Masashi Ohmae

List of Publications by Year
in descending order

50	1,291	361413	377865
papers	citations	20 h-index	34 g-index

58	58	58	755
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enzymatic Polymerization for Precision Polymer Synthesis. Bulletin of the Chemical Society of Japan, 2001, 74, 613-635.	3.2	141
2	Enzymatic Synthesis of Chondroitin and Its Derivatives Catalyzed by Hyaluronidase. Journal of the American Chemical Society, 2003, 125, 14357-14369.	13.7	95
3	Fluorous Oligosaccharide Synthesis Using a Novel Fluorous Protective Group. Organic Letters, 2001, 3, 3947-3950.	4.6	91
4	Enzymatic Polymerization to Artificial Hyaluronan:Â A Novel Method to Synthesize a Glycosaminoglycan Using a Transition State Analogue Monomer. Journal of the American Chemical Society, 2001, 123, 11825-11826.	13.7	68
5	Enzymatic Polymerization to Novel Polysaccharides Having a Glucose-N-acetylglucosamine Repeating Unit, a Celluloseâ^'Chitin Hybrid Polysaccharide. Biomacromolecules, 2006, 7, 1644-1656.	5.4	64
6	Enzymatic Polymerization to Polysaccharides. , 0, , 159-210.		60
7	Enzymatic Synthesis of Chondroitin 4-Sulfate with Well-Defined Structure. Biomacromolecules, 2005, 6, 2935-2942.	5.4	57
8	Chitinase-Catalyzed Synthesis of AlternatinglyN-Deacetylated Chitin:Â A Chitinâ^'Chitosan Hybrid Polysaccharide. Biomacromolecules, 2006, 7, 950-957.	5.4	56
9	Rapid Oligosaccharide Synthesis Using a Fluorous Protective Group. Journal of Organic Chemistry, 2004, 69, 5348-5353.	3.2	52
10	Linker Effects on Monolayer Formation and Long-Range Electron Transfer in Helical Peptide Monolayers. Journal of Physical Chemistry B, 2009, 113, 6256-6266.	2.6	44
11	A Hyaluronidase Supercatalyst for the Enzymatic Polymerization to Synthesize Glycosaminoglycans. Chemistry - A European Journal, 2006, 12, 5962-5971.	3.3	43
12	Enzymatic glycosidation of sugar oxazolines having a carboxylate group catalyzed by chitinase. Carbohydrate Research, 2004, 339, 2769-2788.	2.3	31
13	Synthesis of Fluorinated Chitin Derivatives via Enzymatic Polymerization. Macromolecular Bioscience, 2006, 6, 862-872.	4.1	31
14	Bottom-Up Synthesis of Hyaluronan and Its Derivatives via Enzymatic Polymerization:Â Direct Incorporation of an Amido Functional Group. Biomacromolecules, 2005, 6, 1068-1084.	5.4	30
15	Enzyme-catalyzed synthesis of natural and unnatural polysaccharides. Journal of Polymer Science Part A, 2006, 44, 5014-5027.	2.3	29
16	Enzymatic Precision Polymerization for Synthesis of Glycosaminoglycans and Their Derivatives. Macromolecular Symposia, 2005, 226, 147-156.	0.7	25
17	Keratanase IIâ€Catalyzed Synthesis of Keratan Sulfate Oligomers by Using Sugar Oxazolines as Transitionâ€State Analogue Substrate Monomers: A Novel Insight into the Enzymatic Catalysis Mechanism. ChemBioChem, 2007, 8, 1710-1720.	2.6	25
18	Enzymatic Polymerization Behavior Using Cellulose-Binding Domain Deficient Endoglucanase II. Macromolecular Bioscience, 2005, 5, 623-628.	4.1	23

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19	Entanglement network of chitin and chitosan in ionic liquid solutions. Journal of Applied Polymer Science, 2013, 130, 2439-2443.	2.6	23
20	Chitinase-Catalyzed Synthesis of a Chitin-Xylan Hybrid Polymer: A Novel Water-SolubleÎ²(1â€‰â†’â€‰4) Polysaccharide Having anN-Acetylglucosamine-Xylose Repeating Unit. Macromolecular Rapid Communications, 2006, 27, 781-786.	3.9	21
21	Chitinase-Catalyzed Synthesis of an AlternatinglyN-Sulfonated Chitin Derivative. Biomacromolecules, 2007, 8, 188-195.	5.4	21
22	Enzymatic Copolymerization to Hybrid Glycosaminoglycans:Â A Novel Strategy for Intramolecular Hybridization of Polysaccharides. Biomacromolecules, 2007, 8, 1802-1806.	5.4	20
23	Chitinase-Catalyzed Copolymerization to a Chitin Derivative Having Glucosamine Unit in Controlled Proportion. Polymer Journal, 2006, 38, 1182-1188.	2.7	18
24	Chemical Reaction at Specific Sites and Reaction-Induced Self-Assembly as Observed by in Situ and Real Time SANS:Â Enzymatic Polymerization to Synthetic Cellulose. Biomacromolecules, 2006, 7, 2479-2482.	5.4	17
25	Hyaluronidase-Catalyzed Copolymerization for the Single-Step Synthesis of Functionalized Hyaluronan Derivatives. Biomacromolecules, 2007, 8, 1327-1332.	5.4	17
26	Enzymatic Polymerization to Unnatural Hybrid Polysaccharides. Macromolecular Chemistry and Physics, 2007, 208, 1447-1457.	2.2	17
27	Enzymatic Synthesis of Alternatingly 6-O-Carboxymethylated Chitotetraose by Selective Glycosidation with Chitinase Catalysis. Chemistry Letters, 2004, 33, 694-695.	1.3	16
28	Reduced immune response to polymeric micelles coating sialic acids. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 4976-4982.	2.2	16
29	Effect of Fluorine Substituent on the Chitinase-catalyzed Polymerization of Sugar Oxazoline Derivatives. Chemistry Letters, 2006, 35, 160-161.	1.3	13
30	Enzymatic activities of novel mutant endoglucanases carrying sequential active sites. International Journal of Biological Macromolecules, 2008, 43, 226-231.	7.5	13
31	Immobilization of Hisâ€Tagged Endoglucanase on Gold via Various Niâ€NTA Selfâ€Assembled Monolayers and Its Hydrolytic Activity. Macromolecular Bioscience, 2010, 10, 1265-1272.	4.1	13
32	Synthesis of type 2 Lewis antigens via novel regioselective glycosylation of an orthogonally protected lactosamine diol derivative. Carbohydrate Research, 2016, 422, 34-44.	2.3	9
33	Synthesis of glycosaminoglycans via enzymatic polymerization. Journal of Polymer Science Part A, 2003, 41, 3541-3548.	2.3	7
34	Preparation of fibrous cellulose by enzymatic polymerization using cross-linked mutant endoglucanase II. Chemical Communications, 2011, 47, 10127.	4.1	7
35	Reaction specificity of keratanase II in the transglycosylation using the sugar oxazolines having keratan sulfate repeating units. Carbohydrate Research, 2018, 456, 61-68.	2.3	7
36	Enzymatic polymerization to artificial hyaluronic acid using a transition state analogue monomer. Macromolecular Symposia, 2002, 183, 127-132.	0.7	6

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37	Rapid Access to an Orthogonally Protected Lewis X Derivative: An Important Building Block for Synthesis of Lewis Antigens. Chemistry Letters, 2011, 40, 438-439.	1.3	6
38	Enzymatic polymerization to an alternating N-l-cysteinyl chitin derivative: a novel class of multivalent glycopeptidomimetics. Carbohydrate Research, 2013, 377, 28-34.	2.3	6
39	A Novel Chemoenzymatic Synthesis of Sulfated Typeâ€…2 Tumorâ€Associated Carbohydrate Antigens by Transglycosylation of Sulfated Lewis X Oxazoline Catalyzed by Keratanaseâ€…II. ChemBioChem, 2016, 17, 1879-1886.	2.6	6
40	Immune activation with peptide assemblies carrying Lewis y tumorâ€associated carbohydrate antigen. Journal of Peptide Science, 2017, 23, 189-197.	1.4	6
41	Keratan Sulfate, a â€œUniqueâ€•Sulfo-Sugar: Structures, Functions, and Synthesis. Trends in Glycoscience and Glycotechnology, 2019, 31, E129-E136.	0.1	6
42	Enzymatic Polymerization to an Alternating N-Phthaloyl Chitin Derivative Catalyzed by Chitinase. Chemistry Letters, 2011, 40, 194-195.	1.3	5
43	Chemoenzymatic Synthesis of Sialyl Sulfo-Oligosaccharides as Potent Siglec-8 Ligands via Transglycosylation Catalyzed by Keratanase II. Biomacromolecules, 2022, 23, 316-325.	5.4	5
44	Small-angle neutron scattering studies of chemical reaction and reaction-induced self-assembly. Physica B: Condensed Matter, 2006, 385-386, 814-817.	2.7	3
45	Enzymatic Polymerization to Cellulose by Crosslinked Enzyme Immobilized on Gold Solid Surface. Chemistry Letters, 2012, 41, 37-38.	1.3	3
46	Enzymatic Polymerization: In Vitro Synthesis of Glycosaminoglycans and Their Derivatives. ACS Symposium Series, 2005, , 217-231.	0.5	2
47	Synthesis of a Heparan Sulfate Disaccharide Fluoride for Detection of Heparanase Activity. Chemistry Letters, 2013, 42, 1168-1169.	1.3	2
48	Immune responses against Lewis Y tumor-associated carbohydrate antigen displayed densely on self-assembling nanocarriers. Organic and Biomolecular Chemistry, 2018, 16, 8095-8105.	2.8	2
49	Development of Novel Inhibitors Specific for Human Heparanase-1. Chemistry Letters, 2013, 42, 797-798.	1.3	1
50	Keratan Sulfate, a â€œUniqueâ€•Sulfo-Sugar: Structures, Functions, and Synthesis. Trends in Glycoscience and Glycotechnology, 2019, 31, J127-J133.	0.1	0