Koichi Fukase

List of Publications by Year
in descending order

294 papers	15,347 citations	31949 53 h-index	22808 112 g-index
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. Journal of Biological Chemistry, 2003, 278, 5509-5512.	1.6	1,473
2	An essential role for NOD1 in host recognition of bacterial peptidoglycan containing diaminopimelic acid. Nature Immunology, 2003, 4, 702-707.	7.0	1,139
3	Toll-like receptor 4 imparts ligand-specific recognition of bacterial lipopolysaccharide. Journal of Clinical Investigation, 2000, 105, 497-504.	3.9	678
4	A critical role of RICK/RIP2 polyubiquitination in Nod-induced NF-ÎºB activation. EMBO Journal, 2008, 27, 373-383.	3.5	469
5	Crystal Structures of Human MD-2 and Its Complex with Antiendotoxic Lipid IVa. Science, 2007, 316, 1632-1634.	6.0	436
6	Monomeric and Polymeric Gram-Negative Peptidoglycan but Not Purified LPS Stimulate the Drosophila IMD Pathway. Immunity, 2004, 20, 637-649.	6.6	391
7	Virulence factors of Yersinia pestis are overcome by a strong lipopolysaccharide response. Nature Immunology, 2006, 7, 1066-1073.	7.0	364
8	Lipopolysaccharide Interaction with Cell Surface Toll-like Receptor 4-MD-2. Journal of Experimental Medicine, 2003, 198, 1035-1042.	4.2	353
9	Autophagic control of listeria through intracellular innate immune recognition in drosophila. Nature Immunology, 2008, 9, 908-916.	7.0	332
10	Structural basis of species-specific endotoxin sensing by innate immune receptor TLR4/MD-2. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7421-7426.	3.3	290
11	Various human epithelial cells express functional Toll-like receptors, NOD1 and NOD2 to produce anti-microbial peptides, but not proinflammatory cytokines. Molecular Immunology, 2007, 44, 3100-3111.	1.0	282
12	Human MD-2 confers on mouse Toll-like receptor 4 species-specific lipopolysaccharide recognition. International Immunology, 2001, 13, 1595-1599.	1.8	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. International Immunology, 2004, 16, 961-969.	1.8	210
14	Human Peptidoglycan Recognition Protein-L Is an N-Acetylmuramoyl-L-alanine Amidase. Journal of Biological Chemistry, 2003, 278, 49044-49052.	1.6	206
15	Aggregates Are the Biologically Active Units of Endotoxin. Journal of Biological Chemistry, 2004, 279, 26307-26313.	1.6	199
16	Nod1 acts as an intracellular receptor to stimulate chemokine production and neutrophil recruitment in vivo. Journal of Experimental Medicine, 2006, 203, 203-213.	4.2	199
17	The NLRP6 Inflammasome Recognizes Lipoteichoic Acid and Regulates Gram-Positive Pathogen Infection. Cell, 2018, 175, 1651-1664.e14.	13.5	195
18	Molecular basis for bacterial peptidoglycan recognition by LysM domains. Nature Communications, 2014, 5, 4269.	5.8	167

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19	Regulatory Roles for MD-2 and TLR4 in Ligand-Induced Receptor Clustering. Journal of Immunology, 2006, 176, 6211-6218.	0.4	166
20	Nod1/RICK and TLR Signaling Regulate Chemokine and Antimicrobial Innate Immune Responses in Mesothelial Cells. Journal of Immunology, 2007, 179, 514-521.	0.4	165
21	Intrinsic conformation of lipid A is responsible for agonistic and antagonistic activity. FEBS Journal, 2000, 267, 3032-3039.	0.2	164
22	Differential Release and Distribution of Nod1 and Nod2 Immunostimulatory Molecules among Bacterial Species and Environments. Journal of Biological Chemistry, 2006, 281, 29054-29063.	1.6	146
23	Combinational clustering of receptors following stimulation by bacterial products determines lipopolysaccharide responses. Biochemical Journal, 2004, 381, 527-536.	1.7	131
24	A Dominant Role of Toll-Like Receptor 4 in the Signaling of Apoptosis in Bacteria-Faced Macrophages. Journal of Immunology, 2003, 171, 4294-4303.	0.4	124
25	A Submicrogramâ€Scale Protocol for Biomoleculeâ€Based PET Imaging by Rapid 6Ï€â€Azaelectrocyclization: Visualization of Sialic Acid Dependent Circulatory Residence of Glycoproteins. Angewandte Chemie - International Edition, 2008, 47, 102-105.	7.2	114
26	Effects of dehydroalanine on peptide conformations. Journal of the American Chemical Society, 1992, 114, 5634-5642.	6.6	112
27	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. Organic and Biomolecular Chemistry, 2008, 6, 815.	1.5	111
28	Large-Scale Synthesis of Immunoactivating Natural Product, Pristane, by Continuous Microfluidic Dehydration as the Key Step. Organic Letters, 2007, 9, 299-302.	2.4	105
29	Differential Modulation of Nods Signaling Pathways by Fatty Acids in Human Colonic Epithelial HCT116 Cells. Journal of Biological Chemistry, 2007, 282, 11618-11628.	1.6	104
30	First Total Synthesis of the Re-Type Lipopolysaccharide. Angewandte Chemie - International Edition, 2001, 40, 1475-1480.	7.2	103
31	Noninvasive Imaging of Dendrimerâ€Type Nâ€Glycan Clusters: In Vivo Dynamics Dependence on Oligosaccharide Structure. Angewandte Chemie - International Edition, 2010, 49, 8195-8200.	7.2	100
32	Dendritic Cell Maturation Induced by Muramyl Dipeptide (MDP) Derivatives: Monoacylated MDP Confers TLR2/TLR4 Activation. Journal of Immunology, 2005, 174, 7096-7103.	0.4	96
33	Nod1 Ligands Induce Site-Specific Vascular Inflammation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 1093-1099.	1.1	82
34	Divergent synthesis and biological activities of lipid A analogues of shorter acyl chains. Tetrahedron, 1998, 54, 4033-4050.	1.0	80
35	Differential Activation of Human TLR4 by Escherichia coli and Shigella flexneri 2a Lipopolysaccharide: Combined Effects of Lipid A Acylation State and TLR4 Polymorphisms on Signaling. Journal of Immunology, 2008, 180, 1139-1147.	0.4	80
36	Regioselective Reductive Opening of 4,6-O-Benzylidene Acetals of Glucose or Glucosamine Derivatives by BH3â‹…Me2NH - BF3â‹…OEt2. Synlett, 1996, 1996, 1179-1180.	1.0	76

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37	Meso-Diaminopimelic Acid and Meso-Lanthionine, Amino Acids Specific to Bacterial Peptidoglycans, Activate Human Epithelial Cells through NOD1. Journal of Immunology, 2006, 177, 1796-1804.	0.4	76
38	A stereoselective glycosidation using thioglycosides, activation by combination of N-bromosuccinimide and strong acid salts. Tetrahedron, 1995, 51, 4923-4932.	1.0	73
39	Synthesis of peptidoglycan fragments and evaluation of their biological activity. Organic and Biomolecular Chemistry, 2006, 4, 232-242.	1.5	73
40	Exploring a Unique Reactivity of 6Ï€-Azaelectrocyclization to Enzyme Inhibition, Natural Products Synthesis, and Molecular Imaging: An Approach to Chemical Biology by Synthetic Chemists. Synlett, 2011, 2011, 2115-2139.	1.0	72
41	Chemical Synthesis of Helicobacter pylori Lipopolysaccharide Partial Structures and their Selective Proinflammatory Responses. Chemistry - A European Journal, 2011, 17, 14464-14474.	1.7	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.	1.0	66
43	Total synthesis of peptide antibiotic nisin. Tetrahedron Letters, 1988, 29, 795-798.	0.7	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.	2.7	65
45	Synthetic study of peptidoglycan partial structures. Synthesis of tetrasaccharide and octasaccharide fragments. Tetrahedron Letters, 2001, 42, 7613-7616.	0.7	62
46	Lanthiopeptin, a new peptide antibiotic. Production, isolation and properties of lanthiopeptin.. Journal of Antibiotics, 1989, 42, 837-845.	1.0	60
47	Endotoxic and immunobiological activities of a chemically synthesized lipid A ofHelicobacter pyloristrain 206Ã¢Â€Â“1. 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.	1.6	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.	2.0	59
50	Highly Efficient Î±â€Sialylation by Virtue of Fixed Dipole Effects ofNâ€Phthalyl Group: Application to Continuous Flow Synthesis of Î±(2â€3)â€and Î±(2â€6)â€Neu5Acâ€Gal Motifs by Microreactor. Journal of Carbohydrate Chemistry, 2007, 26, 369-394.	0.4	59
51	Acceleration of Cu(I)-mediated Huisgen 1,3-dipolar cycloaddition by histidine derivatives. Tetrahedron Letters, 2007, 48, 6475-6479.	0.7	59
52	Synthetic Study on Peptide Antibiotic Nisin. V. Total Synthesis of Nisin. Bulletin of the Chemical Society of Japan, 1992, 65, 2227-2240.	2.0	57
53	Cell activation by monosaccharide lipid A analogues utilizing Toll-like receptor 4. Immunology, 2003, 110, 66-72.	2.0	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.	1.7	53

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55	A Synthetic Peptidoglycan Fragment as a Competitive Inhibitor of the Melanization Cascade. Journal of Biological Chemistry, 2006, 281, 7747-7755.	1.6	50
56	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, 322-337.	1.6	49
57	The Peptide Sequence of Diacyl Lipopeptides Determines Dendritic Cell TLR2-Mediated NK Activation. PLoS ONE, 2010, 5, e12550.	1.1	49
58	Chemical Synthesis of a Complex-Type N-Glycan Containing a Core Fucose. Journal of Organic Chemistry, 2016, 81, 10600-10616.	1.7	49
59	Synthesis of a Sialic Acid Containing Complexâ€Type Nâ€Glycan on a Solid Support. Chemistry - an Asian Journal, 2009, 4, 574-580.	1.7	47
60	Revisiting the Bromination of Cï£¿H Bonds with Molecular Bromine by Using a Photoâ€Microflow System. Chemistry - A European Journal, 2014, 20, 12750-12753.	1.7	46
61	A Role of Lipophilic Peptidoglycan-related Molecules in Induction of Nod1-mediated Immune Responses. Journal of Biological Chemistry, 2007, 282, 11757-11764.	1.6	45
62	Structural and mechanistic analysis of the membrane-embedded glycosyltransferase WaaA required for lipopolysaccharide synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6253-6258.	3.3	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. International Immunology, 2014, 26, 307-314.	1.8	45
64	Synthetic Study of Lipoteichoic Acid of Gram Positive Bacteria. II. Synthesis of the Proposed Fundamental Structure ofEnterococcus hiraeLipoteichoic Acid. Bulletin of the Chemical Society of Japan, 1994, 67, 473-482.	2.0	43
65	Practical Synthesis of a Manβ(1-4)GlcNTroc Fragment via Microfluidic β-Mannosylation. Journal of Carbohydrate Chemistry, 2009, 28, 1-11.	0.4	43
66	Renaissance of Traditional Organic Reactions under Microfluidic Conditions: A New Paradigm for Natural Products Synthesis. Organic Process Research and Development, 2009, 13, 983-990.	1.3	43
67	Synthetic Study on Lipoteichoic Acid of Gram Positive Bacteria. I. Synthesis of Proposed Fundamental Structure ofStreptococcus pyogenesLipoteichoic Acid. Bulletin of the Chemical Society of Japan, 1992, 65, 2643-2654.	2.0	42
68	Siteâ€Selective and Nondestructive Protein Labeling through Azaelectrocyclizationâ€Induced Cascade Reactions. ChemBioChem, 2008, 9, 2392-2397.	1.3	42
69	Molecular cloning and functional characterization of porcine nucleotide-binding oligomerization domain-1 (NOD1) recognizing minimum agonists, meso-diaminopimelic acid and meso-lanthionine. Molecular Immunology, 2008, 45, 1807-1817.	1.0	42
70	Iodosobenzene-triflic anhydride as an efficient promoter for glycosidation reaction using thioglycosides as donors. Tetrahedron Letters, 1992, 33, 7165-7168.	0.7	41
71	Evidence of Immunostimulating Lipoprotein Existing in the Natural Lipoteichoic Acid Fraction. Infection and Immunity, 2007, 75, 1926-1932.	1.0	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. European Journal of Organic Chemistry, 2003, 2003, 3435-3445.	1.2	39

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73	Mannose-Binding Lectin Augments the Uptake of Lipid A,Staphylococcus aureus, andEscherichia coliby Kupffer Cells through Increased Cell Surface Expression of Scavenger Receptor A. Journal of Immunology, 2006, 177, 5517-5523.	0.4	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. Journal of Immunology, 2006, 177, 8133-8139.	0.4	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. Organic and Biomolecular Chemistry, 2016, 14, 1013-1023.	1.5	39
76	Lanthiopeptin, a new peptide effective against herpes simplex virus: Structural determination and comparison with Ro 09-0198, an immunopotentiating peptide. Tetrahedron Letters, 1988, 29, 4771-4772.	0.7	38
77	Synthesis of New Serine-Linked Oligosaccharides in Blood-Clotting Factors VII and IX and Protein Z.The Syntheses ofO-Î±-D-Xylopyranosyl-(1â†'3)-D-glucopyranose,O-Î±-D-Xylopyranosyl-(1â†'3)-O-Î±-D-xylopyranosyl-(1â†'3)-D-glucopyranose, and Their Conjugates with Serine. Bulletin of the Chemical Society of Japan, 1992, 65, 436-445.	2.0	38
78	Mild but Efficient Methods for Stereoselective Glycosylation with Thioglycosides: Activation by [N-Phenylselenophthalimide-Mg(ClO4)2] and [PhIO-Mg(ClO4)2]. Synlett, 1998, 1998, 84-86.	1.0	38
79	Stereoselective glycosylation using the long-range effect of a [2-(4-phenylbenzyl)oxycarbonyl]benzoyl group. Tetrahedron: Asymmetry, 2005, 16, 441-447.	1.8	38
80	Nucleotide Oligomerization Binding Domain-Like Receptor Signaling Enhances Dendritic Cell-Mediated Cross-Priming In Vivo. Journal of Immunology, 2010, 184, 736-745.	0.4	37
81	Cytotoxic Activity of Ursolic Acid Derivatives Obtained by Isolation and Oxidative Derivatization. Molecules, 2013, 18, 8929-8944.	1.7	37
82	Innate immunomodulation by lipophilic termini of lipopolysaccharide; synthesis of lipid As from Porphyromonas gingivalis and other bacteria and their immunomodulative responses. Molecular BioSystems, 2013, 9, 987.	2.9	37
83	New Efficient Synthesis of a Biosynthetic Precursor of Lipid A. Bulletin of the Chemical Society of Japan, 1997, 70, 1435-1440.	2.0	36
84	Chemical Synthesis of Cyclodextrins by Using Intramolecular Glycosylation. Journal of Organic Chemistry, 2002, 67, 8182-8190.	1.7	36
85	Synthesis of immunoregulatory Helicobacter pylori lipopolysaccharide partial structures. Tetrahedron Letters, 2007, 48, 6577-6581.	0.7	36
86	A Novel Oxidatively Removable Linker and Its Application to Î±-Selective Solid-Phase Oligosaccharide Snythesis on a Macroporous Polystyrene Support. Synlett, 1999, 1999, 1074-1078.	1.0	35
87	Synthesis of Helicobacter pylori lipid A and its analogue using p-(trifluoromethyl)benzyl protecting group. Tetrahedron Letters, 2000, 41, 6843-6847.	0.7	35
88	Reinvestigation of the C5-acetamide sialic acid donor for Î±-selective sialylation: practical procedure under microfluidic conditions. Organic and Biomolecular Chemistry, 2011, 9, 7243.	1.5	35
89	Cross-Tolerization between Nod1 and Nod2 Signaling Results in Reduced Refractoriness to Bacterial Infection in Nod2-Deficient Macrophages. Journal of Immunology, 2008, 181, 4340-4346.	0.4	34
90	Synthesis and immunomodulatory activities of Helicobacter pylori lipophilic terminus of lipopolysaccharide including lipid A. Carbohydrate Research, 2012, 356, 37-43.	1.1	34

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91	Synthesis of endotoxic principle of bacterial lipopolysaccharide and its recognition by the innate immune systems of hosts. Chemical Record, 2006, 6, 333-343.	2.9	33
92	WaaA of the Hyperthermophilic Bacterium Aquifex aeolicus Is a Monofunctional 3-Deoxy-d-manno-oct-2-ulosonic Acid Transferase Involved in Lipopolysaccharide Biosynthesis. Journal of Biological Chemistry, 2009, 284, 22248-22262.	1.6	33
93	Oligosaccharide Synthesis by Affinity Separation Based on Molecular Recognition between Podand Ether and Ammonium Ion. Synlett, 2005, 2005, 2342-2346.	1.0	32
94	A Combined 6Ï€-Azaelectrocyclization/Staudinger Approach to Protein and Cell Engineering: Noninvasive Tumor Targeting by N-Glycan-Engineered Lymphocytes. Journal of Carbohydrate Chemistry, 2010, 29, 118-132.	0.4	32
95	3-Nitro-2-pyridyl glycoside as donor for chemical glycosylation and its application to chemoenzymatic synthesis of oligosaccharide. Tetrahedron Letters, 1999, 40, 6591-6593.	0.7	31
96	New Efficient Route for Solid-Phase Synthesis of Benzimidazole Derivatives. ACS Combinatorial Science, 2002, 4, 475-483.	3.3	31
97	Syntheses and Immunological Evaluation of Selfâ€Adjuvanting Clustered Nâ€Acetyl and Nâ€Propionyl Sialylâ€Tn Combined with a Tâ€helper Cell Epitope as Antitumor Vaccine Candidates. Angewandte Chemie - International Edition, 2018, 57, 8219-8224.	7.2	31
98	Î±â€Emitting cancer therapy using ²¹¹Atâ€AAMT targeting LAT1. Cancer Science, 2021, 112, 1132-1140.	4.1	31
99	Structural basis for endotoxic and antagonistic activities: investigation with novel synthetic lipid A analogs. Journal of Endotoxin Research, 2003, 9, 361-366.	2.5	29
100	The Core Fucose on an IgG Antibody is an Endogenous Ligand of Dectinâ€1. Angewandte Chemie - International Edition, 2019, 58, 18697-18702.	7.2	29
101	A Review on Mechanistic Insight of Plant Derived Anticancer Bioactive Phytocompounds and Their Structure Activity Relationship. Molecules, 2022, 27, 3036.	1.7	29
102	Synthetic Study on Peptide Antibiotic Nisin. I. The Synthesis of Ring A. Bulletin of the Chemical Society of Japan, 1983, 56, 2044-2049.	2.0	28
103	Nitropyridyl glycosides: new glycosyl donors for enzymatic transglycosylation. Tetrahedron Letters, 1999, 40, 6585-6589.	0.7	28
104	TMSCl as a Mild and Effective Source of Acidic Catalysis in Fischer Glycosidation and Use of Propargyl Glycoside for Anomeric Protection. Bioscience, Biotechnology and Biochemistry, 2002, 66, 211-214.	0.6	28
105	Enzymatic Preparation of (S)-3-Hydroxytetradecanoic Acid and Synthesis of Unnatural Analogues of Lipid A Containing the (S)-Acid. Bulletin of the Chemical Society of Japan, 1997, 70, 1441-1450.	2.0	27
106	Physicochemical characterization of carboxymethyl lipid A derivatives in relation to biological activity. FEBS Journal, 2005, 272, 327-340.	2.2	27
107	Electrocyclizationâ€Based Labeling Allows Efficient In Vivo Imaging of Cellular Trafficking. ChemMedChem, 2010, 5, 841-845.	1.6	27
108	Regioselective phosphorylation of myo-inositol with BINOL-derived phosphoramidites and its application for protozoan lysophosphatidylinositol. Organic and Biomolecular Chemistry, 2016, 14, 6672-6675.	1.5	27

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109	Immunological Evaluation of Coâ€Assembling a Lipidated Peptide Antigen and Lipophilic Adjuvants: Selfâ€Adjuvanting Antiâ€Breastâ€Cancer Vaccine Candidates. Angewandte Chemie - International Edition, 2020, 59, 17705-17711.	7.2	27
110	New methodology for high throughput solution-phase synthesis: affinity purification by using crown ether and ammonium ion interaction. Tetrahedron Letters, 1999, 40, 7479-7483.	0.7	26
111	Synthesis of [3H]-Labeled Bioactive Lipid A Analogs and Their Use for Detection of Lipid A-Binding Proteins on Murine Macrophages. Bulletin of the Chemical Society of Japan, 2001, 74, 2189-2197.	2.0	26
112	Recent Advances in Positron Emission Tomography (PET) Imaging of Biomolecules: From Chemical Labeling to Cancer Diagnostics. Mini-Reviews in Organic Chemistry, 2008, 5, 153-162.	0.6	26
113	Widely Applicable Deprotection Method of 2,2,2-Trichloroethoxycarbonyl (Troc) Group Using Tetrabutylammonium Fluoride. Journal of Carbohydrate Chemistry, 2010, 29, 289-298.	0.4	26
114	Nickelï£¿Butadiene Catalytic System for the Crossâ€Coupling of Bromoalkanoic Acids with Alkyl Grignard Reagents: A Practical and Versatile Method for Preparing Fatty Acids. Chemistry - A European Journal, 2013, 19, 2956-2960.	1.7	26
115	Lipopolysaccharide from Gutâ€Associated Lymphoidâ€Tissueâ€Resident Alcaligenes faecalis: Complete Structure Determination and Chemical Synthesis of Its Lipidâ€...A. Angewandte Chemie - International Edition, 2021, 60, 10023-10031.	7.2	26
116	4-Pivaloylaminobenzyl ether, a new temporary protection for hydroxyl functions. Tetrahedron Letters, 1991, 32, 4019-4022.	0.7	25
117	Chemoenzymatic synthesis of Gal(Î²1-3)Gal(Î²1-4)Xyl(Î²)-l-Ser and Gal(Î²1-3)Gal(Î²1-4)Xyl(Î²)-MU by the use of Î²-d-galactosidase. Tetrahedron Letters, 1996, 37, 6763-6766.	0.7	25
118	Propargyloxycarbonyl and propargyl groups for novel protection of amino, hydroxy, and carboxy functions. Tetrahedron Letters, 1999, 40, 1169-1170.	0.7	25
119	Synthesis of lipid A and its analogues for investigation of the structural basis for their bioactivity. Journal of Endotoxin Research, 2005, 11, 341-347.	2.5	25
120	Highly Efficient Sialylation towards Î±(2-3)- and Î±(2-6)-Neu5Ac-Gal Synthesis: Significant â€˜Fixed Dipole Effectâ€™ of N-Phthalyl Group on Î±-Selectivity. Synlett, 2005, 2005, 2958-2962.	1.0	25
121	Failure of mycoplasma lipoprotein MALP-2 to induce NK cell activation through dendritic cell TLR2. Microbes and Infection, 2011, 13, 350-358.	1.0	25
122	Homeostatic and pathogenic roles of <scp>GM</scp> 3 ganglioside molecular species in <scp>TLR</scp> 4 signaling in obesity. EMBO Journal, 2020, 39, e101732.	3.5	25
123	A Review of Cytotoxic Plants of the Indian Subcontinent and a Broad-Spectrum Analysis of Their Bioactive Compounds. Molecules, 2020, 25, 1904.	1.7	25
124	Synthesis and biological activity of a model disaccharide containing a key unit in heparin for binding to platelets. Tetrahedron Letters, 1996, 37, 1053-1056.	0.7	24
125	Synthesis of lipid A monosaccharide analogues containing acidic amino acid: Exploring the structural basis for the endotoxic and antagonistic activities. Bioorganic and Medicinal Chemistry, 2006, 14, 6759-6777.	1.4	24
126	Efficient aldol condensation in aqueous biphasic system under microfluidic conditions. Tetrahedron Letters, 2008, 49, 2010-2012.	0.7	24

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127	Structures, Synthesis, and Human Nod1 Stimulation of Immunostimulatory Bacterial Peptidoglycan Fragments in the Environment. Journal of Natural Products, 2011, 74, 518-525.	1.5	24
128	Peptidoglycan as Nod1 ligand; fragment structures in the environment, chemical synthesis, and their innate immunostimulation. Natural Product Reports, 2012, 29, 568.	5.2	24
129	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.	1.5	24
130	Unveiling Molecular Recognition of Sialoglycans by Human Siglec-10. IScience, 2020, 23, 101231.	1.9	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. Tetrahedron Letters, 1995, 36, 7455-7458.	0.7	23
132	p-Nitrophenyl group for anomeric protection of oligosaccharides, selective oxidative cleavage via p-acetamidophenyl glycosides. Tetrahedron Letters, 1996, 37, 3343-3344.	0.7	23
133	NMR conformational analysis of biosynthetic precursor-type lipid A: monomolecular state and supramolecular assembly. Organic and Biomolecular Chemistry, 2004, 2, 3557.	1.5	23
134	Practical and Efficient Method for Î±-Sialylation with an Azide Sialyl Donor Using a Microreactor. Journal of Carbohydrate Chemistry, 2014, 33, 55-67.	0.4	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 Acetobacter pasteurianus NBRC 3283. Journal of Biological Chemistry, 2016, 291, 21184-21194.	1.6	23
136	Isolated Polar Amino Acid Residues Modulate Lipid Binding in the Large Hydrophobic Cavity of CD1d. ACS Chemical Biology, 2016, 11, 3132-3139.	1.6	23
137	Development of Î±â€Galâ€“Antibody Conjugates to Increase Immune Response by Recruiting Natural Antibodies. Angewandte Chemie - International Edition, 2019, 58, 4526-4530.	7.2	23
138	Enzymatic Synthesis of 4-Methylumbelliferyl Glycosides of Trisaccharide and Core Tetrasaccharide, Gal(Î²1-3)Gal(Î²1-4)Xyl and GlcA(Î²1-3)Gal(Î²1-3)Gal(Î²1-4)Xyl, Corresponding to the Linkage Region of Proteoglycans. Bulletin of the Chemical Society of Japan, 1997, 70, 2719-2725.	2.0	22
139	Novel oxidatively removable protecting groups and linkers for solid-phase synthesis of oligosaccharides. Molecular Diversity, 1997, 2, 182-188.	2.1	22
140	Synthesis of13C-Labeled Biosynthetic Precursor of Lipid A and Its Analogue with Shorter Acyl Chains. Bulletin of the Chemical Society of Japan, 1999, 72, 1857-1867.	2.0	22
141	Libraryâ€directed Solutionâ€and Solidâ€phase Synthesis of 2,4â€Disubstituted Pyridines: Oneâ€pot Approach through 6â€‰Ï€â€Azaelectrocyclization. Chemistry - an Asian Journal, 2009, 4, 1573-1577.	1.7	22
142	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.	1.0	22
143	Discovery of a Novel Scaffold as an Indoleamine 2,3â€Dioxygenaseâ€…1 (IDO1) Inhibitor Based on the Pyrrolopiperazinone Alkaloid, Longamideâ€…B. ChemMedChem, 2016, 11, 2682-2689.	1.6	22
144	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.	0.6	21

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