

Shin-Ichiro Shoda

List of Publications by Year in descending order

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2,955
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257450

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84
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84
docs citations

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times ranked

2157
citing authors

#	ARTICLE	IF	CITATIONS
1	Enzymes as Green Catalysts for Precision Macromolecular Synthesis. <i>Chemical Reviews</i> , 2016, 116, 2307-2413.	47.7	401
2	AN EFFICIENT METHOD FOR GLUCOSYLATION OF HYDROXY COMPOUNDS USING GLUCOPYRANOSYL FLUORIDE. <i>Chemistry Letters</i> , 1981, 10, 431-432.	1.3	365
3	Synthesis of Artificial Chitin: Irreversible Catalytic Behavior of a Glycosyl Hydrolase through a Transition State Analogue Substrate. <i>Journal of the American Chemical Society</i> , 1996, 118, 13113-13114.	13.7	212
4	One-step conversion of unprotected sugars to $\hat{1}^2$ -glycosyl azides using 2-chloroimidazolium salt in aqueous solution. <i>Chemical Communications</i> , 2009, , 3378.	4.1	173
5	Efficient Synthesis of Sugar Oxazolines from Unprotected <i>N</i> -Acetyl-2-amino Sugars by Using Chloroformamidinium Reagent in Water. <i>Journal of Organic Chemistry</i> , 2009, 74, 2210-2212.	3.2	165
6	A novel disaccharide substrate having 1,2-oxazoline moiety for detection of transglycosylating activity of endoglycosidases. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2001, 1528, 9-14.	2.4	112
7	Efficient transfer of sialo-oligosaccharide onto proteins by combined use of a glycosynthase-like mutant of <i>Mucor hiemalis</i> endoglycosidase and synthetic sialo-complex-type sugar oxazoline. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2010, 1800, 1203-1209.	2.4	87
8	Glycoengineered Monoclonal Antibodies with Homogeneous Glycan (M3, G0, G2, and A2) Using a Chemoenzymatic Approach Have Different Affinities for Fc γ 3RIIIa and Variable Antibody-Dependent Cellular Cytotoxicity Activities. <i>PLoS ONE</i> , 2015, 10, e0132848.	2.5	83
9	AN EFFICIENT GLUCOSYLATION OF ALCOHOL USING 1-THIOGLUCOSIDE DERIVATIVE. <i>Chemistry Letters</i> , 1979, 8, 487-490.	1.3	80
10	Direct synthesis of 1,6-anhydro sugars from unprotected glycopyranoses by using 2-chloro-1,3-dimethylimidazolium chloride. <i>Tetrahedron Letters</i> , 2009, 50, 2154-2157.	1.4	80
11	$\hat{1}^2$ -N-Acetylgalactosaminidase from Infant-associated Bifidobacteria Belonging to Novel Glycoside Hydrolase Family 129 Is Implicated in Alternative Mucin Degradation Pathway. <i>Journal of Biological Chemistry</i> , 2012, 287, 693-700.	3.4	79
12	A Practical One-Step Synthesis of 1,2-Oxazoline Derivatives from Unprotected Sugars and Its Application to Chemoenzymatic $\hat{1}^2$ -N-Acetylglucosaminidation of Disialo-oligosaccharide. <i>Helvetica Chimica Acta</i> , 2012, 95, 1928-1936.	1.6	64
13	Green Process in Glycototechnology. <i>Bulletin of the Chemical Society of Japan</i> , 2003, 76, 1-13.	3.2	63
14	Direct Transformation of Unprotected Sugars to Aryl 1-Thio- $\hat{1}^2$ -glycosides in Aqueous Media Using 2-Chloro-1,3-dimethylimidazolium Chloride. <i>Chemistry Letters</i> , 2009, 38, 458-459.	1.3	63
15	A novel method for synthesis of chitobiose via enzymatic glycosylation using a sugar oxazoline as glycosyl donor. <i>Tetrahedron Letters</i> , 1997, 38, 2111-2112.	1.4	56
16	Title is missing!. <i>Cellulose</i> , 1997, 4, 161-172.	4.9	53
17	Direct Dehydrative Pyridylthio-Glycosidation of Unprotected Sugars in Aqueous Media Using 2-Chloro-1,3-dimethylimidazolium Chloride as a Condensing Agent. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1876-1885.	3.3	47
18	Direct visualization of synthetic cellulose formation via enzymatic polymerization using transmission electron microscopy. <i>Macromolecular Chemistry and Physics</i> , 1994, 195, 1319-1326.	2.2	43

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19	Efficient Method for the Elongation of the N-Acetylglucosamine Unit by Combined Use of Chitinase and -Galactosidase. <i>Helvetica Chimica Acta</i> , 2002, 85, 3919-3936.	1.6	42
20	Enzymatic polymerization: The first in vitro synthesis of cellulose via nonbiosynthetic path catalyzed by cellulase. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1992, 54-55, 509-518.	0.6	40
21	Synthesis and surfactant property of copolymers having a poly(2-oxazoline) graft chain. <i>Journal of Polymer Science Part A</i> , 1992, 30, 1489-1494.	2.3	37
22	A novel glycosyl donor for chemo-enzymatic oligosaccharide synthesis: 4,6-dimethoxy-1,3,5-triazin-2-yl glycoside. <i>Chemical Communications</i> , 2008, , 2016.	4.1	35
23	Novel dialkoxotriazine-type glycosyl donors for cellulase-catalysed lactosylation. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 5126.	2.8	31
24	Chemical Synthesis of Native-Type Cellulose and Its Analogues via Enzymatic Polymerization. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 1996, 33, 1375-1384.	2.2	27
25	Glycosyl Bunte Salts: A Class of Intermediates for Sugar Chemistry. <i>Organic Letters</i> , 2018, 20, 76-79.	4.6	25
26	One-pot Chemoenzymatic Route to Chitoheptaose via Specific Transglycosylation of Chitopentaose with Oxazoline on Chitinase-template. <i>Chemistry Letters</i> , 2012, 41, 689-690.	1.3	21
27	A dimethoxytriazine type glycosyl donor enables a facile chemo-enzymatic route toward β -linked N-acetylglucosaminyl-galactose disaccharide unit from gastric mucin. <i>Chemical Communications</i> , 2012, 48, 5560.	4.1	21
28	Development of chemical and chemo-enzymatic glycosylations. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2017, 93, 125-145.	3.8	21
29	Synthesis of 6- and/or 6-O-methylated cellobiosyl fluorides: new monomers for enzymatic polymerization. <i>Macromolecular Rapid Communications</i> , 1994, 15, 751-756.	3.9	20
30	An environmentally benign and practical synthesis of sugar orthoesters promoted by potassium fluoride. <i>Tetrahedron Letters</i> , 2004, 45, 8847-8848.	1.4	19
31	Chitinase-catalyzed Synthesis of Oligosaccharides by Using a Sugar Oxazoline as Glycosyl Donor. <i>Heterocycles</i> , 2000, 52, 599.	0.7	19
32	Poly(germanium thiolate): a new class of organometallic polymers having a germanium-sulfur bond in the main chain. <i>Macromolecular Chemistry and Physics</i> , 1996, 197, 2437-2445.	2.2	18
33	Stepwise synthesis of chito oligosaccharides through a transition-state analogue substrate catalyzed by mutants of chitinase A1 from <i>Bacillus circulans</i> WL-12. <i>Holzforschung</i> , 2006, 60, 485-491.	1.9	18
34	Enzymatic polymerization to polysaccharides of well-defined structure. <i>Macromolecular Symposia</i> , 1995, 99, 179-184.	0.7	16
35	Direct Introduction of Detachable Fluorescent Tag into Oligosaccharides. <i>Chemistry Letters</i> , 2013, 42, 1038-1039.	1.3	16
36	Metal-catalyzed Stereoselective and Protecting-group-free Synthesis of 1,2- <i>cis</i> -Glycosides Using 4,6-Dimethoxy-1,3,5-triazin-2-yl Glycosides as Glycosyl Donors. <i>Chemistry Letters</i> , 2015, 44, 846-848.	1.3	16

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37	Choroselective Enzymatic Polymerization for Synthesis of Natural Polysaccharides. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 1997, 34, 2135-2142.	2.2	15
38	Colorimetric Assay for Evaluating Glycosyl Fluoride-hydrolyzing Activity of Glycosidase by Using Alizarin Complexon Reagent. <i>Chemistry Letters</i> , 2007, 36, 16-17.	1.3	15
39	Protection-free synthesis of glycosyl dithiocarbamates in aqueous media by using 2-chloroimidazolium reagent. <i>Tetrahedron Letters</i> , 2016, 57, 3529-3531.	1.4	14
40	First Detection of Unprotected 1,2-Anhydro Aldopyranoses. <i>Chemistry Letters</i> , 2017, 46, 1024-1026.	1.3	13
41	Direct Conversion of 2-Acetamido-2-deoxysugars to 1,2-Oxazoline Derivatives by Dehydrative Cyclization in Water. <i>Heterocycles</i> , 2004, 63, 1531.	0.7	12
42	A protecting group-free approach for synthesizing <i>C</i> -glycosides through glycosyl dithiocarbamates. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 3134-3138.	2.8	12
43	Enzymatic Glycosylation. , 2001, , 1465-1496.		12
44	A novel metal-containing polymer: Poly(germanium enolate). <i>Advanced Materials</i> , 1993, 5, 57-59.	21.0	11
45	Novel Oxidation-Reduction Copolymerization of a Germylene with Ethylene or Propylene Sulfide Producing a 1:1± Periodic Copolymer. <i>Macromolecules</i> , 1996, 29, 486-488.	4.8	11
46	Chemo-enzymatic Synthesis of Novel Oligo-N-acetylglucosamine Derivatives having a 1,4-1,6 Repeating Unit by Using Transition State Analogue Substrate. <i>Cellulose</i> , 2006, 13, 477-484.	4.9	11
47	Glycoside Synthesis from Anomeric Halides. , 0, , 29-93.		11
48	Synthesis of Non-natural Xyloglucans by Polycondensation of 4,6-Dimethoxy-1,3,5-triazin-2-yl Oligosaccharide Monomers Catalyzed by Endo-1,4- α -glucanase. <i>Macromolecular Symposia</i> , 2010, 297, 200-209.	0.7	11
49	Synthesis of Glucose-Containing Polyaniline by the Oxidative Polymerization of N-Glucosylaniline. <i>Macromolecular Rapid Communications</i> , 2005, 26, 103-106.	3.9	10
50	4,6-Dimethoxy-1,3,5-triazin-2-yl β -D-glycosaminides: Novel Substrates for Transglycosylation Reaction Catalyzed by Exo- β -D-glucosaminidase from <i>Amycolatopsis orientalis</i> . <i>Journal of Carbohydrate Chemistry</i> , 2012, 31, 634-646.	1.1	10
51	Protection-free Synthesis of Alkyl Glycosides under Hydrogenolytic Conditions. <i>Chemistry Letters</i> , 2013, 42, 1235-1237.	1.3	10
52	Facile Synthesis of Oligosaccharide-Poly(ϵ -lactide) Conjugates Forming Nanoparticles with Saccharide Core and Shell. <i>Chemistry Letters</i> , 2013, 42, 197-199.	1.3	10
53	A Facile Method for Synthesis of 1,2-Oxazoline Derivative of N-Acetylglucosamine Promoted by Potassium Fluoride. <i>Chemistry Letters</i> , 2002, 31, 150-151.	1.3	9
54	Chemistry of 1,2-Anhydro Sugars. <i>Chimia</i> , 2018, 72, 874.	0.6	9

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55	Enzymatic Polymerization.. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 1994, 52, 754-764.	0.1	8
56	Design and Utilization of Chitinases with Low Hydrolytic Activities. Trends in Glycoscience and Glycotechnology, 2007, 19, 165-180.	0.1	7
57	A germylene and stannylene as polymerization comonomer and initiator. Makromolekulare Chemie Macromolecular Symposia, 1992, 54-55, 225-231.	0.6	6
58	Efficient generation of thiolate sugars from glycosyl Bunte salts and its application to S-glycoside synthesis. Tetrahedron Letters, 2020, 61, 152198.	1.4	6
59	Influenza Virus Precision Diagnosis and Continuous Purification Enabled by Neuraminidase-Resistant Glycopolymer-Coated Microbeads. ACS Applied Materials & Interfaces, 2021, 13, 46260-46269.	8.0	6
60	New Methods for Architectures of Glyco-materials. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2003, 61, 1207-1217.	0.1	6
61	Novel polymerizations of germylenes and their reaction mechanisms. Macromolecular Symposia, 1995, 98, 91-100.	0.7	5
62	Enzymatic ring-opening polyaddition for chitin synthesis: A cationic mechanism in basic solution?. Macromolecular Symposia, 1998, 132, 415-420.	0.7	5
63	Hydrogen-Transfer Alternating Copolymerization of P-Ethenyl-N-n-propylphosphonamidic Acid Ethyl Ester with Cyclic Phosphonites Involving Oxidation-Reduction Process. Polymer Journal, 1991, 23, 1099-1104.	2.7	4
64	Preparation of polysaccharide-polymethacrylate hybrid materials by radical polymerization of cationic methacrylate monomer in the presence of anionic polysaccharide. Polymers for Advanced Technologies, 2007, 18, 643-646.	3.2	4
65	Protecting-group-free synthesis of glycopolymers bearing thioglycosides via one-pot monomer synthesis from free saccharides. Journal of Polymer Science Part A, 2014, 52, n/a-n/a.	2.3	3
66	Oxidation-reduction alternating copolymerization of germylene and N-phenyl-p-quinoneimine. Polymer Journal, 2015, 47, 31-36.	2.7	3
67	First protection-free protocol for synthesis of 1-deoxy sugars through glycosyl dithiocarbamate intermediates. Tetrahedron Letters, 2018, 59, 3428-3431.	1.4	3
68	Irradiation of Ultrasound onto Substrate Mixture Enhances Transglycosylating Activity of Commercial α -Amylase Preparation. Chemistry Letters, 2005, 34, 1384-1385.	1.3	2
69	The One-step Preparation of Sugar Oxazoline Enables the Synthesis of Glycoprotein Having a Definite Structure. Trends in Glycoscience and Glycotechnology, 2015, 27, E35-E42.	0.1	2
70	Alternating copolymerization of cyclic germylenes with N-phenyl-p-quinoneimine via oxidation-reduction process. Polymer Journal, 2016, 48, 969-972.	2.7	2
71	Synthesis of Polysaccharides I: Hydrolase as Catalyst. Green Chemistry and Sustainable Technology, 2019, , 15-46.	0.7	2
72	The One-step Preparation of Sugar Oxazoline Enables the Synthesis of Glycoprotein Having a Definite Structure. Trends in Glycoscience and Glycotechnology, 2015, 27, J35-J42.	0.1	2

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73	Chemical Synthesis of Cellulose by Enzymatic Polymerization. Journal of Fiber Science and Technology, 1992, 48, P148-P152.	0.0	1
74	Organic Synthesis as Culture. Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry, 2013, 71, 1115-1115.	0.1	1
75	Alternation Copolymerization of Vinylphosphonic Acid Monoethyl Ester with Cyclic Phosphonites Involving Proton-Transfer.. Polymer Journal, 1992, 24, 1205-1214.	2.7	1
76	Construction of Non-natural Polysaccharide Chains by Glycanases. Journal of Fiber Science and Technology, 1998, 54, P323-P327.	0.0	1
77	Ring-opening-closing alternating copolymerization via zwitterion intermediates. Makromolekulare Chemie Macromolecular Symposia, 1993, 73, 137-146.	0.6	0
78	Precise architecture of 1:1 alternating copolymers between germylenes and <i>p</i> -benzoquinone derivatives: First clear-cut evidence of biradical mechanism in polymerization chemistry. Macromolecular Symposia, 1994, 77, 229-235.	0.7	0
79	Sugar Oxazolines as Directly Preparable Glycosyl Donors from Unprotected N-Acetyl-2-Amino Sugars: Towards One-Pot Chemoenzymatic Synthesis of Glycoproteins Catalyzed by N-Acetylglucosaminidases. , 2014, , 1-6.		0
80	Sugar Oxazolines as Directly Preparable Glycosyl Donors from Unprotected N-Acetyl-2-Amino Sugars: Towards One-Pot Chemo-Enzymatic Synthesis of Glycoproteins Catalyzed by N-Acetylglucosaminidases. , 2015, , 401-407.		0
81	[Review] How is the Hydroxy Group at 2-Position Involved in the Endoglucanase-catalyzed Hydrolyzation or Transglycosylation?. Bulletin of Applied Glycoscience, 2019, 9, 83-89.	0.0	0