

# Masashi Ohmae

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,291  
citations

361413

20  
h-index

377865

34  
g-index

58  
all docs

58  
docs citations

58  
times ranked

755  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemoenzymatic Synthesis of Sialyl Sulfo-Oligosaccharides as Potent Siglec-8 Ligands via Transglycosylation Catalyzed by Keratanase II. <i>Biomacromolecules</i> , 2022, 23, 316-325.	5.4	5
2	Keratan Sulfate, a "Unique" Sulfo-Sugar: Structures, Functions, and Synthesis. <i>Trends in Glycoscience and Glycotechnology</i> , 2019, 31, E129-E136.	0.1	6
3	Keratan Sulfate, a "Unique" Sulfo-Sugar: Structures, Functions, and Synthesis. <i>Trends in Glycoscience and Glycotechnology</i> , 2019, 31, J127-J133.	0.1	0
4	Reaction specificity of keratanase II in the transglycosylation using the sugar oxazolines having keratan sulfate repeating units. <i>Carbohydrate Research</i> , 2018, 456, 61-68.	2.3	7
5	Immune responses against Lewis Y tumor-associated carbohydrate antigen displayed densely on self-assembling nanocarriers. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 8095-8105.	2.8	2
6	Immune activation with peptide assemblies carrying Lewis y tumor-associated carbohydrate antigen. <i>Journal of Peptide Science</i> , 2017, 23, 189-197.	1.4	6
7	Reduced immune response to polymeric micelles coating sialic acids. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 4976-4982.	2.2	16
8	A Novel Chemoenzymatic Synthesis of Sulfated Type...2 Tumor-associated Carbohydrate Antigens by Transglycosylation of Sulfated Lewis X Oxazoline Catalyzed by Keratanase...II. <i>ChemBioChem</i> , 2016, 17, 1879-1886.	2.6	6
9	Synthesis of type 2 Lewis antigens via novel regioselective glycosylation of an orthogonally protected lactosamine diol derivative. <i>Carbohydrate Research</i> , 2016, 422, 34-44.	2.3	9
10	Enzymatic polymerization to an alternating N-l-cysteinyl chitin derivative: a novel class of multivalent glycopeptidomimetics. <i>Carbohydrate Research</i> , 2013, 377, 28-34.	2.3	6
11	Development of Novel Inhibitors Specific for Human Heparanase-1. <i>Chemistry Letters</i> , 2013, 42, 797-798.	1.3	1
12	Synthesis of a Heparan Sulfate Disaccharide Fluoride for Detection of Heparanase Activity. <i>Chemistry Letters</i> , 2013, 42, 1168-1169.	1.3	2
13	Entanglement network of chitin and chitosan in ionic liquid solutions. <i>Journal of Applied Polymer Science</i> , 2013, 130, 2439-2443.	2.6	23
14	Enzymatic Polymerization to Cellulose by Crosslinked Enzyme Immobilized on Gold Solid Surface. <i>Chemistry Letters</i> , 2012, 41, 37-38.	1.3	3
15	Preparation of fibrous cellulose by enzymatic polymerization using cross-linked mutant endoglucanase II. <i>Chemical Communications</i> , 2011, 47, 10127.	4.1	7
16	Rapid Access to an Orthogonally Protected Lewis X Derivative: An Important Building Block for Synthesis of Lewis Antigens. <i>Chemistry Letters</i> , 2011, 40, 438-439.	1.3	6
17	Enzymatic Polymerization to an Alternating N-Phthaloyl Chitin Derivative Catalyzed by Chitinase. <i>Chemistry Letters</i> , 2011, 40, 194-195.	1.3	5
18	Immobilization of His-tagged Endoglucanase on Gold via Various Ni-NTA Self-assembled Monolayers and Its Hydrolytic Activity. <i>Macromolecular Bioscience</i> , 2010, 10, 1265-1272.	4.1	13

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19	Linker Effects on Monolayer Formation and Long-Range Electron Transfer in Helical Peptide Monolayers. <i>Journal of Physical Chemistry B</i> , 2009, 113, 6256-6266.	2.6	44
20	Enzymatic activities of novel mutant endoglucanases carrying sequential active sites. <i>International Journal of Biological Macromolecules</i> , 2008, 43, 226-231.	7.5	13
21	Chitinase-Catalyzed Synthesis of an AlternatinglyN-Sulfonated Chitin Derivative. <i>Biomacromolecules</i> , 2007, 8, 188-195.	5.4	21
22	Hyaluronidase-Catalyzed Copolymerization for the Single-Step Synthesis of Functionalized Hyaluronan Derivatives. <i>Biomacromolecules</i> , 2007, 8, 1327-1332.	5.4	17
23	Enzymatic Copolymerization to Hybrid Glycosaminoglycans: A Novel Strategy for Intramolecular Hybridization of Polysaccharides. <i>Biomacromolecules</i> , 2007, 8, 1802-1806.	5.4	20
24	Keratanase II-Catalyzed Synthesis of Keratan Sulfate Oligomers by Using Sugar Oxazolines as Transition-State Analogue Substrate Monomers: A Novel Insight into the Enzymatic Catalysis Mechanism. <i>ChemBioChem</i> , 2007, 8, 1710-1720.	2.6	25
25	Enzymatic Polymerization to Unnatural Hybrid Polysaccharides. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 1447-1457.	2.2	17
26	Chitinase-Catalyzed Synthesis of AlternatinglyN-Deacetylated Chitin: A Chitin-Chitosan Hybrid Polysaccharide. <i>Biomacromolecules</i> , 2006, 7, 950-957.	5.4	56
27	Enzymatic Polymerization to Novel Polysaccharides Having a Glucose-N-acetylglucosamine Repeating Unit, a Cellulose-Chitin Hybrid Polysaccharide. <i>Biomacromolecules</i> , 2006, 7, 1644-1656.	5.4	64
28	Chemical Reaction at Specific Sites and Reaction-Induced Self-Assembly as Observed by in Situ and Real Time SANS: Enzymatic Polymerization to Synthetic Cellulose. <i>Biomacromolecules</i> , 2006, 7, 2479-2482.	5.4	17
29	Effect of Fluorine Substituent on the Chitinase-catalyzed Polymerization of Sugar Oxazoline Derivatives. <i>Chemistry Letters</i> , 2006, 35, 160-161.	1.3	13
30	Enzyme-catalyzed synthesis of natural and unnatural polysaccharides. <i>Journal of Polymer Science Part A</i> , 2006, 44, 5014-5027.	2.3	29
31	Chitinase-Catalyzed Copolymerization to a Chitin Derivative Having Glucosamine Unit in Controlled Proportion. <i>Polymer Journal</i> , 2006, 38, 1182-1188.	2.7	18
32	Small-angle neutron scattering studies of chemical reaction and reaction-induced self-assembly. <i>Physica B: Condensed Matter</i> , 2006, 385-386, 814-817.	2.7	3
33	A Hyaluronidase Supercatalyst for the Enzymatic Polymerization to Synthesize Glycosaminoglycans. <i>Chemistry - A European Journal</i> , 2006, 12, 5962-5971.	3.3	43
34	Synthesis of Fluorinated Chitin Derivatives via Enzymatic Polymerization. <i>Macromolecular Bioscience</i> , 2006, 6, 862-872.	4.1	31
35	Chitinase-Catalyzed Synthesis of a Chitin-Xylan Hybrid Polymer: A Novel Water-Soluble Polysaccharide Having anN-Acetylglucosamine-Xylose Repeating Unit. <i>Macromolecular Rapid Communications</i> , 2006, 27, 781-786.	3.9	21
36	Enzymatic Precision Polymerization for Synthesis of Glycosaminoglycans and Their Derivatives. <i>Macromolecular Symposia</i> , 2005, 226, 147-156.	0.7	25

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37	Enzymatic Polymerization Behavior Using Cellulose-Binding Domain Deficient Endoglucanase II. <i>Macromolecular Bioscience</i> , 2005, 5, 623-628.	4.1	23
38	Bottom-Up Synthesis of Hyaluronan and Its Derivatives via Enzymatic Polymerization: A Direct Incorporation of an Amido Functional Group. <i>Biomacromolecules</i> , 2005, 6, 1068-1084.	5.4	30
39	Enzymatic Synthesis of Chondroitin 4-Sulfate with Well-Defined Structure. <i>Biomacromolecules</i> , 2005, 6, 2935-2942.	5.4	57
40	Enzymatic Polymerization: In Vitro Synthesis of Glycosaminoglycans and Their Derivatives. <i>ACS Symposium Series</i> , 2005, , 217-231.	0.5	2
41	Enzymatic glycosidation of sugar oxazolines having a carboxylate group catalyzed by chitinase. <i>Carbohydrate Research</i> , 2004, 339, 2769-2788.	2.3	31
42	Rapid Oligosaccharide Synthesis Using a Fluorous Protective Group. <i>Journal of Organic Chemistry</i> , 2004, 69, 5348-5353.	3.2	52
43	Enzymatic Synthesis of Alternatingly 6-O-Carboxymethylated Chitotetraose by Selective Glycosidation with Chitinase Catalysis. <i>Chemistry Letters</i> , 2004, 33, 694-695.	1.3	16
44	Synthesis of glycosaminoglycans via enzymatic polymerization. <i>Journal of Polymer Science Part A</i> , 2003, 41, 3541-3548.	2.3	7
45	Enzymatic Synthesis of Chondroitin and Its Derivatives Catalyzed by Hyaluronidase. <i>Journal of the American Chemical Society</i> , 2003, 125, 14357-14369.	13.7	95
46	Enzymatic polymerization to artificial hyaluronic acid using a transition state analogue monomer. <i>Macromolecular Symposia</i> , 2002, 183, 127-132.	0.7	6
47	Enzymatic Polymerization to Artificial Hyaluronan: A Novel Method to Synthesize a Glycosaminoglycan Using a Transition State Analogue Monomer. <i>Journal of the American Chemical Society</i> , 2001, 123, 11825-11826.	13.7	68
48	Fluorous Oligosaccharide Synthesis Using a Novel Fluorous Protective Group. <i>Organic Letters</i> , 2001, 3, 3947-3950.	4.6	91
49	Enzymatic Polymerization for Precision Polymer Synthesis. <i>Bulletin of the Chemical Society of Japan</i> , 2001, 74, 613-635.	3.2	141
50	Enzymatic Polymerization to Polysaccharides. , 0, , 159-210.		60