

Koichi Fukase

List of Publications by Year in descending order

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294
papers

15,347
citations

31974

53
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112
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315
all docs

315
docs citations

315
times ranked

14634
citing authors

#	ARTICLE	IF	CITATIONS
1	Host Recognition of Bacterial Muramyl Dipeptide Mediated through NOD2. <i>Journal of Biological Chemistry</i> , 2003, 278, 5509-5512.	3.4	1,473
2	An essential role for NOD1 in host recognition of bacterial peptidoglycan containing diaminopimelic acid. <i>Nature Immunology</i> , 2003, 4, 702-707.	14.5	1,139
3	Toll-like receptor 4 imparts ligand-specific recognition of bacterial lipopolysaccharide. <i>Journal of Clinical Investigation</i> , 2000, 105, 497-504.	8.2	678
4	A critical role of RICK/RIP2 polyubiquitination in Nod-induced NF- κ B activation. <i>EMBO Journal</i> , 2008, 27, 373-383.	7.8	469
5	Crystal Structures of Human MD-2 and Its Complex with Antiendotoxic Lipid IVa. <i>Science</i> , 2007, 316, 1632-1634.	12.6	436
6	Monomeric and Polymeric Gram-Negative Peptidoglycan but Not Purified LPS Stimulate the Drosophila IMD Pathway. <i>Immunity</i> , 2004, 20, 637-649.	14.3	391
7	Virulence factors of <i>Yersinia pestis</i> are overcome by a strong lipopolysaccharide response. <i>Nature Immunology</i> , 2006, 7, 1066-1073.	14.5	364
8	Lipopolysaccharide Interaction with Cell Surface Toll-like Receptor 4-MD-2. <i>Journal of Experimental Medicine</i> , 2003, 198, 1035-1042.	8.5	353
9	Autophagic control of listeria through intracellular innate immune recognition in drosophila. <i>Nature Immunology</i> , 2008, 9, 908-916.	14.5	332
10	Structural basis of species-specific endotoxin sensing by innate immune receptor TLR4/MD-2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7421-7426.	7.1	290
11	Various human epithelial cells express functional Toll-like receptors, NOD1 and NOD2 to produce anti-microbial peptides, but not proinflammatory cytokines. <i>Molecular Immunology</i> , 2007, 44, 3100-3111.	2.2	282
12	Human MD-2 confers on mouse Toll-like receptor 4 species-specific lipopolysaccharide recognition. <i>International Immunology</i> , 2001, 13, 1595-1599.	4.0	233
13	Lipid A antagonist, lipid IVa, is distinct from lipid A in interaction with Toll-like receptor 4 (TLR4)-MD-2 and ligand-induced TLR4 oligomerization. <i>International Immunology</i> , 2004, 16, 961-969.	4.0	210
14	Human Peptidoglycan Recognition Protein-L Is an N-Acetylmuramoyl-L-alanine Amidase. <i>Journal of Biological Chemistry</i> , 2003, 278, 49044-49052.	3.4	206
15	Aggregates Are the Biologically Active Units of Endotoxin. <i>Journal of Biological Chemistry</i> , 2004, 279, 26307-26313.	3.4	199
16	Nod1 acts as an intracellular receptor to stimulate chemokine production and neutrophil recruitment in vivo. <i>Journal of Experimental Medicine</i> , 2006, 203, 203-213.	8.5	199
17	The NLRP6 Inflammasome Recognizes Lipoteichoic Acid and Regulates Gram-Positive Pathogen Infection. <i>Cell</i> , 2018, 175, 1651-1664.e14.	28.9	195
18	Molecular basis for bacterial peptidoglycan recognition by LysM domains. <i>Nature Communications</i> , 2014, 5, 4269.	12.8	167

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19	Regulatory Roles for MD-2 and TLR4 in Ligand-Induced Receptor Clustering. <i>Journal of Immunology</i> , 2006, 176, 6211-6218.	0.8	166
20	Nod1/RICK and TLR Signaling Regulate Chemokine and Antimicrobial Innate Immune Responses in Mesothelial Cells. <i>Journal of Immunology</i> , 2007, 179, 514-521.	0.8	165
21	Intrinsic conformation of lipid A is responsible for agonistic and antagonistic activity. <i>FEBS Journal</i> , 2000, 267, 3032-3039.	0.2	164
22	Differential Release and Distribution of Nod1 and Nod2 Immunostimulatory Molecules among Bacterial Species and Environments. <i>Journal of Biological Chemistry</i> , 2006, 281, 29054-29063.	3.4	146
23	Combinational clustering of receptors following stimulation by bacterial products determines lipopolysaccharide responses. <i>Biochemical Journal</i> , 2004, 381, 527-536.	3.7	131
24	A Dominant Role of Toll-Like Receptor 4 in the Signaling of Apoptosis in Bacteria-Faced Macrophages. <i>Journal of Immunology</i> , 2003, 171, 4294-4303.	0.8	124
25	A Submicrogram Scale Protocol for Biomolecule-Based PET Imaging by Rapid Microwave Electrocyclization: Visualization of Sialic Acid Dependent Circulatory Residence of Glycoproteins. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 102-105.	13.8	114
26	Effects of dehydroalanine on peptide conformations. <i>Journal of the American Chemical Society</i> , 1992, 114, 5634-5642.	13.7	112
27	PET (positron emission tomography) imaging of biomolecules using metal-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
28	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
29	Differential Modulation of Nods Signaling Pathways by Fatty Acids in Human Colonic Epithelial HCT116 Cells. <i>Journal of Biological Chemistry</i> , 2007, 282, 11618-11628.	3.4	104
30	First Total Synthesis of the Re-Type Lipopolysaccharide. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1475-1480.	13.8	103
31	Noninvasive Imaging of Dendrimer-Type N-Glycan Clusters: In Vivo Dynamics Dependence on Oligosaccharide Structure. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8195-8200.	13.8	100
32	Dendritic Cell Maturation Induced by Muramyl Dipeptide (MDP) Derivatives: Monoacylated MDP Confers TLR2/TLR4 Activation. <i>Journal of Immunology</i> , 2005, 174, 7096-7103.	0.8	96
33	Nod1 Ligands Induce Site-Specific Vascular Inflammation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, 1093-1099.	2.4	82
34	Divergent synthesis and biological activities of lipid A analogues of shorter acyl chains. <i>Tetrahedron</i> , 1998, 54, 4033-4050.	1.9	80
35	Differential Activation of Human TLR4 by <i>Escherichia coli</i> and <i>Shigella flexneri</i> 2a Lipopolysaccharide: Combined Effects of Lipid A Acylation State and TLR4 Polymorphisms on Signaling. <i>Journal of Immunology</i> , 2008, 180, 1139-1147.	0.8	80
36	Regioselective Reductive Opening of 4,6-O-Benzylidene Acetals of Glucose or Glucosamine Derivatives by BH ₃ ·Me ₂ NH - BF ₃ ·OEt ₂ . <i>Synlett</i> , 1996, 1996, 1179-1180.	1.8	76

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37	<i>Meso</i>-Diaminopimelic Acid and <i>Meso</i>-Lanthionine, Amino Acids Specific to Bacterial Peptidoglycans, Activate Human Epithelial Cells through NOD1. Journal of Immunology, 2006, 177, 1796-1804.	0.8	76
38	A stereoselective glycosidation using thioglycosides, activation by combination of N-bromosuccinimide and strong acid salts. Tetrahedron, 1995, 51, 4923-4932.	1.9	73
39	Synthesis of peptidoglycan fragments and evaluation of their biological activity. Organic and Biomolecular Chemistry, 2006, 4, 232-242.	2.8	73
40	Exploring a Unique Reactivity of 6Î€-Azaelectrocyclization to Enzyme Inhibition, Natural Products Synthesis, and Molecular Imaging: An Approach to Chemical Biology by Synthetic Chemists. Synlett, 2011, 2011, 2115-2139.	1.8	72
41	Chemical Synthesis of <i>Helicobacter pylori</i> Lipopolysaccharide Partial Structures and their Selective Proinflammatory Responses. Chemistry - A European Journal, 2011, 17, 14464-14474.	3.3	71
42	A novel method for stereoselective glycosidation with thioglycosides: Promotion by hypervalent iodine reagents prepared from PhIO and various acids.. Tetrahedron, 1996, 52, 3897-3904.	1.9	66
43	Total synthesis of peptide antibiotic nisin. Tetrahedron Letters, 1988, 29, 795-798.	1.4	65
44	Lymphoid tissue-resident Alcaligenes LPS induces IgA production without excessive inflammatory responses via weak TLR4 agonist activity. Mucosal Immunology, 2018, 11, 693-702.	6.0	65
45	Synthetic study of peptidoglycan partial structures. Synthesis of tetrasaccharide and octasaccharide fragments. Tetrahedron Letters, 2001, 42, 7613-7616.	1.4	62
46	Lanthiopeptin, a new peptide antibiotic. Production, isolation and properties of lanthiopeptin.. Journal of Antibiotics, 1989, 42, 837-845.	2.0	60
47	Endotoxic and immunobiological activities of a chemically synthesized lipid A of <i>Helicobacter pylori</i> strain 206. FEMS Immunology and Medical Microbiology, 2003, 36, 1-7.	2.7	60
48	Characterization of N-terminal Structure of TLR2-activating Lipoprotein in Staphylococcus aureus. Journal of Biological Chemistry, 2009, 284, 9147-9152.	3.4	60
49	A Divergent Synthesis of Lipid A and Its Chemically Stable Unnatural Analogues. Bulletin of the Chemical Society of Japan, 1999, 72, 1377-1385.	3.2	59
50	Highly Efficient Î€-Sialylation by Virtue of Fixed Dipole Effects of <i>N</i>-Phthalyl Group: Application to Continuous Flow Synthesis of Î€(2â€) and Î€(2â€)Neu5Acâ€Gal Motifs by Microreactor. Journal of Carbohydrate Chemistry, 2007, 26, 369-394.	1.1	59
51	Acceleration of Cu(I)-mediated Huisgen 1,3-dipolar cycloaddition by histidine derivatives. Tetrahedron Letters, 2007, 48, 6475-6479.	1.4	59
52	Synthetic Study on Peptide Antibiotic Nisin. V. Total Synthesis of Nisin. Bulletin of the Chemical Society of Japan, 1992, 65, 2227-2240.	3.2	57
53	Cell activation by monosaccharide lipid A analogues utilizing Toll-like receptor 4. Immunology, 2003, 110, 66-72.	4.4	54
54	Synthesis of Diaminopimelic Acid Containing Peptidoglycan Fragments and Tracheal Cytotoxin (TCT) and Investigation of Their Biological Functions. Chemistry - A European Journal, 2008, 14, 10318-10330.	3.3	53

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55	A Synthetic Peptidoglycan Fragment as a Competitive Inhibitor of the Melanization Cascade. <i>Journal of Biological Chemistry</i> , 2006, 281, 7747-7755.	3.4	50
56	Key structures of bacterial peptidoglycan and lipopolysaccharide triggering the innate immune system of higher animals: Chemical synthesis and functional studies. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2010, 86, 322-337.	3.8	49
57	The Peptide Sequence of Diacyl Lipopeptides Determines Dendritic Cell TLR2-Mediated NK Activation. <i>PLoS ONE</i> , 2010, 5, e12550.	2.5	49
58	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
59	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
60	Revisiting the Bromination of C-H Bonds with Molecular Bromine by Using a Photo-Microflow System. <i>Chemistry - A European Journal</i> , 2014, 20, 12750-12753.	3.3	46
61	A Role of Lipophilic Peptidoglycan-related Molecules in Induction of Nod1-mediated Immune Responses. <i>Journal of Biological Chemistry</i> , 2007, 282, 11757-11764.	3.4	45
62	Structural and mechanistic analysis of the membrane-embedded glycosyltransferase WaaA required for lipopolysaccharide synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6253-6258.	7.1	45
63	The attenuated inflammation of MPL is due to the lack of CD14-dependent tight dimerization of the TLR4/MD2 complex at the plasma membrane. <i>International Immunology</i> , 2014, 26, 307-314.	4.0	45
64	Synthetic Study of Lipoteichoic Acid of Gram Positive Bacteria. II. Synthesis of the Proposed Fundamental Structure of <i>Enterococcus hirae</i> Lipoteichoic Acid. <i>Bulletin of the Chemical Society of Japan</i> , 1994, 67, 473-482.	3.2	43
65	Practical Synthesis of a Man ¹ (1-4)GlcNTroc Fragment via Microfluidic ¹ 2-Mannosylation. <i>Journal of Carbohydrate Chemistry</i> , 2009, 28, 1-11.	1.1	43
66	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
67	Synthetic Study on Lipoteichoic Acid of Gram Positive Bacteria. I. Synthesis of Proposed Fundamental Structure of <i>Streptococcus pyogenes</i> Lipoteichoic Acid. <i>Bulletin of the Chemical Society of Japan</i> , 1992, 65, 2643-2654.	3.2	42
68	Site-Selective and Nondestructive Protein Labeling through Azaelectrocyclization-Induced Cascade Reactions. <i>ChemBioChem</i> , 2008, 9, 2392-2397.	2.6	42
69	Molecular cloning and functional characterization of porcine nucleotide-binding oligomerization domain-1 (NOD1) recognizing minimum agonists, meso-diaminopimelic acid and meso-lanthionine. <i>Molecular Immunology</i> , 2008, 45, 1807-1817.	2.2	42
70	Iodosobenzene-triflic anhydride as an efficient promoter for glycosidation reaction using thioglycosides as donors. <i>Tetrahedron Letters</i> , 1992, 33, 7165-7168.	1.4	41
71	Evidence of Immunostimulating Lipoprotein Existing in the Natural Lipoteichoic Acid Fraction. <i>Infection and Immunity</i> , 2007, 75, 1926-1932.	2.2	40
72	Solid-Phase Synthesis of a Phytoalexin Elicitor Pentasaccharide Using a 4-Azido-3-chlorobenzyl Group as the Key for Temporary Protection and Catch-and-Release Purification. <i>European Journal of Organic Chemistry</i> , 2003, 2003, 3435-3445.	2.4	39

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73	Mannose-Binding Lectin Augments the Uptake of Lipid A, Staphylococcus aureus, and Escherichia coli by Kupffer Cells through Increased Cell Surface Expression of Scavenger Receptor A. <i>Journal of Immunology</i> , 2006, 177, 5517-5523.	0.8	39
74	Recombinant Soluble Forms of Extracellular TLR4 Domain and MD-2 Inhibit Lipopolysaccharide Binding on Cell Surface and Dampen Lipopolysaccharide-Induced Pulmonary Inflammation in Mice. <i>Journal of Immunology</i> , 2006, 177, 8133-8139.	0.8	39
75	Synthesis of characteristic Mycobacterium peptidoglycan (PGN) fragments utilizing with chemoenzymatic preparation of meso-diaminopimelic acid (DAP), and their modulation of innate immune responses. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 1013-1023.	2.8	39
76	Lanthiopeptin, a new peptide effective against herpes simplex virus: Structural determination and comparison with Ro 09-0198, an immunopotentiating peptide. <i>Tetrahedron Letters</i> , 1988, 29, 4771-4772.	1.4	38
77	Synthesis of New Serine-Linked Oligosaccharides in Blood-Clotting Factors VII and IX and Protein Z. The Syntheses of O-1,3-D-Xylopyranosyl-(1→3)-D-glucopyranose, O-1,3-D-Xylopyranosyl-(1→3)-O-1,3-D-xylopyranosyl-(1→3)-D-glucopyranose, and Their Conjugates with Serine. <i>Bulletin of the Chemical Society of Japan</i> , 1992, 65, 436-445.	3.2	38
78	Mild but Efficient Methods for Stereoselective Glycosylation with Thioglycosides: Activation by [N-Phenylselenophthalimide-Mg(ClO ₄) ₂] and [PhIO-Mg(ClO ₄) ₂]. <i>Synlett</i> , 1998, 1998, 84-86.	1.8	38
79	Stereoselective glycosylation using the long-range effect of a [2-(4-phenylbenzyl)oxycarbonyl]benzoyl group. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 441-447.	1.8	38
80	Nucleotide Oligomerization Binding Domain-Like Receptor Signaling Enhances Dendritic Cell-Mediated Cross-Priming In Vivo. <i>Journal of Immunology</i> , 2010, 184, 736-745.	0.8	37
81	Cytotoxic Activity of Ursolic Acid Derivatives Obtained by Isolation and Oxidative Derivatization. <i>Molecules</i> , 2013, 18, 8929-8944.	3.8	37
82	Innate immunomodulation by lipophilic termini of lipopolysaccharide; synthesis of lipid As from Porphyromonas gingivalis and other bacteria and their immunomodulative responses. <i>Molecular BioSystems</i> , 2013, 9, 987.	2.9	37
83	New Efficient Synthesis of a Biosynthetic Precursor of Lipid A. <i>Bulletin of the Chemical Society of Japan</i> , 1997, 70, 1435-1440.	3.2	36
84	Chemical Synthesis of Cyclodextrins by Using Intramolecular Glycosylation. <i>Journal of Organic Chemistry</i> , 2002, 67, 8182-8190.	3.2	36
85	Synthesis of immunoregulatory Helicobacter pylori lipopolysaccharide partial structures. <i>Tetrahedron Letters</i> , 2007, 48, 6577-6581.	1.4	36
86	A Novel Oxidatively Removable Linker and Its Application to 1,3-Selective Solid-Phase Oligosaccharide Synthesis on a Macroporous Polystyrene Support. <i>Synlett</i> , 1999, 1999, 1074-1078.	1.8	35
87	Synthesis of Helicobacter pylori lipid A and its analogue using p-(trifluoromethyl)benzyl protecting group. <i>Tetrahedron Letters</i> , 2000, 41, 6843-6847.	1.4	35
88	Reinvestigation of the C5-acetamide sialic acid donor for 1,3-selective sialylation: practical procedure under microfluidic conditions. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 7243.	2.8	35
89	Cross-Tolerization between Nod1 and Nod2 Signaling Results in Reduced Refractoriness to Bacterial Infection in Nod2-Deficient Macrophages. <i>Journal of Immunology</i> , 2008, 181, 4340-4346.	0.8	34
90	Synthesis and immunomodulatory activities of Helicobacter pylori lipophilic terminus of lipopolysaccharide including lipid A. <i>Carbohydrate Research</i> , 2012, 356, 37-43.	2.3	34

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91	Synthesis of endotoxic principle of bacterial lipopolysaccharide and its recognition by the innate immune systems of hosts. <i>Chemical Record</i> , 2006, 6, 333-343.	5.8	33
92	WaaA of the Hyperthermophilic Bacterium <i>Aquifex aeolicus</i> Is a Monofunctional 3-Deoxy-d-manno-oct-2-ulosonic Acid Transferase Involved in Lipopolysaccharide Biosynthesis. <i>Journal of Biological Chemistry</i> , 2009, 284, 22248-22262.	3.4	33
93	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
94	A Combined 6-Åzaelectrocyclization/Staudinger Approach to Protein and Cell Engineering: Noninvasive Tumor Targeting by N-Glycan-Engineered Lymphocytes. <i>Journal of Carbohydrate Chemistry</i> , 2010, 29, 118-132.	1.1	32
95	3-Nitro-2-pyridyl glycoside as donor for chemical glycosylation and its application to chemoenzymatic synthesis of oligosaccharide. <i>Tetrahedron Letters</i> , 1999, 40, 6591-6593.	1.4	31
96	New Efficient Route for Solid-Phase Synthesis of Benzimidazole Derivatives. <i>ACS Combinatorial Science</i> , 2002, 4, 475-483.	3.3	31
97	Syntheses and Immunological Evaluation of Self-Adjuvanting Clustered N-Acetyl and N-Propionyl Sialyl-Tn Combined with a T-helper Cell Epitope as Antitumor Vaccine Candidates. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8219-8224.	13.8	31
98	Immunomodulating cancer therapy using ²¹¹ At-AMT targeting LAT1. <i>Cancer Science</i> , 2021, 112, 1132-1140.	13.40	31
99	Structural basis for endotoxic and antagonistic activities: investigation with novel synthetic lipid A analogs. <i>Journal of Endotoxin Research</i> , 2003, 9, 361-366.	2.5	29
100	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
101	A Review on Mechanistic Insight of Plant Derived Anticancer Bioactive Phytocompounds and Their Structure Activity Relationship. <i>Molecules</i> , 2022, 27, 3036.	3.8	29
102	Synthetic Study on Peptide Antibiotic Nisin. I. The Synthesis of Ring A. <i>Bulletin of the Chemical Society of Japan</i> , 1983, 56, 2044-2049.	3.2	28
103	Nitropyridyl glycosides: new glycosyl donors for enzymatic transglycosylation. <i>Tetrahedron Letters</i> , 1999, 40, 6585-6589.	1.4	28
104	TMSCl as a Mild and Effective Source of Acidic Catalysis in Fischer Glycosidation and Use of Propargyl Glycoside for Anomeric Protection. <i>Bioscience, Biotechnology and Biochemistry</i> , 2002, 66, 211-214.	1.3	28
105	Enzymatic Preparation of (S)-3-Hydroxytetradecanoic Acid and Synthesis of Unnatural Analogues of Lipid A Containing the (S)-Acid. <i>Bulletin of the Chemical Society of Japan</i> , 1997, 70, 1441-1450.	3.2	27
106	Physicochemical characterization of carboxymethyl lipid A derivatives in relation to biological activity. <i>FEBS Journal</i> , 2005, 272, 327-340.	4.7	27
107	Electrocyclization-Based Labeling Allows Efficient In Vivo Imaging of Cellular Trafficking. <i>ChemMedChem</i> , 2010, 5, 841-845.	3.2	27
108	Regioselective phosphorylation of myo-inositol with BINOL-derived phosphoramidites and its application for protozoan lysophosphatidylinositol. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 6672-6675.	2.8	27

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109	Immunological Evaluation of Co-Assembling a Lipidated Peptide Antigen and Lipophilic Adjuvants: Self-Adjuvanting Anti-Breast Cancer Vaccine Candidates. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17705-17711.	13.8	27
110	New methodology for high throughput solution-phase synthesis: affinity purification by using crown ether and ammonium ion interaction. <i>Tetrahedron Letters</i> , 1999, 40, 7479-7483.	1.4	26
111	Synthesis of [³ H]-Labeled Bioactive Lipid A Analogs and Their Use for Detection of Lipid A-Binding Proteins on Murine Macrophages. <i>Bulletin of the Chemical Society of Japan</i> , 2001, 74, 2189-2197.	3.2	26
112	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
113	Widely Applicable Deprotection Method of 2,2,2-Trichloroethoxycarbonyl (Troc) Group Using Tetrabutylammonium Fluoride. <i>Journal of Carbohydrate Chemistry</i> , 2010, 29, 289-298.	1.1	26
114	Nickel-Butadiene Catalytic System for the Cross-Coupling of Bromoalkanoic Acids with Alkyl Grignard Reagents: A Practical and Versatile Method for Preparing Fatty Acids. <i>Chemistry - A European Journal</i> , 2013, 19, 2956-2960.	3.3	26
115	Lipopolysaccharide from Gut-Associated Lymphoid Tissue Resident <i>Alcaligenes faecalis</i> : Complete Structure Determination and Chemical Synthesis of Its Lipid...A. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10023-10031.	13.8	26
116	4-Pivaloylaminobenzyl ether, a new temporary protection for hydroxyl functions. <i>Tetrahedron Letters</i> , 1991, 32, 4019-4022.	1.4	25
117	Chemoenzymatic synthesis of Gal(1-3)Gal(1-4)Xyl-1-Ser and Gal(1-3)Gal(1-4)Xyl-MU by the use of 1-2-d-galactosidase. <i>Tetrahedron Letters</i> , 1996, 37, 6763-6766.	1.4	25
118	Propargyloxycarbonyl and propargyl groups for novel protection of amino, hydroxy, and carboxy functions. <i>Tetrahedron Letters</i> , 1999, 40, 1169-1170.	1.4	25
119	Synthesis of lipid A and its analogues for investigation of the structural basis for their bioactivity. <i>Journal of Endotoxin Research</i> , 2005, 11, 341-347.	2.5	25
120	Highly Efficient Sialylation towards 1-(2-3)- and 1-(2-6)-Neu5Ac-Gal Synthesis: Significant Fixed Dipole Effect™ of N-Phthalyl Group on 1-Selectivity. <i>Synlett</i> , 2005, 2005, 2958-2962.	1.8	25
121	Failure of mycoplasma lipoprotein MALP-2 to induce NK cell activation through dendritic cell TLR2. <i>Microbes and Infection</i> , 2011, 13, 350-358.	1.9	25
122	Homeostatic and pathogenic roles of GM3 ganglioside molecular species in TLR4 signaling in obesity. <i>EMBO Journal</i> , 2020, 39, e101732.	7.8	25
123	A Review of Cytotoxic Plants of the Indian Subcontinent and a Broad-Spectrum Analysis of Their Bioactive Compounds. <i>Molecules</i> , 2020, 25, 1904.	3.8	25
124	Synthesis and biological activity of a model disaccharide containing a key unit in heparin for binding to platelets. <i>Tetrahedron Letters</i> , 1996, 37, 1053-1056.	1.4	24
125	Synthesis of lipid A monosaccharide analogues containing acidic amino acid: Exploring the structural basis for the endotoxic and antagonistic activities. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 6759-6777.	3.0	24
126	Efficient aldol condensation in aqueous biphasic system under microfluidic conditions. <i>Tetrahedron Letters</i> , 2008, 49, 2010-2012.	1.4	24

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127	Structures, Synthesis, and Human Nod1 Stimulation of Immunostimulatory Bacterial Peptidoglycan Fragments in the Environment. <i>Journal of Natural Products</i> , 2011, 74, 518-525.	3.0	24
128	Peptidoglycan as Nod1 ligand; fragment structures in the environment, chemical synthesis, and their innate immunostimulation. <i>Natural Product Reports</i> , 2012, 29, 568.	10.3	24
129	Development of bis-unsaturated ester aldehydes as amino-glue probes: sequential double azaelectrocyclization as a promising strategy for bioconjugation. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 7326.	2.8	24
130	Unveiling Molecular Recognition of Sialoglycans by Human Siglec-10. <i>IScience</i> , 2020, 23, 101231.	4.1	24
131	Synthesis of an analog of biosynthetic precursor Ia of lipid A by an improved method: a novel antagonist containing four (S)-3-hydroxy fatty acids. <i>Tetrahedron Letters</i> , 1995, 36, 7455-7458.	1.4	23
132	p-Nitrophenyl group for anomeric protection of oligosaccharides, selective oxidative cleavage via p-acetamidophenyl glycosides. <i>Tetrahedron Letters</i> , 1996, 37, 3343-3344.	1.4	23
133	NMR conformational analysis of biosynthetic precursor-type lipid A: monomolecular state and supramolecular assembly. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 3557.	2.8	23
134	Practical and Efficient Method for α -Sialylation with an Azide Sialyl Donor Using a Microreactor. <i>Journal of Carbohydrate Chemistry</i> , 2014, 33, 55-67.	1.1	23
135	Characterization of a Novel d-Glycero-d-talo-oct-2-ulosonic acid-substituted Lipid A Moiety in the Lipopolysaccharide Produced by the Acetic Acid Bacterium <i>Acetobacter pasteurianus</i> NBRC 3283. <i>Journal of Biological Chemistry</i> , 2016, 291, 21184-21194.	3.4	23
136	Isolated Polar Amino Acid Residues Modulate Lipid Binding in the Large Hydrophobic Cavity of CD1d. <i>ACS Chemical Biology</i> , 2016, 11, 3132-3139.	3.4	23
137	Development of α -Gal α 1-4Antibody Conjugates to Increase Immune Response by Recruiting Natural Antibodies. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4526-4530.	13.8	23
138	Enzymatic Synthesis of 4-Methylumbelliferyl Glycosides of Trisaccharide and Core Tetrasaccharide, Gal(β 1-3)Gal(β 1-4)Xyl and GlcA(β 1-3)Gal(β 1-3)Gal(β 1-4)Xyl, Corresponding to the Linkage Region of Proteoglycans. <i>Bulletin of the Chemical Society of Japan</i> , 1997, 70, 2719-2725.	3.2	22
139	Novel oxidatively removable protecting groups and linkers for solid-phase synthesis of oligosaccharides. <i>Molecular Diversity</i> , 1997, 2, 182-188.	3.9	22
140	Synthesis of ^{13}C -Labeled Biosynthetic Precursor of Lipid A and Its Analogue with Shorter Acyl Chains. <i>Bulletin of the Chemical Society of Japan</i> , 1999, 72, 1857-1867.	3.2	22
141	Library-directed Solution- and Solid-phase Synthesis of 2,4-Disubstituted Pyridines: One-pot Approach through β -Azaelectrocyclization. <i>Chemistry - an Asian Journal</i> , 2009, 4, 1573-1577.	3.3	22
142	Direct Guanylation of Amino Groups by Cyanamide in Water: Catalytic Generation and Activation of Unsubstituted Carbodiimide by Scandium(III) Triflate. <i>Synlett</i> , 2014, 25, 1302-1306.	1.8	22
143	Discovery of a Novel Scaffold as an Indoleamine 2,3-Dioxygenase...1 (IDO1) Inhibitor Based on the Pyrrolo-piperazinone Alkaloid, Longamide...B. <i>ChemMedChem</i> , 2016, 11, 2682-2689.	3.2	22
144	Ursolic acid derivatives from Bangladeshi medicinal plant, <i>Saurauja roxburghii</i> : Isolation and cytotoxic activity against A431 and C6 glioma cell lines. <i>Phytochemistry Letters</i> , 2011, 4, 287-291.	1.2	21

#	ARTICLE	IF	CITATIONS
145	Cell surface biotinylation by azaelectrocyclization: Easy-handling and versatile approach for living cell labeling. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 1865-1868.	3.0	21
146	Human SAP Is a Novel Peptidoglycan Recognition Protein That Induces Complement-Independent Phagocytosis of <i>Staphylococcus aureus</i> . <i>Journal of Immunology</i> , 2013, 191, 3319-3327.	0.8	21
147	Efficient Synthesis of Antigenic Trisaccharides Containing <i>N</i> -Acetylglucosamine: Protection of NHAc as NAc ₂ . <i>European Journal of Organic Chemistry</i> , 2020, 2020, 1802-1810.	2.4	21
148	Syntheses of Four Stereoisomers of β^2 -Methylanthionine. <i>Bulletin of the Chemical Society of Japan</i> , 1985, 58, 536-539.	3.2	20
149	Synthetic Study on Peptide Antibiotic Nisin. II. The Synthesis of Ring B. <i>Bulletin of the Chemical Society of Japan</i> , 1986, 59, 2505-2508.	3.2	20
150	Novel Molecular Clamp Method for Anomeric Stereocontrol of Glycosylation. <i>Synlett</i> , 1999, 1999, 1911-1914.	1.8	20
151	New deprotection method of the 2,2,2-trichloroethoxycarbonyl (Troc) group with (Bu ₃ Sn) ₂ . <i>Tetrahedron Letters</i> , 2005, 46, 6831-6832.	1.4	20
152	Synthesis of <i>Rubrivivax gelatinosus</i> Lipid A and Analogues for Investigation of the Structural Basis for Immunostimulating and Inhibitory Activities. <i>Bulletin of the Chemical Society of Japan</i> , 2008, 81, 796-819.	3.2	20
153	Acid-mediated reactions under microfluidic conditions: A new strategy for practical synthesis of biofunctional natural products. <i>Beilstein Journal of Organic Chemistry</i> , 2009, 5, 40.	2.2	20
154	Lipopeptides from <i>Staphylococcus aureus</i> as Tlr2 Ligands: Prediction with mRNA Expression, Chemical Synthesis, and Immunostimulatory Activities. <i>ChemBioChem</i> , 2009, 10, 2311-2315.	2.6	20
155	New strategy in synthetic biology: from enzyme inhibition and natural products synthesis to PET imaging by β -azaelectrocyclization. <i>Chemical Record</i> , 2010, 10, 119-139.	5.8	20
156	Bio-imaging and cancer targeting with glycoproteins and N-glycans. <i>Current Opinion in Chemical Biology</i> , 2012, 16, 614-621.	6.1	20
157	Glycan Sequence-Dependent Nod2 Activation Investigated by Using a Chemically Synthesized Bacterial Peptidoglycan Fragment Library. <i>ChemBioChem</i> , 2013, 14, 482-488.	2.6	20
158	One-Pot Synthesis of <i>N</i> -Acetyl- and <i>N</i> -Glycolylneuraminic Acid Capped Trisaccharides and Evaluation of Their Influenza A(H1N1) Inhibition. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2413-2416.	13.8	20
159	Application of 4-azidobenzyl group to protection of hydroxyl functions. <i>Tetrahedron Letters</i> , 1991, 32, 3557-3558.	1.4	19
160	4-Azido-3-chlorobenzyl Ether, New Protection for Hydroxy Functions. <i>Synlett</i> , 1997, 1997, 675-676.	1.8	19
161	New Efficient Route for Synthesis of Lipid A by using Affinity Separation. <i>Synlett</i> , 2001, 2001, 1693-1698.	1.8	19
162	Chlorotrimethylsilane as a Mild and Effective Source of Acid Catalyst in Reductive Benzylolation. <i>Chemistry Letters</i> , 2005, 34, 594-595.	1.3	19

#	ARTICLE	IF	CITATIONS
163	IEIS Meeting minireview: Chemical synthesis of peptidoglycan fragments for elucidation of the immunostimulating mechanism. <i>Journal of Endotoxin Research</i> , 2007, 13, 189-196.	2.5	19
164	Chemical N-Glycosylation by Asparagine under Integrated Microfluidic/Batch Conditions. <i>Synlett</i> , 2009, 2009, 1571-1574.	1.8	19
165	Efficient synthesis of 2,6,9-triazabicyclo[3.3.1]nonanes through amine-mediated formal [4+4] reaction of unsaturated imines. <i>Tetrahedron Letters</i> , 2012, 53, 5899-5902.	1.4	19
166	Efficient Synthesis of the Disialylated Tetrasaccharide Motif in N-Glycans through an Amide Protection Strategy. <i>Chemistry - an Asian Journal</i> , 2016, 11, 1436-1440.	3.3	19
167	Intratumoral administration of astatine-211-labeled gold nanoparticle for alpha therapy. <i>Journal of Nanobiotechnology</i> , 2021, 19, 223.	9.1	19
168	Structural basis for Glycan-receptor binding by mumps virus hemagglutinin-neuraminidase. <i>Scientific Reports</i> , 2020, 10, 1589.	3.3	19
169	Reactivity switching on solid support: solid-phase synthesis of tertiary amines by reduction of tertiary amides with LiAlH ₄ . <i>Tetrahedron Letters</i> , 2002, 43, 8867-8869.	1.4	18
170	Synthesis of crosslinked peptidoglycan fragments for investigation of their immunobiological functions. <i>Tetrahedron Letters</i> , 2009, 50, 3631-3634.	1.4	18
171	Characterization of Natural Human Nucleotide-binding Oligomerization Domain Protein 1 (Nod1) Ligands from Bacterial Culture Supernatant for Elucidation of Immune Modulators in the Environment. <i>Journal of Biological Chemistry</i> , 2010, 285, 23607-23613.	3.4	18
172	Target-selective fluorescent "switch-on" protein labeling by 6-azaelectrocyclization. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 5346.	2.8	18
173	Facile Preparation of 1,5-Diazacyclooctanes from Unsaturated Imines: Effects of the Hydroxyl Groups on [4+4] Dimerization. <i>Synlett</i> , 2014, 25, 1026-1030.	1.8	18
174	Synthesis of Cage-Shaped Aluminum Aryloxides: Efficient Lewis Acid Catalyst for Stereoselective Glycosylation Driven by Flexible Shift of Four- to Five-Coordination. <i>Journal of the American Chemical Society</i> , 2019, 141, 17466-17471.	13.7	18
175	Adjuvant Activity of Synthetic Lipid A of <i>Alcaligenes</i> , a Gut-Associated Lymphoid Tissue-Resident Commensal Bacterium, to Augment Antigen-Specific IgG and Th17 Responses in Systemic Vaccine. <i>Vaccines</i> , 2020, 8, 395.	4.4	18
176	A New Catch-and-Release Purification Method Using a 4-Azido-3-chlorobenzyl Group. <i>Synlett</i> , 2001, 2001, 0777-0780.	1.8	16
177	Synthesis Based on Affinity Separation (SAS): Separation of Products Having Barbituric Acid Tag from Untagged Compounds by Using Hydrogen Bond Interaction. <i>Synlett</i> , 2001, 2001, 0590-0596.	1.8	16
178	Synthesis and Biological Activities of Lipid A Analogs Possessing β -Glycosidic Linkage at 1-Position. <i>Bulletin of the Chemical Society of Japan</i> , 2003, 76, 485-500.	3.2	16
179	Convergent Synthesis of a Bisecting N-Acetylglucosamine (GlcNAc)-Containing N-Glycan. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1544-1551.	3.3	16
180	NPC1L1-dependent intestinal cholesterol absorption requires ganglioside GM3 in membrane microdomains. <i>Journal of Lipid Research</i> , 2018, 59, 2181-2187.	4.2	16

#	ARTICLE	IF	CITATIONS
181	Characterisation of the Dynamic Interactions between Complex <i>N</i> -Glycans and Human CD22. <i>ChemBioChem</i> , 2020, 21, 129-140.	2.6	16
182	Chemically Synthesized <i>Alcaligenes</i> Lipid A Shows a Potent and Safe Nasal Vaccine Adjuvant Activity for the Induction of <i>Streptococcus pneumoniae</i> -Specific IgA and Th17 Mediated Protective Immunity. <i>Microorganisms</i> , 2020, 8, 1102.	3.6	16
183	Functional Fluorescence Labeling of Carbohydrates and Its Use for Preparation of Neoglycoconjugates. <i>Journal of Carbohydrate Chemistry</i> , 1994, 13, 715-736.	1.1	15
184	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
185	Efficient Glycosylation Using In(OTf) ₃ as a Lewis Acid: Activation of <i>N</i> -Phenyltrifluoroacetimidate or Thioglycosides with Halogenated Reagents or PhIO. <i>Chemistry Letters</i> , 2014, 43, 956-958.	1.3	15
186	Employing BINOL-Phosphoroselenoyl Chloride for Selective Inositol Phosphorylation and Synthesis of Glycosyl Inositol Phospholipid from <i>Entamoeba histolytica</i> . <i>Chemistry - A European Journal</i> , 2017, 23, 8304-8308.	3.3	15
187	Narrower HOMO-LUMO gap attained by conformational switching through peripheral polyarylation in 1,4,5,8-tetraaza-9,10-anthraquinodimethanes. <i>Tetrahedron</i> , 2018, 74, 2239-2244.	1.9	15
188	Deficiency of sphingomyelin synthase 2 prolongs survival by the inhibition of lymphoma infiltration through ICAM-1 reduction. <i>FASEB Journal</i> , 2020, 34, 3838-3854.	0.5	15
189	Lymphoid Tissue-Resident <i>Alcaligenes</i> Establish an Intracellular Symbiotic Environment by Creating a Unique Energy Shift in Dendritic Cells. <i>Frontiers in Microbiology</i> , 2020, 11, 561005.	3.5	15
190	Synthesis and immunoreactivity of poly(acrylamide) copolymers containing C-3- and C-7-modified, carboxyl-reduced, 4-O- and 5-O-phosphorylated K. <i>Carbohydrate Research</i> , 1993, 238, 93-107.	2.3	14
191	Novel Dehydrative Glycosylation by Using Acid Anhydride and TMSClO ₄ . <i>Chemistry Letters</i> , 1999, 28, 27-28.	1.3	14
192	Auxiliary-directed oxidation of ursolic acid by Ru-porphyrins: chemical modulation of cytotoxicity against tumor cell lines. <i>Tetrahedron Letters</i> , 2012, 53, 1756-1759.	1.4	14
193	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
194	Kinetically Controlled Fischer Glycosidation under Flow Conditions: A New Method for Preparing Furanosides. <i>Synlett</i> , 2019, 30, 397-400.	1.8	14
195	Highly β -Selective Mannosylation towards Man β 1-4GlcNAc Synthesis: TMSB(C ₆ F ₅) ₄ as a Lewis Acid/Cation Trap Catalyst. <i>Synlett</i> , 2005, 2005, 2325-2328.	1.8	13
196	Synthesis and bioactivity of fluorescence- and biotin-labeled lipid A analogues for investigation of recognition mechanism in innate immunity. <i>Tetrahedron Letters</i> , 2006, 47, 539-543.	1.4	13
197	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
198	Branched Sialylated β -mannan-glycans Are Accumulated in Brain Synaptosomes and Interact with Siglec-H. <i>Cell Structure and Function</i> , 2018, 43, 141-152.	1.1	13

#	ARTICLE	IF	CITATIONS
199	Recent Advances in the Chemical Biology of N-Glycans. <i>Molecules</i> , 2021, 26, 1040.	3.8	13
200	Synthesis and biological activity of phosphoglycolipids from <i>Thermus thermophilus</i> . <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 5034.	2.8	12
201	Development of \pm 1,6-fucosyltransferase inhibitors through the diversity-oriented syntheses of GDP-fucose mimics using the coupling between alkyne and sulfonyl azide. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 2844-2850.	3.0	12
202	A Comprehensive Study of the Interaction between Peptidoglycan Fragments and the Extracellular Domain of <i>Mycobacterium tuberculosis</i> Ser/Thr Kinase PknB. <i>ChemBioChem</i> , 2017, 18, 2094-2098.	2.6	12
203	Syntheses and Functional Studies of Self-Adjuvanting Anti-HER2 Cancer Vaccines. <i>Chemistry - an Asian Journal</i> , 2019, 14, 4268-4273.	3.3	12
204	An Improved Synthesis of threo-3-Methyl-D-cysteine. <i>Bulletin of the Chemical Society of Japan</i> , 1983, 56, 1559-1560.	3.2	11
205	Synthetic Study on Peptide Antibiotic Nisin. IV. Synthesis of Ring D-E. <i>Bulletin of the Chemical Society of Japan</i> , 1990, 63, 1758-1763.	3.2	11
206	Synthesis of Allyl 3-Deoxy-D-manno-2-octulopyranosidic Acid 4- and 5-Phosphates. <i>Bulletin of the Chemical Society of Japan</i> , 1991, 64, 3267-3273.	3.2	11
207	Synthetic route for ¹⁴ C-labeling of a bioactive lipid analogue. <i>Tetrahedron Letters</i> , 1995, 36, 8645-8648.	1.4	11
208	Traceless solid-phase synthesis of multiple sulfonamide-containing cyclic sulfides exploiting microwave irradiation. <i>Tetrahedron Letters</i> , 2009, 50, 4364-4367.	1.4	11
209	Efficient Synthesis of (S)-Hanishin, (S)-Longamide B, and (S)-Longamide B Methyl Ester through Piperazinone Formation from 1,2-Cyclic Sulfamidates. <i>Synlett</i> , 2016, 27, 616-620.	1.8	11
210	Synthesis of Peptidoglycan Fragments from <i>Enterococcus faecalis</i> with Fmoc-Strategy for Glycan Elongation. <i>Chemistry - an Asian Journal</i> , 2017, 12, 27-30.	3.3	11
211	Porous nanosheet wrapping for live imaging of suspension cells. <i>Journal of Materials Chemistry B</i> , 2018, 6, 6622-6628.	5.8	11
212	Synthesis of Bacterial Glycoconjugates and Their Bio-functional Studies in Innate Immunity. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2012, 70, 113-130.	0.1	11
213	Stereoselective Glycosylation of 3-Deoxy-d-manno-2-octulosonic Acid with Batch and Microfluidic Methods. <i>Synlett</i> , 2011, 2011, 2359-2362.	1.8	10
214	Discovery and application of δ -azaelectrocyclization to natural product synthesis and synthetic biology. <i>Science China Chemistry</i> , 2012, 55, 19-30.	8.2	10
215	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
216	Flow Dehydration and Hydrogenation of Allylic Alcohols: Application to the Waste-Free Synthesis of Pristane. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 1365-1368.	2.4	10

#	ARTICLE	IF	CITATIONS
217	Homeostatic and pathogenic roles of the GM3 ganglioside. <i>FEBS Journal</i> , 2022, 289, 5152-5165.	4.7	10
218	Conformational Study of a Tetraacyl Biosynthetic Precursor of Lipid A by NMR. <i>Bulletin of the Chemical Society of Japan</i> , 2001, 74, 1455-1461.	3.2	9
219	Development of a simple assay system for protein-stabilizing efficiency based on hemoglobin protection against denaturation and measurement of the cooperative effect of mixing protein stabilizers. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 1874-1878.	1.3	9
220	Syntheses of N-aryl-protected glucosamines and their stereoselectivity in chemical glycosylations. <i>Tetrahedron Letters</i> , 2017, 58, 3019-3023.	1.4	9
221	Bradyrhizobium Lipid A: Immunological Properties and Molecular Basis of Its Binding to the Myeloid Differentiation Protein-2/Toll-Like Receptor 4 Complex. <i>Frontiers in Immunology</i> , 2018, 9, 1888.	4.8	9
222	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
223	Recent advances in self-adjuvanting glycoconjugate vaccines. <i>Drug Discovery Today: Technologies</i> , 2020, 37, 61-71.	4.0	9
224	Pyrazolo[4,3- <i>d</i>]pyrimidine Derivatives as a Novel Hypoxia-Inducible Factor Prolyl Hydroxylase Domain Inhibitor for the Treatment of Anemia. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 1416-1420.	2.8	9
225	Chemical Synthesis of Bacterial Glycoconjugates in Relation to Their Immunostimulating Activity.. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 1996, 54, 976-987.	0.1	9
226	In Silico Analysis and Experimental Evaluation of Ester Prodrugs of Ketoprofen for Oral Delivery: With a View to Reduce Toxicity. <i>Processes</i> , 2021, 9, 2221.	2.8	9
227	Synthetic Study on Peptide Antibiotic Nisin. III. Synthesis of Ring C. <i>Bulletin of the Chemical Society of Japan</i> , 1990, 63, 1838-1840.	3.2	8
228	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
229	Probe design and synthesis of Gal β (1 \rightarrow 3)[NeuAc \pm (2 \rightarrow 6)]GlcNAc β (1 \rightarrow 2)Man motif of N-glycan. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 3760-3766.	3.0	8
230	Structural Characterization of Neutral and Acidic Glycolipids from <i>Thermus thermophilus</i> HB8. <i>PLoS ONE</i> , 2012, 7, e35067.	2.5	8
231	Peptidoglycan microarray as a novel tool to explore protein-ligand recognition. <i>Biopolymers</i> , 2016, 106, 422-429.	2.4	8
232	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
233	The second and third amino acids of Pam2 lipopeptides are key for the proliferation of cytotoxic T cells. <i>Innate Immunity</i> , 2018, 24, 323-331.	2.4	8
234	Lipid A-Mediated Bacterial-Host Chemical Ecology: Synthetic Research of Bacterial Lipid As and Their Development as Adjuvants. <i>Molecules</i> , 2021, 26, 6294.	3.8	8

#	ARTICLE	IF	CITATIONS
235	Energetics of lipid transport by the ABC transporter MsbA is lipid dependent. <i>Communications Biology</i> , 2021, 4, 1379.	4.4	8
236	Revisiting Glycosylations Using Glycosyl Fluoride by BF ₃ ·Et ₂ O: Activation of Disarmed Glycosyl Fluorides with High Catalytic Turnover. <i>Organic Letters</i> , 2022, 24, 6-10.	4.6	8
237	Conformational studies on a unique bis-sulfated glycolipid using NMR spectroscopy and molecular dynamics simulations. <i>FEBS Journal</i> , 2000, 267, 6790-6797.	0.2	7
238	A New Catch-and-release Purification Method Using a Levulinyl Group as a Tag and Its Application to Oligosaccharide Synthesis. <i>Chemistry Letters</i> , 2008, 37, 1030-1031.	1.3	7
239	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
240	Expanding the Applicability of the Metal Labeling of Biomolecules by the RIKEN Click Reaction: A Case Study with Gallium-68 Positron Emission Tomography. <i>ChemBioChem</i> , 2018, 19, 2055-2060.	2.6	7
241	Lipopolysaccharide Derived From the Lymphoid-Resident Commensal Bacteria <i>Alcaligenes faecalis</i> Functions as an Effective Nasal Adjuvant to Augment IgA Antibody and Th17 Cell Responses. <i>Frontiers in Immunology</i> , 2021, 12, 699349.	4.8	7
242	Solid-Phase Synthesis of Indol-2-ones by Microwave-Assisted Radical Cyclization. <i>Synlett</i> , 2004, 2004, 1049-1053.	1.8	6
243	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
244	Total Synthesis of Cardiolipins Containing Chiral Cyclopropane Fatty Acids. <i>Journal of Organic Chemistry</i> , 2017, 82, 7832-7838.	3.2	6
245	Introduction of 4-Chlorophenyl: A Protecting Group for the Hydroxy Function. <i>Synlett</i> , 2018, 29, 1510-1516.	1.8	6
246	Development of GalNAc Antibody Conjugates to Increase Immune Response by Recruiting Natural Antibodies. <i>Angewandte Chemie</i> , 2019, 131, 4574-4578.	2.0	6
247	Chemical Synthesis of Sialyl N-Glycans and Analysis of Their Recognition by Neuraminidase. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24686-24693.	13.8	6
248	Molecular recognition of sialoglycans by streptococcal Siglec-like adhesins: toward the shape of specific inhibitors. <i>RSC Chemical Biology</i> , 2021, 2, 1618-1630.	4.1	6
249	Synthetic Study of a Bioactive 3H-Labeled Analogue of Lipid A. <i>Synlett</i> , 1996, 1996, 252-254.	1.8	5
250	Synthesis and Biological Activities of Biscarboxymethyl Lipid A Analogues. <i>Heterocycles</i> , 2006, 69, 395.	0.7	5
251	A conformationally fixed analog of the peptide mimic Grb2 SH2 domain: synthesis and evaluation against the A431 cancer cell. <i>Molecular BioSystems</i> , 2013, 9, 1019.	2.9	5
252	Time-lapse monitoring of TLR2 ligand internalization with newly developed fluorescent probes. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 3824-3830.	2.8	5

#	ARTICLE	IF	CITATIONS
253	Syntheses and Immunological Evaluation of Self-Adjuvanting Clustered N-Acetyl and N-Propionyl Sialyl-Tn Combined with a Helper Cell Epitope as Antitumor Vaccine Candidates. <i>Angewandte Chemie</i> , 2018, 130, 8351-8356.	2.0	5
254	Synthesis of cyclotetrapeptide analogues of c-PLAI and evaluation of their antimicrobial properties. <i>Royal Society Open Science</i> , 2021, 8, 201822.	2.4	5
255	Effective Synthesis of Oligosaccharide under Microfluidic Conditions. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2015, 73, 452-459.	0.1	5
256	Solid-phase Synthesis of Oligosaccharides Using Novel Alkyne-type Linkers: Selection of Reactive Sites on the Support by Sonogashira Reaction. <i>Synlett</i> , 2002, 2002, 1409-1416.	1.8	4
257	Synthetic Chemistry and Function of Bacterial Cell Surface Glycoconjugates. <i>Journal of the Chinese Chemical Society</i> , 2002, 49, 453-458.	1.4	4
258	Inhibition of lipid A-mediated type I interferon induction by Bactericidal/permeability-increasing protein (BPI). <i>Biochemical and Biophysical Research Communications</i> , 2007, 354, 574-578.	2.1	4
259	Funiculosin variants and phosphorylated derivatives promote innate immune responses via the Toll-like receptor 4/myeloid differentiation factor-2 complex. <i>Journal of Biological Chemistry</i> , 2017, 292, 15378-15394.	3.4	4
260	Highly Efficient Coupling of Unstable Bicyclic Pyrimidines and Pyrazoles under Basic Conditions, and its Application to the Synthesis of Pharmaceutical Compounds. <i>Synlett</i> , 2018, 29, 1867-1870.	1.8	4
261	Synthesis of Cyclopropane Fatty Acids by C ³ -C ³ Cross-Coupling Reaction and Formal Synthesis of Î±-Mycolic Acid. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 3810-3817.	4.3	4
262	Chemically Synthesized <i>Alcaligenes</i> Lipid A as an Adjuvant to Augment Immune Responses to <i>Haemophilus Influenzae</i> Type B Conjugate Vaccine. <i>Frontiers in Pharmacology</i> , 2021, 12, 763657.	3.5	4
263	Identification of Trisaccharide Xyl1â±3Xyl1â±3Glc in Human Urine. <i>Bioscience, Biotechnology and Biochemistry</i> , 1994, 58, 567-569.	1.3	3
264	Chemoenzymatic Synthesis of a Trisaccharide-Serine Conjugate, Gal(Î²1-3)Gal(Î²1-4)Xyl(Î²1-O)-L-Ser, Use of Galactosyl Fluoride as a Donor for Transglycosylation. <i>Bulletin of the Chemical Society of Japan</i> , 2001, 74, 1123-1128.	3.2	3
265	A Direct Continuous Spectrophotometric Assay for Glycosidases with 3-Nitro-2-pyridyl Glycosides by Tautomerization of 2-Hydroxy-3-nitropyridine. <i>Analytical Biochemistry</i> , 2002, 302, 291-297.	2.4	3
266	Combinatorial Methods in Oligosaccharide Synthesis. , 2008, , 1205-1240.		3
267	Polymer-Supported and Tag-Assisted Methods in Oligosaccharide Synthesis. , 2008, , 1241-1277.		3
268	Solid-phase Synthesis of Bacterial Cell Wall Peptidoglycan Fragments. <i>Chemistry Letters</i> , 2014, 43, 1461-1463.	1.3	3
269	Î²-Selective Glycosylation by Using O-Aryl-Protected Glycosyl Donors. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2719-2723.	3.3	3
270	Discrimination of cellular developmental states focusing on glycan transformation and membrane dynamics by using BODIPY-tagged lactosyl ceramides. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 3724-3733.	2.8	3

#	ARTICLE	IF	CITATIONS
271	Challenge of Organic Synthesis-toward the 21st Century. Combinatorial Chemistry.. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 1997, 55, 474-479.	0.1	3
272	Precise immunological evaluation rationalizes the design of a self-adjuvanting vaccine composed of glycan antigen, TLR1/2 ligand, and T-helper cell epitope. RSC Advances, 2022, 12, 18985-18993.	3.6	3
273	Chemical synthesis of bacterial lipid A. , 2010, , 413-427.		2
274	Erratum to "Key structures of bacterial peptidoglycan and lipopolysaccharide triggering the innate immune system of higher animals: Chemical synthesis and functional studies". Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2010, 86, 538-538.	3.8	2
275	The Core Fucose on an IgG Antibody is an Endogenous Ligand of Dectin-1. Angewandte Chemie, 2019, 131, 18870-18875.	2.0	2
276	Single-Step Per-O-Sulfonation of Sugar Oligomers with Concomitant 1,6-Anhydro Bridge Formation for Binding Fibroblast Growth Factors. ChemBioChem, 2019, 20, 237-240.	2.6	2
277	Total Syntheses of C60- and C100-Dolichols. Journal of Organic Chemistry, 2020, 85, 11549-11559.	3.2	2
278	Development of Azaelectrocyclization-Based Labeling and Application to Noninvasive Imaging and Targeting Using "N-Glycan Derivatives" In Pursuit of "N-Glycan Functions on Proteins, Dendrimers, and Living Cells". Trends in Glycoscience and Glycotechnology, 2012, 24, 47-64.	0.1	2
279	Efficient Synthesis of Marine Alkaloid Ageladine A and its Structural Modification for Exploring New Biological Activity. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2020, 78, 51-59.	0.1	2
280	Synthesis Based on Affinity Separation: A New Methodology for High-Throughput Synthesis Using Affinity Tags. ACS Symposium Series, 2004, , 87-98.	0.5	1
281	Lipopolysaccharide from Gut-Associated Lymphoid Tissue Resident <i>Alcaligenes faecalis</i> : Complete Structure Determination and Chemical Synthesis of Its Lipid...A. Angewandte Chemie, 2021, 133, 10111-10119.	2.0	1
282	Chemical Synthesis of Lipoteichoic Acid, Biological Active Glycoconjugate of Gram-positive Bacterial Cell Surface.. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 1992, 50, 401-409.	0.1	1
283	Key structures of bacterial peptidoglycan and lipopolysaccharide triggering the innate immune system of higher animals: Chemical synthesis and functional studies". Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2010, 86, 322-37.	3.8	1
284	Upregulation of PGRPs by chemically synthesized pathogen-associated molecular patterns via Toll-like receptors, NOD1 and NOD2 in oral epithelial cells. International Congress Series, 2005, 1284, 163-168.	0.2	0
285	Chemical Approach to a Whole Body Imaging of Sialo-N-Linked Glycans. Topics in Current Chemistry, 2014, 367, 201-230.	4.0	0
286	Bio-inspired Domino Reduction of Nitroarenes by Acrolein "Amine Conjugates in One-pot Operation. Chemistry Letters, 2017, 46, 811-813.	1.3	0
287	Analysis of electrostatic interaction between ganglioside GM3 and transmembrane peptide. AIP Conference Proceedings, 2019, , .	0.4	0
288	Temporal analysis of localization and trafficking of glycolipids. Biochemical and Biophysical Research Communications, 2020, 532, 19-24.	2.1	0

#	ARTICLE	IF	CITATIONS
289	Immunological Evaluation of Co-Assembling a Lipidated Peptide Antigen and Lipophilic Adjuvants: Self-Adjuvanting Anti-Breast Cancer Vaccine Candidates. <i>Angewandte Chemie</i> , 2020, 132, 17858-17864.	2.0	0
290	Glycoconjugates for Adjuvants and Self-Adjuvanting Vaccines. , 2021, , 166-184.		0
291	Chemical Synthesis of Sialyl N-Glycans and Analysis of Their Recognition by Neuraminidase. <i>Angewandte Chemie</i> , 2021, 133, 24891.	2.0	0
292	Conjugation Strategies for Development of Bioactive Middle Molecules. , 2021, , 3-20.		0
293	Middle Molecular and Conjugation Strategies for Development of Bioactive Middle Molecules. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2020, 78, 527-537.	0.1	0
294	Rationale for Translational Research on Targeted Alpha Therapy in Japan -Renaissance of Radiopharmaceuticals Utilizing Astatine-211 and Actinium-225-. <i>Radioisotopes</i> , 2020, 69, 329-340.	0.2	0