

# Katsunori Tanaka

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/924705/publications.pdf>

Version: 2024-02-01

190  
papers

4,207  
citations

109321

35  
h-index

168389

53  
g-index

225  
all docs

225  
docs citations

225  
times ranked

3177  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inâ€¦Vivo Gold Complex Catalysis within Live Mice. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3579-3584.	13.8	129
2	Significant Acceleration of 6Î€-Azaelectrocyclization Resulting from a Remarkable Substituent Effect and Formal Synthesis of the Ocular Age Pigment A2-E by a New Method for Substituted Pyridine Synthesis. <i>Journal of Organic Chemistry</i> , 2001, 66, 3099-3110.	3.2	122
3	A Submicrogramâ€Scale Protocol for Biomoleculeâ€Based PET Imaging by Rapid 6Î€-Azaelectrocyclization: Visualization of Sialic Acid Dependent Circulatory Residence of Glycoproteins. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 102-105.	13.8	114
4	PET (positron emission tomography) imaging of biomolecules using metalâ€DOTA complexes: a new collaborative challenge by chemists, biologists, and physicians for future diagnostics and exploration of in vivo dynamics. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 815.	2.8	111
5	Biocompatibility and therapeutic potential of glycosylated albumin artificial metalloenzymes. <i>Nature Catalysis</i> , 2019, 2, 780-792.	34.4	110
6	Large-Scale Synthesis of Immunoactivating Natural Product, Pristane, by Continuous Microfluidic Dehydration as the Key Step. <i>Organic Letters</i> , 2007, 9, 299-302.	4.6	105
7	Highly Stereoselective Asymmetric 6Î€-Azaelectrocyclization Utilizing the Novel 7-Alkyl Substituted cis-1-Amino-2-indanols: A Formal Synthesis of 20-Epiuleine. <i>Journal of the American Chemical Society</i> , 2002, 124, 9660-9661.	13.7	101
8	Noninvasive Imaging of Dendrimerâ€Type Nâ€Glycan Clusters: In Vivo Dynamics Dependence on Oligosaccharide Structure. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8195-8200.	13.8	100
9	Development of Highly Stereoselective Asymmetric 6Î€-Azaelectrocyclization of Conformationally Flexible Linear 1-Azatrienes. From Determination of Multifunctional Chiral Amines, 7-Alkyl cis-1-Amino-2-indanols, to Application as a New Synthetic Strategy: A Formal Synthesis of 20-Epiuleine. <i>Journal of Organic Chemistry</i> , 2004, 69, 5906-5925.	3.2	93
10	Exploring a Unique Reactivity of 6Î€-Azaelectrocyclization to Enzyme Inhibition, Natural Products Synthesis, and Molecular Imaging: An Approach to Chemical Biology by Synthetic Chemists. <i>Synlett</i> , 2011, 2011, 2115-2139.	1.8	72
11	Emerging Technologies for Realâ€Time Intraoperative Margin Assessment in Future Breastâ€Conserving Surgery. <i>Advanced Science</i> , 2020, 7, 1901519.	11.2	65
12	Deuterium NMR Structure of Retinal in the Ground State of Rhodopsin. <i>Biochemistry</i> , 2004, 43, 12819-12828.	2.5	63
13	An artificial metalloenzyme biosensor can detect ethylene gas in fruits and Arabidopsis leaves. <i>Nature Communications</i> , 2019, 10, 5746.	12.8	62
14	The inhibitory mechanism of bovine pancreatic phospholipase A2 by aldehyde terpenoids. <i>Tetrahedron</i> , 1999, 55, 1657-1686.	1.9	60
15	Novel Synthesis of the Ocular Age Pigment A2-E: A New Method for Substituted Pyridine Synthesis via Azaelectrocyclization. <i>Organic Letters</i> , 2000, 2, 373-375.	4.6	60
16	Structural Analysis and Dynamics of Retinal Chromophore in Dark and Meta I States of Rhodopsin from 2H NMR of Aligned Membranes. <i>Journal of Molecular Biology</i> , 2007, 372, 50-66.	4.2	60
17	Highly Efficient Î±â€Sialylation by Virtue of Fixed Dipole Effects of N-Phthalyl Group: Application to Continuous Flow Synthesis of Î±(2â€3)- and Î±(2â€6)-Neu5Acâ€Gal Motifs by Microreactor. <i>Journal of Carbohydrate Chemistry</i> , 2007, 26, 369-394.	1.1	59
18	Acceleration of Cu(I)-mediated Huisgen 1,3-dipolar cycloaddition by histidine derivatives. <i>Tetrahedron Letters</i> , 2007, 48, 6475-6479.	1.4	59

#	ARTICLE	IF	CITATIONS
19	Development of a One-Pot Asymmetric Azaelectrocyclization Protocol: Synthesis of Chiral 2,4-Disubstituted 1,2,5,6-Tetrahydropyridines. <i>Organic Letters</i> , 2006, 8, 3809-3812.	4.6	56
20	Synthesis of 2,4,6-Trisubstituted Chiral Piperidines and (â~)-Dendroprimine by One-Pot Asymmetric Azaelectrocyclization Protocol. <i>Organic Letters</i> , 2006, 8, 3813-3816.	4.6	54
21	Three Challenges toward the Assignment of Absolute Configuration of Gymnocin-B. <i>Journal of the American Chemical Society</i> , 2005, 127, 9561-9570.	13.7	53
22	Visualizing Trimming Dependence of Biodistribution and Kinetics with Homo- and Heterogeneous N-Glycoclusters on Fluorescent Albumin. <i>Scientific Reports</i> , 2016, 6, 21797.	3.3	52
23	Determination of the Absolute Configuration of Flexible Molecules by ab Initio ORD Calculations: A Case Study with Cytoxazones and Isocytoxazones. <i>Journal of Organic Chemistry</i> , 2005, 70, 6557-6563.	3.2	50
24	Chemical Synthesis of a Complex-Type <i>N</i> -Glycan Containing a Core Fucose. <i>Journal of Organic Chemistry</i> , 2016, 81, 10600-10616.	3.2	49
25	Synthesis of a Sialic Acid Containing Complex-Type <i>N</i> -Glycan on a Solid Support. <i>Chemistry - an Asian Journal</i> , 2009, 4, 574-580.	3.3	47
26	Solid-State <sup>2</sup> H NMR Structure of Retinal in Metarhodopsin I. <i>Journal of the American Chemical Society</i> , 2006, 128, 11067-11071.	13.7	43
27	Practical Synthesis of a Man <sup>1</sup> 2(1-4)GlcNTroch Fragment via Microfluidic <sup>1</sup> 2-Mannosylation. <i>Journal of Carbohydrate Chemistry</i> , 2009, 28, 1-11.	1.1	43
28	Renaissance of Traditional Organic Reactions under Microfluidic Conditions: A New Paradigm for Natural Products Synthesis. <i>Organic Process Research and Development</i> , 2009, 13, 983-990.	2.7	43
29	Synthesis of a new phospholipase A <sub>2</sub> inhibitor of an aldehyde terpenoid and its possible inhibitory mechanism. <i>Tetrahedron Letters</i> , 1998, 39, 1185-1188.	1.4	42
30	Site-Selective and Nondestructive Protein Labeling through Azaelectrocyclization-Induced Cascade Reactions. <i>ChemBioChem</i> , 2008, 9, 2392-2397.	2.6	42
31	Determination of the absolute configurations of flexible molecules: Synthesis and theoretical simulation of electronic circular dichroism/optical rotation of some pyrrolo[2,3- <i>b</i> ]indoline alkaloids. A case study. <i>Chirality</i> , 2007, 19, 434-445.	2.6	40
32	Theoretical simulation of the electronic circular dichroism spectrum of calicheamicin. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 5072-5079.	3.0	39
33	Prodrug Activation by Gold Artificial Metalloenzyme-Catalyzed Synthesis of Phenanthridinium Derivatives via Hydroamination. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12446-12454.	13.8	39
34	Bioorthogonal release of anticancer drugs via gold-triggered 2-alkynylbenzamide cyclization. <i>Chemical Science</i> , 2020, 11, 10928-10933.	7.4	38
35	Cytotoxic Activity of Ursolic Acid Derivatives Obtained by Isolation and Oxidative Derivatization. <i>Molecules</i> , 2013, 18, 8929-8944.	3.8	37
36	Fluorescence Detected Exciton Coupled Circular Dichroism: Development of New Fluorescent Reporter Groups for Structural Studies. <i>Monatshefte für Chemie</i> , 2005, 136, 367-395.	1.8	36

#	ARTICLE	IF	CITATIONS
37	Reinvestigation of the C5-acetamide sialic acid donor for $\hat{\pm}$ -selective sialylation: practical procedure under microfluidic conditions. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 7243.	2.8	35
38	Synthetic prodrug design enables biocatalytic activation in mice to elicit tumor growth suppression. <i>Nature Communications</i> , 2022, 13, 39.	12.8	34
39	Oligosaccharide Synthesis by Affinity Separation Based on Molecular Recognition between Podand Ether and Ammonium Ion. <i>Synlett</i> , 2005, 2005, 2342-2346.	1.8	32
40	A Combined $\hat{\pm}$ -Azaelectrocyclization/Staudinger Approach to Protein and Cell Engineering: Noninvasive Tumor Targeting by $\hat{N}$ -Glycan-Engineered Lymphocytes. <i>Journal of Carbohydrate Chemistry</i> , 2010, 29, 118-132.	1.1	32
41	Glycan multivalency effects toward albumin enable N-glycan-dependent tumor targeting. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 2251-2254.	2.2	32
42	Sequential Double $\hat{\pm}$ -Clicks toward Structurally Well-Defined Heterogeneous $\hat{N}$ -Glycoclusters: The Importance of Cluster Heterogeneity on Pattern Recognition In Vivo. <i>Advanced Science</i> , 2017, 4, 1600394.	11.2	30
43	Absolute Stereochemistry of Allylic Alcohols, Amines, and Other Ene Moieties: A Microscale Cross Metathesis/Exciton Chirality Protocol. <i>Journal of the American Chemical Society</i> , 2003, 125, 10802-10803.	13.7	29
44	Synthesis of new chiral auxiliaries for $\hat{\pm}$ -azaelectrocyclization: 4- and 7-alkyl substituted cis-1-amino-2-indanols. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 185-188.	1.8	29
45	The Core Fucose on an IgG Antibody is an Endogenous Ligand of Dectin-1. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18697-18702.	13.8	29
46	Electrocyclization-Based Labeling Allows Efficient In Vivo Imaging of Cellular Trafficking. <i>ChemMedChem</i> , 2010, 5, 841-845.	3.2	27
47	Interaction of Platelet Endothelial Cell Adhesion Molecule (PECAM) with $\hat{\pm}$ 2,6-Sialylated Glycan Regulates Its Cell Surface Residency and Anti-apoptotic Role. <i>Journal of Biological Chemistry</i> , 2014, 289, 27604-27613.	3.4	27
48	First synthesis of ( $\hat{\pm}$ )-spongianolide A and determination of its absolute structure. <i>Tetrahedron Letters</i> , 1999, 40, 1731-1734.	1.4	26
49	Recent Advances in Positron Emission Tomography (PET) Imaging of Biomolecules: From Chemical Labeling to Cancer Diagnostics. <i>Mini-Reviews in Organic Chemistry</i> , 2008, 5, 153-162.	1.3	26
50	Chemically synthesized glycoconjugates on proteins: effects of multivalency and glycoform in vivo. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 7610-7621.	2.8	26
51	A viable strategy for screening the effects of glycan heterogeneity on target organ adhesion and biodistribution in live mice. <i>Chemical Communications</i> , 2018, 54, 8693-8696.	4.1	26
52	Cascade Reaction in Human Live Tissue Allows Clinically Applicable Diagnosis of Breast Cancer Morphology. <i>Advanced Science</i> , 2019, 6, 1801479.	11.2	26
53	Highly Efficient Sialylation towards $\hat{\pm}$ (2-3)- and $\hat{\pm}$ (2-6)-Neu5Ac-Gal Synthesis: Significant $\hat{\pm}$ -Fixed Dipole Effect <sup>TM</sup> of N-Phthalyl Group on $\hat{\pm}$ -Selectivity. <i>Synlett</i> , 2005, 2005, 2958-2962.	1.8	25
54	Stereocontrolled Synthesis of Substituted Chiral Piperidines via One-Pot Asymmetric $\hat{\pm}$ -Azaelectrocyclization: Asymmetric Syntheses of ( $\hat{\pm}$ )-Dendroprimine, (+)-7-Epidendroprimine, (+)-5-Epidendroprimine, and (+)-5,7-Epidendroprimine. <i>Journal of Organic Chemistry</i> , 2012, 77, 1812-1832.	3.2	25

#	ARTICLE	IF	CITATIONS
55	Uncatalyzed Click Reaction between Phenyl Azides and Acrolein: 4-Formyl-1,2,3-Triazolines as “Clicked” Markers for Visualizations of Extracellular Acrolein Released from Oxidatively Stressed Cells. ACS Sensors, 2016, 1, 623-632.	7.8	25
56	In Vivo Gold Complex Catalysis within Live Mice. Angewandte Chemie, 2017, 129, 3633-3638.	2.0	25
57	Cinchonine induces apoptosis of HeLa and A549 cells through targeting TRAF6. Journal of Experimental and Clinical Cancer Research, 2017, 36, 35.	8.6	25
58	A One-Pot Three-Component Double-Click Method for Synthesis of [67Cu]-Labeled Biomolecular Radiotherapeutics. Scientific Reports, 2017, 7, 1912.	3.3	25
59	2-Benzoylpyridine Ligand Complexation with Gold Critical for Propargyl Ester-Based Protein Labeling. Chemistry - A European Journal, 2018, 24, 10595-10600.	3.3	25
60	<sup>211</sup> At-labeled immunoconjugate via a one-pot three-component double click strategy: practical access to $\beta^+$ -emission cancer radiotherapeutics. Chemical Science, 2019, 10, 1936-1944.	7.4	25
61	Efficient aldol condensation in aqueous biphasic system under microfluidic conditions. Tetrahedron Letters, 2008, 49, 2010-2012.	1.4	24
62	Development of bis-unsaturated ester aldehydes as amino-glue probes: sequential double azaelectrocyclization as a promising strategy for bioconjugation. Organic and Biomolecular Chemistry, 2013, 11, 7326.	2.8	24
63	Practical and Efficient Method for $\beta$ -Sialylation with an Azide Sialyl Donor Using a Microreactor. Journal of Carbohydrate Chemistry, 2014, 33, 55-67.	1.1	23
64	Library-Directed Solution- and Solid-Phase Synthesis of 2,4-Disubstituted Pyridines: One-Pot Approach through $\beta$ -Azaelectrocyclization. Chemistry - an Asian Journal, 2009, 4, 1573-1577.	3.3	22
65	Direct Guanylation of Amino Groups by Cyanamide in Water: Catalytic Generation and Activation of Unsubstituted Carbodiimide by Scandium(III) Triflate. Synlett, 2014, 25, 1302-1306.	1.8	22
66	Artificial Glycoproteins as a Scaffold for Targeted Drug Therapy. Small, 2020, 16, e1906890.	10.0	22
67	Development of a Universal Ellipsoidal Mirror Device for Fluorescence Detected Circular Dichroism: Elimination of Polarization Artifacts. Applied Spectroscopy, 2005, 59, 121-125.	2.2	21
68	Ursolic acid derivatives from Bangladeshi medicinal plant, Saurauja roxburghii: Isolation and cytotoxic activity against A431 and C6 glioma cell lines. Phytochemistry Letters, 2011, 4, 287-291.	1.2	21
69	Cell surface biotinylation by azaelectrocyclization: Easy-handling and versatile approach for living cell labeling. Bioorganic and Medicinal Chemistry, 2012, 20, 1865-1868.	3.0	21
70	Acid-mediated reactions under microfluidic conditions: A new strategy for practical synthesis of biofunctional natural products. Beilstein Journal of Organic Chemistry, 2009, 5, 40.	2.2	20
71	New strategy in synthetic biology: from enzyme inhibition and natural products synthesis to PET imaging by $\beta$ -azaelectrocyclization. Chemical Record, 2010, 10, 119-139.	5.8	20
72	Bio-imaging and cancer targeting with glycoproteins and N-glycans. Current Opinion in Chemical Biology, 2012, 16, 614-621.	6.1	20

#	ARTICLE	IF	CITATIONS
73	Exclusive formation of imino[4 + 4]cycloaddition products with biologically relevant amines: plausible candidates for acrolein biomarkers and biofunctional modulators. MedChemComm, 2015, 6, 431-436.	3.4	20
74	Unexplored Reactivity of N-Alkyl Unsaturated Imines: A Simple Procedure for Producing Optically Active 1,3-Diamines via a Stereocontrolled Formal [4+2] and [4+2+2] Iminocycloaddition. Bulletin of the Chemical Society of Japan, 2016, 89, 337-345.	3.2	20
75	Chemical N-Glycosylation by Asparagine under Integrated Microfluidic/Batch Conditions. Synlett, 2009, 2009, 1571-1574.	2.8	19
76	Efficient synthesis of 2,6,9-triazabicyclo[3.3.1]nonanes through amine-mediated formal [4+4] reaction of unsaturated imines. Tetrahedron Letters, 2012, 53, 5899-5902.	1.8	19
77	Polyamine modification by acrolein exclusively produces 1,5-diazacyclooctanes: a previously unrecognized mechanism for acrolein-mediated oxidative stress. Organic and Biomolecular Chemistry, 2014, 12, 5151-5157.	1.4	19
78	Efficient Synthesis of the Disialylated Tetrasaccharide Motif in N-Glycans through an Amide Protection Strategy. Chemistry - an Asian Journal, 2016, 11, 1436-1440.	2.8	19
79	Target-selective fluorescent switch-on protein labeling by 6-azaelectrocyclization. Organic and Biomolecular Chemistry, 2011, 9, 5346.	3.3	19
80	SYNTHESIS OF 3,7,9- AND 2,6,9-TRIAZABICYCLO[3.3.1]NONANE DERIVATIVES. Heterocycles, 2013, 87, 2001.	2.8	18
81	Facile Preparation of 1,5-Diazacyclooctanes from Unsaturated Imines: Effects of the Hydroxyl Groups on [4+4] Dimerization. Synlett, 2014, 25, 1026-1030.	0.7	18
82	Propargyl-Assisted Selective Amidation Applied in C-terminal Glycine Peptide Conjugation. Chemistry - A European Journal, 2016, 22, 18865-18872.	1.8	18
83	Highly reactive RIKEN click-probe for glycoconjugation on lysines. Tetrahedron Letters, 2017, 58, 1929-1933.	3.3	17
84	Disrupting tumor onset and growth via selective cell tagging (SeCT) therapy. Science Advances, 2021, 7, .	1.4	17
85	1,5-Diazacyclooctanes, as Exclusive Oxidative Polyamine Metabolites, Inhibit Amyloid Fibrillization. Advanced Science, 2016, 3, 1600082.	10.3	17
86	Convergent Synthesis of a Bisecting N-Acetylglucosamine (GlcNAc)-Containing N-Glycan. Chemistry - an Asian Journal, 2018, 13, 1544-1551.	11.2	16
87	In vivo organic synthesis by metal catalysts. Bioorganic and Medicinal Chemistry, 2021, 46, 116353.	3.3	16
88	The Inhibitory Mechanism of Phospholipase A2 by Aldehyde Terpenoids.. Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry, 1999, 57, 876-887.	3.0	16
89	2,6,9-Triazabicyclo[3.3.1]nonanes as overlooked amino-modification products by acrolein. Organic and Biomolecular Chemistry, 2013, 11, 7208.	0.1	16
90		2.8	15

#	ARTICLE	IF	CITATIONS
91	Imino [4+4] cycloaddition products as exclusive and biologically relevant acrolein-amine conjugates are intermediates of 3-formyl-3,4-dehydropiperidine (FDP), an acrolein biomarker. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 6380-6386.	3.0	15
92	Auxiliary-directed oxidation of ursolic acid by $\text{Ru}^{\text{TM}}$ -porphyrins: chemical modulation of cytotoxicity against tumor cell lines. <i>Tetrahedron Letters</i> , 2012, 53, 1756-1759.	1.4	14
93	Whole-body imaging of tumor cells by azaelectrocyclization: Visualization of metastasis dependence on glycan structure. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 1074-1077.	3.0	14
94	Microfluidic Mixing of Polyamine with Acrolein Enables the Detection of the [4+4] Polymerization of Intermediary Unsaturated Imines: The Properties of a Cytotoxic 1,5-Diazacyclooctane Hydrogel. <i>Synlett</i> , 2014, 25, 2442-2446.	1.8	14
95	A Strategy for Tumor Targeting by Higher-Order Glycan Pattern Recognition: Synthesis and In Vitro and In Vivo Properties of Glycoalbumins Conjugated with Four Different $\text{N}$ -Glycan Molecules. <i>Small</i> , 2020, 16, e2004831.	10.0	14
96	Exploring and Adapting the Molecular Selectivity of Artificial Metalloenzymes. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 382-396.	3.2	14
97	Prodrug Activation by Gold Artificial Metalloenzyme-Catalyzed Synthesis of Phenanthridinium Derivatives via Hydroamination. <i>Angewandte Chemie</i> , 2021, 133, 12554-12562.	2.0	14
98	Highly $\beta$ -Selective Mannosylation towards $\text{Man}\alpha 1\text{-4GlcNAc}$ Synthesis: $\text{TMSB}(\text{C}_6\text{F}_5)_4$ as a Lewis Acid/Cation Trap Catalyst. <i>Synlett</i> , 2005, 2005, 2325-2328.	1.8	13
99	Synthesis of CD3-Labeled 11- $\text{cis}$ -Retinals and Application to Solid-State Deuterium NMR Spectroscopy of Rhodopsin. <i>Bulletin of the Chemical Society of Japan</i> , 2007, 80, 2177-2184.	3.2	13
100	One-Pot Evolution of Ageladine...A through a Bio-Inspired Cascade towards Selective Modulators of Neuronal Differentiation. <i>Chemistry - A European Journal</i> , 2016, 22, 14707-14716.	3.3	13
101	Branched Sialylated $\text{N}$ -glycans Are Accumulated in Brain Synaptosomes and Interact with Siglec-H. <i>Cell Structure and Function</i> , 2018, 43, 141-152.	1.1	13
102	Tetramethylrhodamine is an essential scaffold of azide probe in detecting cellular acrolein. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 2228-2234.	3.0	13
103	Targeted 1,3-dipolar cycloaddition with acrolein for cancer prodrug activation. <i>Chemical Science</i> , 2021, 12, 5438-5449.	7.4	13
104	Identification of difructose dianhydride I synthase/hydrolase from an oral bacterium establishes a novel glycoside hydrolase family. <i>Journal of Biological Chemistry</i> , 2021, 297, 101324.	3.4	13
105	Azaelectrocyclization on cell surface: convenient and general approach to chemical biology research. <i>Tetrahedron</i> , 2015, 71, 4518-4521.	1.9	12
106	Reactivity of anti-HNK-1 antibodies to branched O- mannose glycans associated with demyelination. <i>Biochemical and Biophysical Research Communications</i> , 2017, 487, 450-456.	2.1	12
107	The Journey to In Vivo Synthetic Chemistry: From Azaelectrocyclization to Artificial Metalloenzymes. <i>Bulletin of the Chemical Society of Japan</i> , 2020, 93, 1275-1286.	3.2	12
108	Unlocking the therapeutic potential of artificial metalloenzymes. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2020, 96, 79-94.	3.8	12



#	ARTICLE	IF	CITATIONS
109	Cancer cell targeting driven by selective polyamine reactivity with glycine propargyl esters. <i>Chemical Communications</i> , 2017, 53, 8403-8406.	4.1	11
110	Disease-associated acrolein: A possible diagnostic and therapeutic substrate for in vivo synthetic chemistry. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115831.	3.0	11
111	Synthesis of Bacterial Glycoconjugates and Their Bio-functional Studies in Innate Immunity. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2012, 70, 113-130.	0.1	11
112	Development of new Wittig reagent, silylfuranmethyld, and its reactivity. <i>Tetrahedron</i> , 2003, 59, 4945-4952.	1.9	10
113	Preparation of ginkgolide and F-seco-ginkgolide lactols: the unique reactivity of 1±-hydroxy lactones toward NaBH <sub>4</sub> . <i>Tetrahedron Letters</i> , 2005, 46, 531-534.	1.4	10
114	Discovery and application of 6I€-azaelectrocyclization to natural product synthesis and synthetic biology. <i>Science China Chemistry</i> , 2012, 55, 19-30.	8.2	10
115	A cascading reaction sequence involving ligand-directed azaelectrocyclization and autooxidation-induced fluorescence recovery enables visualization of target proteins on the surfaces of live cells. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 1412-1418.	2.8	10
116	<i>In vivo</i> metal-catalyzed SeCT therapy by a proapoptotic peptide. <i>Chemical Science</i> , 2021, 12, 12266-12273.	7.4	10
117	A New Paradigm for Practical Synthesis of Biofunctional Natural Products: Renaissance of Traditional Organic Reactions under Microfluidic Conditions. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2010, 68, 124-135.	0.1	10
118	In Situ Ligation of High- and Low-Affinity Ligands to Cell Surface Receptors Enables Highly Selective Recognition. <i>Advanced Science</i> , 2017, 4, 1700147.	11.2	9
119	Concise and Reliable Syntheses of Glycodendrimers via Self-Activating Click Chemistry: A Robust Strategy for Mimicking Multivalent Glycan-Pathogen Interactions. <i>Journal of Organic Chemistry</i> , 2020, 85, 16014-16023.	3.2	9
120	Efficient Procedure for Reductive Opening of Sugar 4,6-O-Benzylidene Acetals in a Microfluidic System. <i>Synlett</i> , 2007, 2007, 0164-0166.	1.8	8
121	Probe design and synthesis of Gal $\beta$ (1 $\rightarrow$ 3)[NeuAc $\alpha$ (2 $\rightarrow$ 6)]GlcNAc $\beta$ (1 $\rightarrow$ 2)Man motif of N-glycan. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 3760-3766.	3.0	8
122	In vivo kinetics and biodistribution analysis of neoglycoproteins: effects of chemically introduced glycans on proteins. <i>Glycoconjugate Journal</i> , 2014, 31, 273-279.	2.7	8
123	A Reduction-Based Sensor for Acrolein Conjugates with the Inexpensive Nitrobenzene as an Alternative to Monoclonal Antibody. <i>Scientific Reports</i> , 2016, 6, 35872.	3.3	8
124	<i>In vitro</i> and <i>in vivo</i> cancer cell apoptosis triggered by competitive binding of Cinchona alkaloids to the RING domain of TRAF6. <i>Bioscience, Biotechnology and Biochemistry</i> , 2019, 83, 1011-1026.	1.3	8
125	Targeting <i>Bacillus cereus</i> cells: increasing efficiency of antimicrobials by the bornylpossessing 2(5D)-furanone derivative. <i>New Microbiologica</i> , 2019, 42, 29-36.	0.1	8
126	Template-Assisted and Self-Activating Clicked Peptide as a Synthetic Mimic of the SH2 Domain. <i>ACS Chemical Biology</i> , 2012, 7, 637-645.	3.4	7



#	ARTICLE	IF	CITATIONS
127	Bis[N,Nâ€²-(2-indanoly)]-1,5-diazacyclooctane as Unique Metal Ligand: Self-Assembly of Palladium Nanoparticles and Catalytic Reactivity on Câ€“C Bond Formation. <i>Synthesis</i> , 2018, 50, 1097-1104.	2.3	7
128	Expanding the Applicability of the Metal Labeling of Biomolecules by the RIKEN Click Reaction: A Case Study with Galliumâ€™ Positron Emission Tomography. <i>ChemBioChem</i> , 2018, 19, 2055-2060.	2.6	7
129	Efficient route to RIKEN click probes for glycoconjugation. <i>Journal of Carbohydrate Chemistry</i> , 2019, 38, 127-138.	1.1	7
130	Chemical Glycan Conjugation Controls the Biodistribution and Kinetics of Proteins in Live Animals. <i>Mini-Reviews in Medicinal Chemistry</i> , 2015, 14, 1072-1077.	2.4	7
131	Unique Reactivity of Î±-Alkoxy Ginkgolide Lactones to Nucleophilic Reagents: Preparation of New Lactol Derivatives. <i>Bulletin of the Chemical Society of Japan</i> , 2005, 78, 1843-1850.	3.2	6
132	Self and Nonself Recognition with Bacterial and Animal Glycans, Surveys by Synthetic Chemistry. <i>Methods in Enzymology</i> , 2010, 478, 323-342.	1.0	6
133	Cell surface and in vivo interaction of dendrimeric N-glycoclusters. <i>Glycoconjugate Journal</i> , 2015, 32, 497-503.	2.7	6
134	Exploring the glycan interaction in vivo: Future prospects of neo-glycoproteins for diagnostics. <i>Glycobiology</i> , 2016, 26, 804-812.	2.5	6
135	Chemical Sensing of Acrolein-Amine Conjugates for Food Quality Control: A Case Study of Milk Products. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 1018-1023.	3.2	6
136	A conformationally fixed analog of the peptide mimic Grb2â€™SH2 domain: synthesis and evaluation against the A431 cancer cell. <i>Molecular BioSystems</i> , 2013, 9, 1019.	2.9	5
137	Cycloaddition Reactions of N-Alkyl-Î±,Î²-unsaturated Imines: Facile Preparation of Azaheterocycles for Synthesis and Biological Applications. <i>Heterocycles</i> , 2018, 97, 668.	0.7	5
138	Development of Rapid 6.Pl-Azaelectrocyclization Learning from the Enzyme Inhibitory Mechanism. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2005, 63, 696-708.	0.1	5
139	The Second-Generation Click-to-Sense Probe for Intraoperative Diagnosis of Breast Cancer Tissues Based on Acrolein Targeting. <i>Bulletin of the Chemical Society of Japan</i> , 2022, 95, 421-426.	3.2	5
140	In vivo imaging of advanced glycation end products (AGEs) of albumin: first observations of significantly reduced clearance and liver deposition properties in mice. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 5755-5760.	2.8	4
141	A new synthetic route to 5,6,11,12-tetraarylethynyltetracenes. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 9143-9146.	2.8	4
142	Facile Access to Optically Active 2,6â€™Dialkylâ€¹,5â€™Diazacyclooctanes. <i>Chemistry - an Asian Journal</i> , 2019, 14, 4048-4054.	3.3	4
143	Exploration of the Fluoride Reactivity of Aryltrifluoroborate on Selective Cleavage of Diphenylmethylsilyl Groups. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 4616-4620.	2.4	4
144	Cancer discrimination by on-cell N-glycan ligation. <i>Communications Chemistry</i> , 2020, 3, .	4.5	4

#	ARTICLE	IF	CITATIONS
145	Enantioselective synthesis of cyclic and linear diamines by imine cycloadditions. <i>Chirality</i> , 2020, 32, 1160-1168.	2.6	4
146	Epoc group: transformable protecting group with gold(iii)-catalyzed fluorene formation. <i>Chemical Science</i> , 2021, 12, 10703-10709.	7.4	4
147	Biofunctional chemistry and reactivity of biogenic acrolein for cancer diagnosis and therapy. <i>Chemical Communications</i> , 2021, 57, 9798-9806.	4.1	4
148	Application of Acrolein Imines to Organic Synthesis, Biofunctional Studies, and Clinical Practice. <i>Chemical Record</i> , 2021, 21, 646-662.	5.8	4
149	Biomolecular labeling based on lysine-clickable 6 $\pi$ -azaelectrocyclization toward innovative cancer theranostics. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 42, 116238.	3.0	4
150	Unrecognized Reactivity of N-Alkyl Unsaturated Imines: Synthetic Application and Biological Functions. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2016, 74, 700-709.	0.1	4
151	Combinatorial Methods in Oligosaccharide Synthesis. , 2008, , 1205-1240.		3
152	Polymer-Supported and Tag-Assisted Methods in Oligosaccharide Synthesis. , 2008, , 1241-1277.		3
153	Progress in the Development of Reaction-Based Sensors for Detection of Acrolein in Biological Samples. <i>BioNanoScience</i> , 2016, 6, 473-479.	3.5	3
154	Effect of spermine-derived AGEs on oxidative stress and polyamine metabolism. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 6720-6724.	2.8	3
155	Inhibition of amyloid formation of amyloid $\beta$ (1-42), amylin and insulin by 1,5-diazacyclooctanes, a spermine-acrolein conjugate. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 46, 116391.	3.0	3
156	Unrecognized Cycloaddition Reactions of N-Alkyl- $\beta$ , $\gamma$ -Unsaturated Imines Occurring in Biosystems and Their Biological Roles. <i>BioNanoScience</i> , 2016, 6, 364-367.	3.5	2
157	Simple Gd <sup>3+</sup> -Neu5NAc complexation results in NMR chemical shift asymmetries of structurally equivalent complex-type N-glycan branches. <i>Analyst</i> , The, 2017, 142, 2897-2900.	3.5	2
158	The Core Fucose on an IgG Antibody is an Endogenous Ligand of Dectin-1. <i>Angewandte Chemie</i> , 2019, 131, 18870-18875.	2.0	2
159	Importance of local glycan heterogeneity for in vivo cancer targeting. <i>Tetrahedron Letters</i> , 2021, 72, 153089.	1.4	2
160	Exploring A Unique Reactivity of 6 $\pi$ -Azaelectrocyclization: Discovery and Application to Natural Products Synthesis and Synthetic Chemical Biology. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2011, 69, 1389-1401.	0.1	2
161	Development of Azaelectrocyclization-Based Labeling and Application to Noninvasive Imaging and Targeting Using $\beta$ -Glycan Derivatives”In Pursuit of $\beta$ -Glycan Functions on Proteins, Dendrimers, and Living Cells”. <i>Trends in Glycoscience and Glycotechnology</i> , 2012, 24, 47-64.	0.1	2
162	Efficient Synthesis of Marine Alkaloid Ageladine A and its Structural Modification for Exploring New Biological Activity. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2020, 78, 51-59.	0.1	2

#	ARTICLE	IF	CITATIONS
163	Homo- and Heterogeneous Glycoconjugates on the Basis of N-Glycans and Human Serum Albumin: Synthesis and Biological Evaluation. <i>Molecules</i> , 2022, 27, 1285.	3.8	2
164	Influence of Glycosylation Pattern on Protein Biodistribution and Kinetics In Vivo Within Mice. , 2019, , 127-161.		1
165	Heterogeneity Effects of Glycan Clusters on Microarrays and Dendrimers. <i>Trends in Glycoscience and Glycotechnology</i> , 2011, 23, 155-157.	0.1	1
166	Next-generation Glycocluster for Achieving Pattern Recognition in Living System. Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry, 2019, 77, 163-172.	0.1	1
167	Comparison of "click-to-sense" assay with frozen section analysis using simulated surgical margins in breast cancer patients. <i>European Journal of Surgical Oncology</i> , 2022, 48, 1520-1526.	1.0	1
168	Development of New Wittig Reagent, Silylfuranmethyld, and Its Reactivity.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
169	Development of Highly Stereoselective Asymmetric 6 $\pi$ -Azoelectrocyclization of Conformationally Flexible Linear 1-Azatrienenes. From Determination of Multifunctional Chiral Amines, 7-Alkyl cis-1-Amino-2-indanols, to Application as a New Synthetic Strategy: Formal Synthesis of 20-Epiuleine.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
170	Development of Rapid 6 $\pi$ -Azoelectrocyclization Learning from the Enzyme Inhibitory Mechanism. <i>ChemInform</i> , 2005, 36, no.	0.0	0
171	Chemical Approach to a Whole Body Imaging of Sialo-N-Linked Glycans. <i>Topics in Current Chemistry</i> , 2014, 367, 201-230.	4.0	0
172	P1-068: How and where is app modified with o-glycans?. , 2015, 11, P364-P364.		0
173	Oxidative Stress: 1,5-Diazacyclooctanes, as Exclusive Oxidative Polyamine Metabolites, Inhibit Amyloid- $\beta$ (1-40) Fibrillization ( <i>Adv. Sci.</i> 10/2016). <i>Advanced Science</i> , 2016, 3, .	11.2	0
174	Bio-inspired Domino Reduction of Nitroarenes by Acrolein-Amine Conjugates in One-pot Operation. <i>Chemistry Letters</i> , 2017, 46, 811-813.	1.3	0
175	Reactive Gold Complex Catalysis within Live Mice ( <i>Angew. Chem.</i> 13/2017). <i>Angewandte Chemie</i> , 2017, 129, 3778-3778.	2.0	0
176	Cell Imaging: In Situ Ligation of High- and Low-Affinity Ligands to Cell Surface Receptors Enables Highly Selective Recognition ( <i>Adv. Sci.</i> 11/2017). <i>Advanced Science</i> , 2017, 4, .	11.2	0
177	Frontispiece: 2-Benzoylpyridine Ligand Complexation with Gold Critical for Propargyl Ester-Based Protein Labeling. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	0
178	Tumor Targeting: A Strategy for Tumor Targeting by Higher-Order Glycan Pattern Recognition: Synthesis and In Vitro and In Vivo Properties of Glycoalbumins Conjugated with Four Different N-Glycan Molecules ( <i>Small</i> 46/2020). <i>Small</i> , 2020, 16, 2070253.	10.0	0
179	In Situ Synthesis of Glycoconjugates on the Cell Surface: Selective Cell Imaging Using Low-Affinity Glycan Ligands. , 2021, , 55-75.		0
180	Reactive Gold Catalyzed Synthesis of Phenanthridinium Derivatives via Hydroamination ( <i>Angew. Chem.</i> 22/2021). <i>Angewandte Chemie</i> , 2021, 133, 12716-12716.	2.0	0

#	ARTICLE	IF	CITATIONS
181	Toward Development of Practical Cancer Diagnostic and Therapeutic Molecule-Development of Efficient Click Reaction-Based Labeling Method and Radiotheranostics-. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2021, 79, 673-683.	0.1	0
182	Asymmetric Synthesis of <sup>14</sup> C-labeled L-Propargylglycine. Radioisotopes, 2010, 59, 721-726.	0.2	0
183	In Vivo Imaging of Chemically Engineered Proteins and Cells by Oligosaccharides. Trends in Glycoscience and Glycotechnology, 2010, 22, 48-50.	0.1	0
184	Metal-Catalized Organic Reaction in Live Cells: Future Prospect of Time- and Space-Selective Glycan Conjugation In Live Systems. Trends in Glycoscience and Glycotechnology, 2014, 26, 73-75.	0.1	0
185	PET Imaging of Glycoconjugates. , 2015, , 485-490.		0
186	Structural Biology of Glycans. , 2019, , 35-63.		0
187	<i>In Vivo</i> Glycan Pattern Recognition Towards Drug Delivery System and Therapeutic <i>In Vivo</i> Synthetic Chemistry. Trends in Glycoscience and Glycotechnology, 2019, 31, SJ61-SJ62.	0.1	0
188	&lt;i>In Vivo&/i> Glycan Pattern Recognition Towards Drug Delivery System and Therapeutic &lt;i>In Vivo&/i> Synthetic Chemistry. Trends in Glycoscience and Glycotechnology, 2019, 31, SE61-SE62.	0.1	0
189	Methods for Acrolein Detection: Recent Advances and Applications. Journal of the Indonesian Chemical Society, 2020, 3, 73.	0.3	0
190	Efficient Synthesis of Oligosaccharides and Synthesis of Pathogen-Associated Molecular Patterns for Their Biofunctional Studies. , 2008, , 200-205.		0