Guofeng Gu

List of Publications by Year
in descending order

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		471509	501196
64	1,002	17	28
papers	citations	h-index	g-index

65	65	65	1084
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hyaluronic acid oligosaccharide-collagen mineralized product and aligned nanofibers with enhanced vascularization properties in bone tissue engineering. International Journal of Biological Macromolecules, 2022, 206, 277-287.	7.5	19
2	Facile Enzymatic Synthesis of Diverse Naturally-Occurring Î²-<scp>d</scp>-Mannopyranosides Catalyzed by Glycoside Phosphorylases. ACS Catalysis, 2021, 11, 2763-2768.	11.2	4
3	Immunogenicity Assessment of Different Segments and Domains of Group A Streptococcal C5a Peptidase and Their Application Potential as Carrier Protein for Glycoconjugate Vaccine Development. Vaccines, 2021, 9, 139.	4.4	4
4	Two-Step Enzymatic Conversion of Rebaudioside A into a Mono-Î±-1,4-Glucosylated Rebaudioside A Derivative. Journal of Agricultural and Food Chemistry, 2021, 69, 2522-2530.	5.2	7
5	Fabrication and assessment of chondroitin sulfate-modified collagen nanofibers for small-diameter vascular tissue engineering applications. Carbohydrate Polymers, 2021, 257, 117573.	10.2	13
6	Hyaluronic acid oligosaccharides modified mineralized collagen and chitosan with enhanced osteoinductive properties for bone tissue engineering. Carbohydrate Polymers, 2021, 260, 117780.	10.2	31
7	Biochemical Characterization and Synthetic Application of Î±â€1,3â€Glucosyltransferase from Pneumococcus Serotype 18C. ChemCatChem, 2021, 13, 3350-3356.	3.7	3
8	Reinvestigation of N,N-Diacetylimido-Protected 2-Aminothioglycosides in O-Glycosylation: Intermolecular Hydrogen Bonds Contributing to 1,2-Orthoamide Formation. Journal of Organic Chemistry, 2021, 86, 13212-13230.	3.2	0
9	Novel dTDP-l-Rhamnose Synthetic Enzymes (RmlABCD) From Saccharothrix syringae CGMCC 4.1716 for One-Pot Four-Enzyme Synthesis of dTDP-l-Rhamnose. Frontiers in Microbiology, 2021, 12, 772839.	3.5	5
10	Synthesis of the Oligosaccharides of Burkholderia pseudomallei and B. mallei Capsular Polysaccharide and Preliminary Immunological Studies of Their Protein Conjugates. Journal of Organic Chemistry, 2020, 85, 2369-2384.	3.2	14
11	Group A Streptococcus Cell Wall Oligosaccharide-Streptococcal C5a Peptidase Conjugates as Effective Antibacterial Vaccines. ACS Infectious Diseases, 2020, 6, 281-290.	3.8	31
12	Converting a Î²-N-acetylhexosaminidase into two trans-Î²-N-acetylhexosaminidases by domain-targeted mutagenesis. Applied Microbiology and Biotechnology, 2020, 104, 661-673.	3.6	13
13	Improved Î±-Sialylation through the Synergy of 5-N,4-O-Oxazolidinone Protection and Exocyclic C-1 Neighboring Group Participation. Journal of Organic Chemistry, 2020, 85, 13589-13601.	3.2	1
14	Exploration of Recombinant Fusion Proteins YAPO and YAPL as Carrier Proteins for Glycoconjugate Vaccine Design against Streptococcus pneumoniae Infection. ACS Infectious Diseases, 2020, 6, 2181-2191.	3.8	4
15	Exploring the broad nucleotide triphosphate and sugar-1-phosphate specificity of thymidylyltransferase Cps23FL from Streptococcus pneumonia serotype 23F. RSC Advances, 2020, 10, 30110-30114.	3.6	3
16	Design and comprehensive assessment of a biomimetic tri-layer tubular scaffold via biodegradable polymers for vascular tissue engineering applications. Materials Science and Engineering C, 2020, 110, 110717.	7.3	44
17	Hyaluronic acid oligosaccharide-modified collagen nanofibers as vascular tissue-engineered scaffold for promoting endothelial cell proliferation. Carbohydrate Polymers, 2019, 223, 115106.	10.2	48
18	Improving in vitro biocompatibility on biomimetic mineralized collagen bone materials modified with hyaluronic acid oligosaccharide. Materials Science and Engineering C, 2019, 104, 110008.	7.3	26

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19	Synthesis and immunological studies of group AStreptococcuscell-wall oligosaccharideâ€“streptococcal C5a peptidase conjugates as bivalent vaccines. Organic Chemistry Frontiers, 2019, 6, 3589-3596.	4.5	19
20	Enzymatic Glucosylation of Salidroside from Starch by Î±-Amylase. Journal of Agricultural and Food Chemistry, 2019, 67, 2012-2019.	5.2	16
21	Biochemical studies of a Î²-1,4-rhamnosyltransferase from Streptococcus pneumonia serotype 23F. Organic and Biomolecular Chemistry, 2019, 17, 1071-1075.	2.8	4
22	Semisynthetic Glycoconjugate Vaccines To Elicit T Cell-Mediated Immune Responses and Protection against Streptococcus pneumoniae Serotype 3. ACS Infectious Diseases, 2019, 5, 1423-1432.	3.8	13
23	Fabrication and Comprehensive Characterization of Biomimetic Extracellular Matrix Electrospun Scaffold for Vascular Tissue Engineering Applications. Journal of Materials Science, 2019, 54, 10871-10883.	3.7	43
24	Reprogramming the enzymatic assembly line for site-specific fucosylation. Nature Catalysis, 2019, 2, 514-522.	34.4	52
25	Chemical Synthesis of the Repeating Unit of Type II Group B Streptococcus Capsular Polysaccharide. Journal of Organic Chemistry, 2018, 83, 5920-5930.	3.2	21
26	Synthesis and Immunological Studies of Oligosaccharides that Consist of the Repeating Unit of Streptococcus pneumoniae Serotype 3 Capsular Polysaccharide. Chemistry - A European Journal, 2018, 24, 8205-8216.	3.3	20
27	Characterization and biochemical investigation of the potential inositol monophosphate phosphatase involved in bacterial mycothiol biosynthesis. Journal of Carbohydrate Chemistry, 2018, 37, 507-521.	1.1	1
28	Per-O-Benzylated Ethyl 5-N-Acetyl-Î±-thiosialoside as a Glycosyl Donor for Î±-Silylation. Journal of Carbohydrate Chemistry, 2018, 37, 370-382.	1.1	7
29	Carbohydrate O-benzylation through trialkylsilane-mediated reductive etherification. Journal of Carbohydrate Chemistry, 2018, 37, 327-346.	1.1	8
30	Synthesis of Defined and Functionalized Glycans of Lipoteichoic Acid: A Cell Surface Polysaccharide from Clostridium difficile. Organic Letters, 2017, 19, 3123-3126.	4.6	7
31	Biochemical studies of inositol N-acetylglucosaminyltransferase involved in mycothiol biosynthesis in Corynebacterium diphtheria. Organic and Biomolecular Chemistry, 2017, 15, 3775-3782.	2.8	3
32	Efficient synthesis of tyrosol galactosides by the Î²-galactosidase from Enterobacter cloacae B5. Applied Microbiology and Biotechnology, 2017, 101, 4995-5003.	3.6	19
33	Synthesis of a disaccharide repeating unit of the O-antigen from Burkholderia ambifaria and its oligomers. Carbohydrate Research, 2017, 442, 41-51.	2.3	7
34	Mechanical enhancement and in vitro biocompatibility of nanofibrous collagen-chitosan scaffolds for tissue engineering. Journal of Biomaterials Science, Polymer Edition, 2017, 28, 2255-2270.	3.5	16
35	Mutagenesis and immunological evaluation of group A streptococcal C5a peptidase as an antigen for vaccine development and as a carrier protein for glycoconjugate vaccine design. RSC Advances, 2017, 7, 42056-42063.	3.6	10
36	Synthesis of a trisaccharide repeating unit of the O-antigen from Burkholderia cenocepacia and its dimer. Carbohydrate Research, 2017, 451, 1-11.	2.3	8

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37	Synthesis and Immunological Comparison of Differently Linked Lipoarabinomannan Oligosaccharideâ€“Monophosphoryl Lipid A Conjugates as Antituberculosis Vaccines. Journal of Organic Chemistry, 2017, 82, 12085-12096.	3.2	34
38	Synthesis of a tetrasaccharide repeating unit of the exopolysaccharide from Burkholderia multivorans. Journal of Carbohydrate Chemistry, 2017, 36, 189-204.	1.1	3
39	Efficient and regioselective synthesis of globotriose by a novel Î±-galactosidase from Bacteroides fragilis. Applied Microbiology and Biotechnology, 2016, 100, 6693-6702.	3.6	12
40	Synthesis of a trisaccharide repeating unit of the O-antigen from Burkholderia anthina and its dimer. Carbohydrate Research, 2016, 427, 13-20.	2.3	10
41	Efficient and Regioselective Synthesis of Î²-GalNAc/GlcNAc-Lactose by a Bifunctional Transglycosylating Î²- N -Acetylhexosaminidase from Bifidobacterium bifidum. Applied and Environmental Microbiology, 2016, 82, 5642-5652.	3.1	36
42	Recent advances in the research of bacterial glucuronosyltransferases. Journal of Carbohydrate Chemistry, 2016, 35, 201-223.	1.1	3
43	Synthesis of the biological repeating unit of Streptococcus pneumoniae serotype 23F capsular polysaccharide. Organic and Biomolecular Chemistry, 2016, 14, 11462-11472.	2.8	7
44	One-pot four-enzyme synthesis of thymidinediphosphate-l-rhamnose. Chemical Communications, 2016, 52, 13995-13998.	4.1	16
45	Synthesis of a Trisaccharide Repeating Unit of the Oâ€Antigen from Burkholderia multivorans and Its Oligomers. European Journal of Organic Chemistry, 2015, 2015, 7075-7085.	2.4	6
46	Recent Development in the Synthesis of Natural Saponins and Their Derivatives. Journal of Carbohydrate Chemistry, 2014, 33, 269-297.	1.1	14
47	Synthesis and cytotoxic effect of pseudodiosgenyl saponins with thio-ring F. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 1600-1604.	2.2	11
48	Efficient Synthesis and Antitumor Activities of Indioside E Analogs. Journal of Carbohydrate Chemistry, 2014, 33, 152-168.	1.1	3
49	Efficient one-pot synthesis of tigogenin saponins and their antitumor activities. Carbohydrate Research, 2014, 383, 21-26.	2.3	16
50	Synthesis and Immunological Characterization of Modified Hyaluronic Acid Hexasaccharide Conjugates. Journal of Organic Chemistry, 2013, 78, 8004-8019.	3.2	17
51	Synthesis of Leonosides E and F derived from Leonurus japonicas Houtt. Carbohydrate Research, 2013, 380, 174-180.	2.3	8
52	A chemoenzymatic route to synthesize unnatural sugar nucleotides using a novel N-acetylglucosamine-1-phosphate pyrophosphorylase from Camphylobacter jejuni NCTC 11168. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 4303-4307.	2.2	6
53	Facile Synthesis and Antitumor Activities of Timosaponin AIII and Its Analogs. Journal of Carbohydrate Chemistry, 2012, 31, 187-202.	1.1	10
54	Facile synthesis of triterpenoid saponins bearing Î²-Glu/Gal-(1â†'3)-Î²-GluA methyl ester and their cytotoxic activities. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 2396-2400.	2.2	12

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55	Concise synthesis and antitumor activities of trisaccharide steroidal saponins. Carbohydrate Research, 2011, 346, 2406-2413.	2.3	8
56	Efficient and selective removal of chloroacetyl group promoted with tetra-n-butylammonium fluoride (TBAF). Carbohydrate Research, 2011, 346, 2801-2804.	2.3	12
57	In Situ RBL Receptor Visualization and Its Mediated Anticancer Activity for Solasodine Rhamnosides. ChemBioChem, 2011, 12, 2418-2420.	2.6	32
58	Efficient synthesis of trisaccharide saponins and their tumor cell killing effects through oncotic necrosis. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 622-627.	2.2	31
59	Systematic study on the broad nucleotide triphosphate specificity of the pyrophosphorylase domain of the N-acetylglucosamine-1-phosphate uridyltransferase from Escherichia coli K12. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 6429-6432.	2.2	14
60	Facile Synthesis of Saponins Containing 2,3-Branched Oligosaccharides by Using Partially Protected Glycosyl Donors. Journal of Organic Chemistry, 2004, 69, 5497-5500.	3.2	51
61	Synthesis of Saponins Using Partially Protected Glycosyl Donors. Organic Letters, 2003, 5, 3627-3630.	4.6	51
62	Silver Triflate. A Mild Alternative Catalyst for Glycosylation Conditions Using Trichloroacetimidates as Glycosyl Donors. Journal of Carbohydrate Chemistry, 2003, 22, 385-393.	1.1	32
63	Sequential Oneâ€Pot Threeâ€Enzyme Synthesis of the Tetrasaccharide Repeating Unit of Group B Streptococcus Serotype VIII Capsular Polysaccharide. Chinese Journal of Chemistry, 0, , .	4.9	3
64	Biochemical Characterization and Synthetic Application of WciN and Its Mutants From Streptococcus pneumoniae Serotype 6B. Frontiers in Chemistry, 0, 10, .	3.6	0