccharide. Biopolymers, 2016, 106, 446-452.	2.4	3

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37	Synthesis of Glc ₁ Man ₉ Glycoprotein Probes by a Misfolding/Enzymatic Glucosylation/Misfolding Sequence. <i>Angewandte Chemie</i> , 2016, 128, 4036-4039.	2.0	6
38	Chemical synthesis of erythropoietin glycoforms for insights into the relationship between glycosylation pattern and bioactivity. <i>Science Advances</i> , 2016, 2, e1500678.	10.3	102
39	Semisynthesis of Intact Complex-Type Triantennary Oligosaccharides from a Biantennary Oligosaccharide Isolated from a Natural Source by Selective Chemical and Enzymatic Glycosylation. <i>Journal of the American Chemical Society</i> , 2016, 138, 3461-3468.	13.7	41
40	Efficient Synthesis of L-galactose from D-galactose. <i>Journal of Carbohydrate Chemistry</i> , 2015, 34, 560-566.	1.1	3
41	Functional analysis of endoplasmic reticulum glucosyltransferase (UGGT): Synthetic chemistry's initiative in glycobiology. <i>Seminars in Cell and Developmental Biology</i> , 2015, 41, 90-98.	5.0	46
42	Chemical Synthesis of Homogeneous Glycoproteins for the Study of Glycoprotein Quality Control System. <i>Israel Journal of Chemistry</i> , 2015, 55, 306-314.	2.3	4
43	Synthesis of d, l-amino acid derivatives bearing a thiol at the β -position and their enzymatic optical resolution. <i>Tetrahedron Letters</i> , 2015, 56, 6565-6568.	1.4	6
44	Chemical Synthesis of Homogeneous Glycoproteins. , 2015, , 313-321.		1
45	Semisynthesis of a Posttranslationally Modified Protein by Using Chemical Cleavage and Activation of an Expressed Fusion Polypeptide. <i>Chemistry - A European Journal</i> , 2014, 20, 10425-10430.	3.3	15
46	(Quasi)Racemic X-ray Structures of Glycosylated and Non-Glycosylated Forms of the Chemokine Ser-CCL1 Prepared by Total Chemical Synthesis. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5194-5198.	13.8	59
47	Safe and efficient Boc-SPPS for the synthesis of glycopeptide-thioesters. <i>Journal of Peptide Science</i> , 2014, 20, 98-101.	1.4	17
48	Folding of Synthetic Homogeneous Glycoproteins in the Presence of a Glycoprotein Folding Sensor Enzyme. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2883-2887.	13.8	38
49	Total Chemical Synthesis and Biological Activities of Glycosylated and Non-Glycosylated Forms of the Chemokines CCL1 and Ser-CCL1. <i>Angewandte Chemie - International Edition</i> , 2014, 53, n/a-n/a.	13.8	43
50	Efficient synthesis of polypeptide-thioester by the method combining polypeptide expression and chemical activation for the semi-synthesis of interferon- β having oligosaccharides. <i>Journal of Peptide Science</i> , 2014, 20, 958-963.	1.4	20
51	Decoration of proteins with sugar chains: recent advances in glycoprotein synthesis. <i>Current Opinion in Chemical Biology</i> , 2014, 22, 92-99.	6.1	22
52	Both isoforms of human UDP-glucose:glycoprotein glucosyltransferase are enzymatically active. <i>Glycobiology</i> , 2014, 24, 344-350.	2.5	66
53	Chemical Synthesis of a Synthetic Analogue of the Sialic Acid-Binding Lectin Siglec-7. <i>ChemBioChem</i> , 2014, 15, 2503-2507.	2.6	4
54	Chemical Synthesis of Homogeneous Glycoproteins. , 2014, , 1-8.		0

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55	Chemical assembly of N-glycoproteins: a refined toolbox to address a ubiquitous posttranslational modification. <i>Chemical Society Reviews</i> , 2013, 42, 4408.	38.1	203
56	Misfolded Glycoproteins as Probes for Analysis of Folding Sensor Enzyme UDP-Glucose. <i>Trends in Glycoscience and Glycotechnology</i> , 2013, 25, 1-12.	0.1	6
57	Efficient synthesis of glycopeptide- β -thioesters with a high-mannose type oligosaccharide by means of tert-Boc-solid phase peptide synthesis. <i>Carbohydrate Research</i> , 2012, 364, 41-48.	2.3	38
58	Chemical Synthesis of Intentionally Misfolded Homogeneous Glycoprotein: A Unique Approach for the Study of Glycoprotein Quality Control. <i>Journal of the American Chemical Society</i> , 2012, 134, 7238-7241.	13.7	66
59	Innenteilbild: Chemical Synthesis of an Erythropoietin Glycoform Containing a Complex-type Disialyloligosaccharide (<i>Angew. Chem.</i> 15/2012). <i>Angewandte Chemie</i> , 2012, 124, 3552-3552.	2.0	0
60	Chemical Synthesis of an Erythropoietin Glycoform Containing a Complex-type Disialyloligosaccharide. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3567-3572.	13.8	135
61	Inside Cover: Chemical Synthesis of an Erythropoietin Glycoform Containing a Complex-type Disialyloligosaccharide (<i>Angew. Chem. Int. Ed.</i> 15/2012). <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3494-3494.	13.8	2
62	Homogeneous Human Complex-type Oligosaccharides in Correctly Folded Intact Glycoproteins: Evaluation of Oligosaccharide Influence On Protein Folding, Stability, and Conformational Properties. <i>Chemistry - A European Journal</i> , 2012, 18, 5944-5953.	3.3	18
63	Chemical Synthesis of Homogeneous Human Glycosyl-interferon- β That Exhibits Potent Antitumor Activity in Vivo. <i>Journal of the American Chemical Society</i> , 2012, 134, 5428-5431.	13.7	111
64	A Synthetic Approach to a Peptide β -thioester from an Unprotected Peptide through Cleavage and Activation of a Specific Peptide Bond by N-acetylguanidine. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 191-196.	13.8	47
65	Semisynthesis of Erythropoietin Analog Having Three Oligosaccharides. <i>Journal of Carbohydrate Chemistry</i> , 2011, 30, 306-319.	1.1	10
66	Elucidating the Function of Complex-type Oligosaccharides by Use of Chemical Synthesis of Homogeneous Glycoproteins. <i>Israel Journal of Chemistry</i> , 2011, 51, 917-929.	2.3	6
67	Unique Self-anhydride Formation in the Degradation of Cytidine-5'-monophosphosialic Acid (CMP-Neu5Ac) and Cytidine-5'-diphosphosialic Acid (CDP-Neu5Ac) and its Application in CMP-sialic Acid Analogue Synthesis. <i>Chemistry - A European Journal</i> , 2011, 17, 7645-7655.	1.3	16
68	Expanding the Scope of Native Chemical Ligation in Glycopeptide Synthesis. <i>International Journal of Peptide Research and Therapeutics</i> , 2010, 16, 191-198.	1.9	7
69	Unique cleavage of 2-acetamido-2-deoxy-d-glucose from the reducing end of biantennary complex type oligosaccharides. <i>Carbohydrate Research</i> , 2010, 345, 1702-1707.	2.3	8
70	Chemical synthesis of homogeneous glycopeptides and glycoproteins. <i>Chemical Record</i> , 2010, 10, 80-100.	5.8	28
71	Synthesis of Heavily Glycosylated Peptide β -thioester. <i>Journal of Carbohydrate Chemistry</i> , 2010, 29, 84-91.	1.1	5
72	An β -2,3-Sialyltransferase from <i>Photobacterium</i> sp. JT-ISH-224 Transfers N-Acetylneuraminic Acid to Both the O-2 and O-3 Hydroxyl Groups of Lactose. <i>Journal of Carbohydrate Chemistry</i> , 2010, 29, 51-60.	1.1	12

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73	Synthesis of Glycopeptides. <i>Methods in Enzymology</i> , 2010, 478, 503-519.	1.0	6
74	Definitive evidence that a single N-glycan among three glycans on inducible costimulator is required for proper protein trafficking and ligand binding. <i>Biochemical and Biophysical Research Communications</i> , 2010, 391, 557-563.	2.1	10
75	Protein Cysteine Modifications: (2) Reactivity Specificity and Topics of Medicinal Chemistry and Protein Engineering. <i>Current Medicinal Chemistry</i> , 2009, 16, 4490-4501.	2.4	22
76	Innentitelbild: Design and Synthesis of a Homogeneous Erythropoietin Analogue with Two Human Complex-Type Sialyloligosaccharides: Combined Use of Chemical and Bacterial Protein Expression Methods (<i>Angew. Chem.</i> 50/2009). <i>Angewandte Chemie</i> , 2009, 121, 9542-9542.	2.0	0
77	Design and Synthesis of a Homogeneous Erythropoietin Analogue with Two Human Complex-Type Sialyloligosaccharides: Combined Use of Chemical and Bacterial Protein Expression Methods. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9557-9560.	13.8	82
78	Inside Cover: Design and Synthesis of a Homogeneous Erythropoietin Analogue with Two Human Complex-Type Sialyloligosaccharides: Combined Use of Chemical and Bacterial Protein Expression Methods (<i>Angew. Chem. Int. Ed.</i> 50/2009). <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9378-9378.	13.8	2
79	Efficient and systematic synthesis of a small glycoconjugate library having human complex type oligosaccharides. <i>Carbohydrate Research</i> , 2009, 344, 762-770.	2.3	20
80	Efficient Substitution Reaction from Cysteine to the Serine Residue of Glycosylated Polypeptide: Repetitive Peptide Segment Ligation Strategy and the Synthesis of Glycosylated Tetracontapeptide Having Acid Labile Sialyl-TN Antigens. <i>Journal of Organic Chemistry</i> , 2009, 74, 2494-2501.	3.2	35
81	Uncovering a Latent Ligation Site for Glycopeptide Synthesis. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5402-5406.	13.8	65
82	2D Selective-TOCSY and DQFCOSY and HSQC TOCSY NMR experiments for assignment of a homogeneous asparagine-linked triantennary complex type undecasaccharide. <i>Carbohydrate Research</i> , 2008, 343, 1333-1345.	2.3	11
83	Chemical Synthesis of a Glycoprotein Having an Intact Human Complex-Type Sialyloligosaccharide under the Boc and Fmoc Synthetic Strategies. <i>Journal of the American Chemical Society</i> , 2008, 130, 501-510.	13.7	159
84	Efficient Synthesis of MUC4 Sialylglycopeptide through the New Sialylation Using 5-Acetamido-Neuraminamide Donors. <i>Journal of Organic Chemistry</i> , 2008, 73, 3460-3466.	3.2	30
85	The study of glycopeptide syntheses: exploring concise O-linked sialylglycopeptide synthesis and glycopeptide coupling reaction. <i>Trends in Glycoscience and Glycotechnology</i> , 2008, 20, 203-217.	0.1	5
86	An Approach for a Synthesis of Asparagine-Linked Sialylglycopeptides Having Intact and Homogeneous Complex-Type Undecadisialyloligosaccharides. <i>Chemistry - A European Journal</i> , 2007, 13, 613-625.	3.3	47
87	Synthesis of CMP-9 ³ -modified-sialic acids as donor substrate analogues for mammalian and bacterial sialyltransferases. <i>Carbohydrate Research</i> , 2007, 342, 1680-1688.	2.3	15
88	Convenient synthesis of a sialylglycopeptide-thioester having an intact and homogeneous complex-type disialyl-oligosaccharide. <i>Carbohydrate Research</i> , 2006, 341, 1333-1340.	2.3	79
89	Highly efficient synthesis of sialylglycopeptides overcoming unexpected aspartimide formation during activation of Fmoc-Asn(undecadisialyloligosaccharide)-OH. <i>Tetrahedron Letters</i> , 2006, 47, 1341-1346.	1.4	15
90	An unambiguous assignment method by 2D selective-TOCSY-HSQC and selective-TOCSY-DQFCOSY and structural analysis by selective-TOCSY-NOESY experiments of a biantennary undecasaccharide. <i>Carbohydrate Research</i> , 2005, 340, 469-479.	2.3	17

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91	Chemoenzymatic synthesis of diverse asparagine-linked $\hat{I}\pm$ -(2,3)-sialyloligosaccharides. Glycoconjugate Journal, 2004, 21, 243-250.	2.7	11
92	Prompt Chemoenzymatic Synthesis of Diverse Complex-Type Oligosaccharides and Its Application to the Solid-Phase Synthesis of a Glycopeptide with Asn-Linked Sialyl-undeca- and Asialo-nonasaccharides. Chemistry - A European Journal, 2004, 10, 971-985.	3.3	162
93	Convenient synthesis of a glycopeptide analogue having a complex type disialyl-undecasaccharide. Tetrahedron Letters, 2004, 45, 3287-3290.	1.4	27
94	Title is missing!. Angewandte Chemie, 2003, 115, 2641-2644.	2.0	16
95	Solid-Phase Synthesis of Sialylglycopeptides through Selective Esterification of the Sialic Acid Residues of an Asn-Linked Complex-Type Sialyloligosaccharide. Angewandte Chemie - International Edition, 2003, 42, 2537-2540.	13.8	56
96	Efficient Chemical Synthesis of CMP-Neu5Ac and CMP-(Neu5Ac.alpha.2.fwdarw.8Neu5Ac). Journal of Organic Chemistry, 1995, 60, 5732-5735.	3.2	48
97	Characterization of inhibitory activities and binding mode of synthetic 6 \hat{a} ϵ ² -modified methyl N-acetyl- \hat{I} ² -lactosaminide toward rat liver CMP-d-Neu5Ac: d-galactoside-(2 \hat{a} ' 6)- $\hat{I}\pm$ -d-sialyltransferase. Carbohydrate Research, 1993, 247, 179-193.	2.3	48
98	Design and Synthesis of Glycosylated Cholera Toxin B Subunit as a Tracer of Glycoprotein Trafficking in Organelles of Living Cells. Chemistry - A European Journal, 0, , .	3.3	2