Yukari Fujimoto

List of Publications by Year
in descending order

115 papers	4,745 citations	126907 33 h-index	102487 66 g-index
129 all docs	129 docs citations	129 times ranked	7573 citing authors

#	Article	IF	Citations
1	A critical role of RICK/RIP2 polyubiquitination in Nod-induced NF-ÎºB activation. EMBO Journal, 2008, 27, 373-383.	7.8	469
2	Autophagic control of listeria through intracellular innate immune recognition in drosophila. Nature Immunology, 2008, 9, 908-916.	14.5	332
3	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.	2.2	282
4	Nod1 acts as an intracellular receptor to stimulate chemokine production and neutrophil recruitment in vivo. Journal of Experimental Medicine, 2006, 203, 203-213.	8.5	199
5	Muramyldipeptide and diaminopimelic acid-containing desmuramylpeptides in combination with chemically synthesized Toll-like receptor agonists synergistically induced production of interleukin-8 in a NOD2- and NOD1-dependent manner, respectively, in human. Cellular Microbiology, 2005, 7, 53-61.	2.1	181
6	Molecular basis for bacterial peptidoglycan recognition by LysM domains. Nature Communications, 2014, 5, 4269.	12.8	167
7	Regulatory Roles for MD-2 and TLR4 in Ligand-Induced Receptor Clustering. Journal of Immunology, 2006, 176, 6211-6218.	0.8	166
8	Nod1/RICK and TLR Signaling Regulate Chemokine and Antimicrobial Innate Immune Responses in Mesothelial Cells. Journal of Immunology, 2007, 179, 514-521.	0.8	165
9	Toll-like Receptors, NOD1, and NOD2 in Oral Epithelial Cells. Journal of Dental Research, 2006, 85, 524-529.	5.2	147
10	Differential Release and Distribution of Nod1 and Nod2 Immunostimulatory Molecules among Bacterial Species and Environments. Journal of Biological Chemistry, 2006, 281, 29054-29063.	3.4	146
11	Human peptidoglycan recognition protein S is an effector of neutrophil-mediated innate immunity. Blood, 2005, 106, 2551-2558.	1.4	124
12	Chemically synthesized pathogen-associated molecular patterns increase the expression of peptidoglycan recognition proteins via toll-like receptors, NOD1 and NOD2 in human oral epithelial cells. Cellular Microbiology, 2005, 7, 675-686.	2.1	113
13	Sarcoidosis and NOD1 variation with impaired recognition of intracellular Propionibacterium acnes. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2006, 1762, 794-801.	3.8	93
14	Nod1 Ligands Induce Site-Specific Vascular Inflammation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 1093-1099.	2.4	82
15	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.	0.8	76
16	Synthesis of peptidoglycan fragments and evaluation of their biological activity. Organic and Biomolecular Chemistry, 2006, 4, 232-242.	2.8	73
17	Chemical Synthesis of Helicobacter pylori Lipopolysaccharide Partial Structures and their Selective Proinflammatory Responses. Chemistry - A European Journal, 2011, 17, 14464-14474.	3.3	71
18	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

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19	Characterization of N-terminal Structure of TLR2-activating Lipoprotein in Staphylococcus aureus. Journal of Biological Chemistry, 2009, 284, 9147-9152.	3.4	60
20	Structural prerequisites for endotoxic activity in the Limulus test as compared to cytokine production in mononuclear cells. Innate Immunity, 2010, 16, 39-47.	2.4	55
21	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
22	A Synthetic Peptidoglycan Fragment as a Competitive Inhibitor of the Melanization Cascade. Journal of Biological Chemistry, 2006, 281, 7747-7755.	3.4	50
23	The Peptide Sequence of Diacyl Lipopeptides Determines Dendritic Cell TLR2-Mediated NK Activation. PLoS ONE, 2010, 5, e12550.	2.5	49
24	A Role of Lipophilic Peptidoglycan-related Molecules in Induction of Nod1-mediated Immune Responses. Journal of Biological Chemistry, 2007, 282, 11757-11764.	3.4	45
25	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.	4.0	45
26	On the Bioactive Conformation of the Rhodopsin Chromophore: Absolute Sense of Twist around the 6-s-cis Bond. Chemistry - A European Journal, 2001, 7, 4198-4204.	3.3	42
27	Solution and Biologically Relevant Conformations of Enantiomeric 11-cis-Locked Cyclopropyl Retinals. Journal of the American Chemical Society, 2002, 124, 7294-7302.	13.7	42
28	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.	2.2	42
29	Evidence of Immunostimulating Lipoprotein Existing in the Natural Lipoteichoic Acid Fraction. Infection and Immunity, 2007, 75, 1926-1932.	2.2	40
30	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.	2.8	39
31	Stereoselective glycosylation using the long-range effect of a [2-(4-phenylbenzyl)oxycarbonyl]benzoyl group. Tetrahedron: Asymmetry, 2005, 16, 441-447.	1.8	38
32	Nucleotide Oligomerization Binding Domain-Like Receptor Signaling Enhances Dendritic Cell-Mediated Cross-Priming In Vivo. Journal of Immunology, 2010, 184, 736-745.	0.8	37
33	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
34	Synthesis of immunoregulatory Helicobacter pylori lipopolysaccharide partial structures. Tetrahedron Letters, 2007, 48, 6577-6581.	1.4	36
35	Conformational Changes during Apoplastocyanin Folding Observed by Photocleavable Modification and Transient Grating. Journal of the American Chemical Society, 2006, 128, 7551-7558.	13.7	34
36	Synthesis and immunomodulatory activities of Helicobacter pylori lipophilic terminus of lipopolysaccharide including lipid A. Carbohydrate Research, 2012, 356, 37-43.	2.3	34

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37	Formal Total Synthesis of <scp>l</scp>-Ossamine via Decarboxylative Functionalization Using Visible-Light-Mediated Photoredox Catalysis in a Flow System. Journal of Organic Chemistry, 2017, 82, 1248-1253.	3.2	33
38	Proline cis/trans-Isomerase Pin1 Regulates Peroxisome Proliferator-activated Receptor Î³ Activity through the Direct Binding to the Activation Function-1 Domain. Journal of Biological Chemistry, 2010, 285, 3126-3132.	3.4	32
39	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.	13.8	31
40	Bisphenol A 3,4-quinone induces the conversion of xanthine dehydrogenase into oxidase in vitro. Food and Chemical Toxicology, 2010, 48, 2217-2222.	3.6	30
41	Multimeric bivalent immunogens from recombinant tetanus toxin HC fragment, synthetic hexasaccharides, and a glycopeptide adjuvant. Glycoconjugate Journal, 2010, 27, 69-77.	2.7	28
42	Regioselective phosphorylation of myo-inositol with BINOL-derived phosphoramidites and its application for protozoan lysophosphatidylinositol. Organic and Biomolecular Chemistry, 2016, 14, 6672-6675.	2.8	27
43	Widely Applicable Deprotection Method of 2,2,2-Trichloroethoxycarbonyl (Troc) Group Using Tetrabutylammonium Fluoride. Journal of Carbohydrate Chemistry, 2010, 29, 289-298.	1.1	26
44	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.	3.3	26
45	Chemical Synthesis of <scp>d</scp>-glycero-<scp>d</scp>-manno-Heptose 1,7-Bisphosphate and Evaluation of Its Ability to Modulate NF-ÎºB Activation. Organic Letters, 2017, 19, 3079-3082.	4.6	26
46	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.	13.8	26
47	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
48	Failure of mycoplasma lipoprotein MALP-2 to induce NK cell activation through dendritic cell TLR2. Microbes and Infection, 2011, 13, 350-358.	1.9	25
49	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.	3.0	24
50	Structures, Synthesis, and Human Nod1 Stimulation of Immunostimulatory Bacterial Peptidoglycan Fragments in the Environment. Journal of Natural Products, 2011, 74, 518-525.	3.0	24
51	Peptidoglycan as Nod1 ligand; fragment structures in the environment, chemical synthesis, and their innate immunostimulation. Natural Product Reports, 2012, 29, 568.	10.3	24
52	Practical and Efficient Method for Î±-Sialylation with an Azide Sialyl Donor Using a Microreactor. Journal of Carbohydrate Chemistry, 2014, 33, 55-67.	1.1	23
53	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.	3.4	23
54	Isolated Polar Amino Acid Residues Modulate Lipid Binding in the Large Hydrophobic Cavity of CD1d. ACS Chemical Biology, 2016, 11, 3132-3139.	3.4	23

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55	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.	3.2	22
56	Separation and characterization of the immunostimulatory components in unpolished rice black vinegar (kurozu). Journal of Bioscience and Bioengineering, 2013, 116, 688-696.	2.2	21
57	Human SAP Is a Novel Peptidoglycan Recognition Protein That Induces Complement-Independent Phagocytosis of Staphylococcus aureus. Journal of Immunology, 2013, 191, 3319-3327.	0.8	21
58	Synthesis of Rubrivivax gelatinosus Lipid A and Analogues for Investigation of the Structural Basis for Immunostimulating and Inhibitory Activities. Bulletin of the Chemical Society of Japan, 2008, 81, 796-819.	3.2	20
59	Lipopeptides from Staphylococcus aureus as Tlr2 Ligands: Prediction with mRNA Expression, Chemical Synthesis, and Immunostimulatory Activities. ChemBioChem, 2009, 10, 2311-2315.	2.6	20
60	Glycan Sequenceâ€Dependent Nod2 Activation Investigated by Using a Chemically Synthesized Bacterial Peptidoglycan Fragment Library. ChemBioChem, 2013, 14, 482-488.	2.6	20
61	IEIIS Meeting minireview: Chemical synthesis of peptidoglycan fragments for elucidation of the immunostimulating mechanism. Journal of Endotoxin Research, 2007, 13, 189-196.	2.5	19
62	Synthesis of crosslinked peptidoglycan fragments for investigation of their immunobiological functions. Tetrahedron Letters, 2009, 50, 3631-3634.	1.4	18
63	Characterization of Natural Human Nucleotide-binding Oligomerization Domain Protein 1 (Nod1) Ligands from Bacterial Culture Supernatant for Elucidation of Immune Modulators in the Environment. Journal of Biological Chemistry, 2010, 285, 23607-23613.	3.4	18
64	Potent Th2 Cytokine Bias of Natural Killer T Cell by CD1d Glycolipid Ligands: Anchoring Effect of Polar Groups in the Lipid Component. Angewandte Chemie - International Edition, 2018, 57, 9655-9659.	13.8	17
65	Visible-light-mediated decarboxylative benzoyloxylation of Î²-hydroxy amino acids and its application to synthesis of functional 1,2-amino alcohol derivatives. Tetrahedron Letters, 2015, 56, 5787-5790.	1.4	15
66	Employing BINOLâ€Phosphoroselenoyl Chloride for Selective Inositol Phosphorylation and Synthesis of Glycosyl Inositol Phospholipid from Entamoeba histolytica. Chemistry - A European Journal, 2017, 23, 8304-8308.	3.3	15
67	Highly Î²-Selective Mannosylation towards ManÎ²1-4GlcNAc Synthesis: TMSB(C6F5)4as a Lewis Acid/Cation Trap Catalyst. Synlett, 2005, 2005, 2325-2328.	1.8	13
68	Synthesis and bioactivity of fluorescence- and biotin-labeled lipid A analogues for investigation of recognition mechanism in innate immunity. Tetrahedron Letters, 2006, 47, 539-543.	1.4	13
69	Synthesis of glycerolipids containing simple linear acyl chains or aromatic rings and evaluation of their Mincle signaling activity. Chemical Communications, 2019, 55, 711-714.	4.1	13
70	Structure-activity relationship studies of Bz amide-containing Î±-GalCer derivatives as natural killer T cell modulators. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 970-973.	2.2	13
71	Synthesis and biological activity of phosphoglycolipids from Thermus thermophilus. Organic and Biomolecular Chemistry, 2013, 11, 5034.	2.8	12
72	A Comprehensive Study of the Interaction between Peptidoglycan Fragments and the Extracellular Domain of Mycobacterium tuberculosis Ser/Thr Kinase PknB. ChemBioChem, 2017, 18, 2094-2098.	2.6	12

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73	Efficient Synthesis of (â€“)-Hanishin, (â€“)-Longamide B, and (â€“)-Longamide B Methyl Ester through Piperazinone Formation from 1,2-Cyclic Sulfamidates. Synlett, 2016, 27, 616-620.	1.8	11
74	Synthesis of Peptidoglycan Fragments from Enterococcus faecalis with Fmocâ€Strategy for Glycan Elongation. Chemistry - an Asian Journal, 2017, 12, 27-30.	3.3	11
75	The key entity of a DCAR agonist, phosphatidylinositol mannoside Ac₁PIM₁: its synthesis and immunomodulatory function. Organic and Biomolecular Chemistry, 2020, 18, 3659-3663.	2.8	11
76	Design and Discovery of Covalent Î±-GalCer Derivatives as Potent CD1d Ligands. ACS Chemical Biology, 2020, 15, 353-359.	3.4	11
77	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
78	Synthesis of 11-cis-locked bicyclo[5.1.0]octanyl retinal and an enantioselective binding to bovine opsin. Chirality, 2002, 14, 340-346.	2.6	10
79	Stereoselective Glycosylation of 3-Deoxy-d-manno-2-octulosonic Acid with Batch and Microfluidic Methods. Synlett, 2011, 2011, 2359-2362.	1.8	10
80	Site-specific effect of polar functional group-modification in lipids of TLR2 ligands for modulating the ligand immunostimulatory activity. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 1638-1641.	2.2	10
81	Physical properties of new phenylpyrimidine type ferroelectric liquid crystals. Ferroelectrics, 1993, 148, 203-212.	0.6	9
82	Peptidoglycan microarray as a novel tool to explore proteinâ€“ligand recognition. Biopolymers, 2016, 106, 422-429.	2.4	8
83	The second and third amino acids of Pam2 lipopeptides are key for the proliferation of cytotoxic T cells. Innate Immunity, 2018, 24, 323-331.	2.4	8
84	Polar functional group-containing glycolipid CD1d ligands modulate cytokine-biasing responses and prevent experimental colitis. Scientific Reports, 2020, 10, 15766.	3.3	8
85	Syntheses and physical properties of new biphenyl and phenylpyrimidine type ferroelectric liquid crystals. Ferroelectrics, 1993, 148, 169-178.	0.6	7
86	Synthetic analogs of an Entamoeba histolytica glycolipid designed to combat intracellular Leishmania infection. Scientific Reports, 2017, 7, 9472.	3.3	7
87	Alkyne-Tagged Dopamines as Versatile Analogue Probes for Dopaminergic System Analysis. Analytical Chemistry, 2021, 93, 9345-9355.	6.5	7
88	Lipopolysaccharide Derived From the Lymphoid-Resident Commensal Bacteria Alcaligenes faecalis Functions as an Effective Nasal Adjuvant to Augment IgA Antibody and Th17 Cell Responses. Frontiers in Immunology, 2021, 12, 699349.	4.8	7
89	Self and Nonself Recognition with Bacterial and Animal Glycans, Surveys by Synthetic Chemistry. Methods in Enzymology, 2010, 478, 323-342.	1.0	6
90	Total Synthesis of Cardiolipins Containing Chiral Cyclopropane Fatty Acids. Journal of Organic Chemistry, 2017, 82, 7832-7838.	3.2	6

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91	Time-lapse monitoring of TLR2 ligand internalization with newly developed fluorescent probes. Organic and Biomolecular Chemistry, 2018, 16, 3824-3830.	2.8	5
92	Syntheses and Immunological Evaluation of Selfâ€Adjuvanting Clustered N â€Acetyl and N â€Propionyl Sialylâ€Tn Combined with a Tâ€helper Cell Epitope as Antitumor Vaccine Candidates. Angewandte Chemie, 2018, 130, 8351-8356.	2.0	5
93	One Step and Convenient Preparations of 4-Hydroxyretinal and 4-Oxoretinal. Synthetic Communications, 1999, 29, 3793-3797.	2.1	4
94	Inhibition of lipid A-mediated type I interferon induction by Bactericidal/permeability-increasing protein (BPI). Biochemical and Biophysical Research Communications, 2007, 354, 574-578.	2.1	4
95	Funiculosin variants and phosphorylated derivatives promote innate immune responses via the Toll-like receptor 4/myeloid differentiation factor-2 complex. Journal of Biological Chemistry, 2017, 292, 15378-15394.	3.4	4
96	Convergent Synthesis of Digalactosyl Diacylglycerols. Organic Letters, 2017, 19, 6482-6485.	4.6	4
97	Synthesis of Cyclopropane Fatty Acids by C(sp³)â^'C(sp³) Crossâ€Coupling Reaction and Formal Synthesis of Î±â€Mycolic Acid. Advanced Synthesis and Catalysis, 2018, 360, 3810-3817.	4.3	4
98	Combinatorial Methods in Oligosaccharide Synthesis. , 2008, , 1205-1240.		3
99	Solid-phase Synthesis of Bacterial Cell Wall Peptidoglycan Fragments. Chemistry Letters, 2014, 43, 1461-1463.	1.3	3
100	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
101	Physical properties of novel biphenyl and phenylpyrimidine type ferroelectric liquid crystals. Ferroelectrics, 1993, 148, 213-222.	0.6	2
102	Chemical synthesis of bacterial lipid A. , 2010, , 413-427.		2
103	Potent Th2 Cytokine Bias of Natural Killer T Cell by CD1d Glycolipid Ligands: Anchoring Effect of Polar Groups in the Lipid Component. Angewandte Chemie, 2018, 130, 9803-9807.	2.0	2
104	Total synthesis of naturally occurring chiral cyclopropane fatty acids and related compounds. Tetrahedron Letters, 2019, 60, 1083-1090.	1.4	2
105	Synthetic Studies on FNC-RED and Its Analogues Containing an All syn-Cyclopentanetetrol Moiety. Journal of Organic Chemistry, 2019, 84, 12680-12685.	3.2	1
106	Lipopolysaccharide from Gutâ€Associated Lymphoidâ€Tissueâ€Resident Alcaligenes faecalis: Complete Structure Determination and Chemical Synthesis of Its Lipidâ€…A. Angewandte Chemie, 2021, 133, 10111-10119.	2.0	1
107	Microbial Glycoconjugates Recognition with TLRs and NLRs in Innate Immunity. , 2015, , 685-690.		1
108	Synthesis and Functional Analysis of the Key Compounds Responsible for Signal Transduction. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2007, 65, 1170-1178.	0.1	1

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109	Fungal Î²â€Mannosyloxymannitol Glycolipids and Their Analogues: Synthesis and Mincleâ€Mediated Signaling Activity. European Journal of Organic Chemistry, 2022, 2022, .	2.4	1
110	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
111	Human serum amyloid P component is a novel peptidoglycan recognition protein inducing complement-independent phagocytosis of Staphylococcus aureus. Molecular Immunology, 2013, 56, 301.	2.2	0
112	Efficient preparation of human and mouse CD1d proteins using silkworm baculovirus expression system. Protein Expression and Purification, 2020, 172, 105631.	1.3	0
113	Nod1 acts as an intracellular receptor to stimulate chemokine production and neutrophil recruitment in vivo. Journal of Cell Biology, 2006, 172, iX-iX.	5.2	0
114	Microbial Glycoconjugates Recognition with TLRs and NLRs in Innate Immunity. , 2014, , 1-6.		0
115	Efficient Synthesis of Oligosaccharides and Synthesis of Pathogen-Associated Molecular Patterns for Their Biofunctional Studies. , 2008, , 200-205.		0