

Guofeng Gu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2859351/publications.pdf>

Version: 2024-02-01

64
papers

1,002
citations

471509

17
h-index

501196

28
g-index

65
all docs

65
docs citations

65
times ranked

1084
citing authors

#	ARTICLE	IF	CITATIONS
1	Reprogramming the enzymatic assembly line for site-specific fucosylation. <i>Nature Catalysis</i> , 2019, 2, 514-522.	34.4	52
2	Synthesis of Saponins Using Partially Protected Glycosyl Donors. <i>Organic Letters</i> , 2003, 5, 3627-3630.	4.6	51
3	Facile Synthesis of Saponins Containing 2,3-Branched Oligosaccharides by Using Partially Protected Glycosyl Donors. <i>Journal of Organic Chemistry</i> , 2004, 69, 5497-5500.	3.2	51
4	Hyaluronic acid oligosaccharide-modified collagen nanofibers as vascular tissue-engineered scaffold for promoting endothelial cell proliferation. <i>Carbohydrate Polymers</i> , 2019, 223, 115106.	10.2	48
5	Design and comprehensive assessment of a biomimetic tri-layer tubular scaffold via biodegradable polymers for vascular tissue engineering applications. <i>Materials Science and Engineering C</i> , 2020, 110, 110717.	7.3	44
6	Fabrication and Comprehensive Characterization of Biomimetic Extracellular Matrix Electrospun Scaffold for Vascular Tissue Engineering Applications. <i>Journal of Materials Science</i> , 2019, 54, 10871-10883.	3.7	43
7	Efficient and Regioselective Synthesis of β -GalNAc/GlcNAc-Lactose by a Bifunctional Transglycosylating β -Acetylhexosaminidase from <i>Bifidobacterium bifidum</i> . <i>Applied and Environmental Microbiology</i> , 2016, 82, 5642-5652.	3.1	36
8	Synthesis and Immunological Comparison of Differently Linked Lipoarabinomannan Oligosaccharide- α -Monophosphoryl Lipid A Conjugates as Antituberculosis Vaccines. <i>Journal of Organic Chemistry</i> , 2017, 82, 12085-12096.	3.2	34
9	Silver Triflate. A Mild Alternative Catalyst for Glycosylation Conditions Using Trichloroacetimidates as Glycosyl Donors. <i>Journal of Carbohydrate Chemistry</i> , 2003, 22, 385-393.	1.1	32
10	In Situ RBL Receptor Visualization and Its Mediated Anticancer Activity for Solasodine Rhamnosides. <i>ChemBioChem</i> , 2011, 12, 2418-2420.	2.6	32
11	Efficient synthesis of trisaccharide saponins and their tumor cell killing effects through oncotic necrosis. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 622-627.	2.2	31
12	Group A <i>Streptococcus</i> Cell Wall Oligosaccharide- <i>Streptococcal</i> C5a Peptidase Conjugates as Effective Antibacterial Vaccines. <i>ACS Infectious Diseases</i> , 2020, 6, 281-290.	3.8	31
13	Hyaluronic acid oligosaccharides modified mineralized collagen and chitosan with enhanced osteoinductive properties for bone tissue engineering. <i>Carbohydrate Polymers</i> , 2021, 260, 117780.	10.2	31
14	Improving in vitro biocompatibility on biomimetic mineralized collagen bone materials modified with hyaluronic acid oligosaccharide. <i>Materials Science and Engineering C</i> , 2019, 104, 110008.	7.3	26
15	Chemical Synthesis of the Repeating Unit of Type II Group B <i>Streptococcus</i> Capsular Polysaccharide. <i>Journal of Organic Chemistry</i> , 2018, 83, 5920-5930.	3.2	21
16	Synthesis and Immunological Studies of Oligosaccharides that Consist of the Repeating Unit of <i>Streptococcus pneumoniae</i> Serotype 3 Capsular Polysaccharide. <i>Chemistry - A European Journal</i> , 2018, 24, 8205-8216.	3.3	20
17	Efficient synthesis of tyrosol galactosides by the β -galactosidase from <i>Enterobacter cloacae</i> B5. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 4995-5003.	3.6	19
18	Synthesis and immunological studies of group A <i>Streptococcus</i> cell-wall oligosaccharide- α -streptococcal C5a peptidase conjugates as bivalent vaccines. <i>Organic Chemistry Frontiers</i> , 2019, 6, 3589-3596.	4.5	19

#	ARTICLE	IF	CITATIONS
19	Hyaluronic acid oligosaccharide-collagen mineralized product and aligned nanofibers with enhanced vascularization properties in bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2022, 206, 277-287.	7.5	19
20	Synthesis and Immunological Characterization of Modified Hyaluronic Acid Hexasaccharide Conjugates. <i>Journal of Organic Chemistry</i> , 2013, 78, 8004-8019.	3.2	17
21	Efficient one-pot synthesis of tigogenin saponins and their antitumor activities. <i>Carbohydrate Research</i> , 2014, 383, 21-26.	2.3	16
22	One-pot four-enzyme synthesis of thymidinediphosphate-l-rhamnose. <i>Chemical Communications</i> , 2016, 52, 13995-13998.	4.1	16
23	Mechanical enhancement and <i>in vitro</i> biocompatibility of nanofibrous collagen-chitosan scaffolds for tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2017, 28, 2255-2270.	3.5	16
24	Enzymatic Glucosylation of Salidroside from Starch by α -Amylase. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 2012-2019.	5.2	16
25	Systematic study on the broad nucleotide triphosphate specificity of the pyrophosphorylase domain of the N-acetylglucosamine-1-phosphate uridylyltransferase from <i>Escherichia coli</i> K12. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 6429-6432.	2.2	14
26	Recent Development in the Synthesis of Natural Saponins and Their Derivatives. <i>Journal of Carbohydrate Chemistry</i> , 2014, 33, 269-297.	1.1	14
27	Synthesis of the Oligosaccharides of <i>Burkholderia pseudomallei</i> and <i>B. mallei</i> Capsular Polysaccharide and Preliminary Immunological Studies of Their Protein Conjugates. <i>Journal of Organic Chemistry</i> , 2020, 85, 2369-2384.	3.2	14
28	Semisynthetic Glycoconjugate Vaccines To Elicit T Cell-Mediated Immune Responses and Protection against <i>Streptococcus pneumoniae</i> Serotype 3. <i>ACS Infectious Diseases</i> , 2019, 5, 1423-1432.	3.8	13
29	Converting a β -N-acetylhexosaminidase into two trans- β -N-acetylhexosaminidases by domain-targeted mutagenesis. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 661-673.	3.6	13
30	Fabrication and assessment of chondroitin sulfate-modified collagen nanofibers for small-diameter vascular tissue engineering applications. <i>Carbohydrate Polymers</i> , 2021, 257, 117573.	10.2	13
31	Efficient and selective removal of chloroacetyl group promoted with tetra-n-butylammonium fluoride (TBAF). <i>Carbohydrate Research</i> , 2011, 346, 2801-2804.	2.3	12
32	Facile synthesis of triterpenoid saponins bearing β -Glu/Gal-(1 \rightarrow 3)- β -GluA methyl ester and their cytotoxic activities. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 2396-2400.	2.2	12
33	Efficient and regioselective synthesis of globotriose by a novel β -galactosidase from <i>Bacteroides fragilis</i> . <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6693-6702.	3.6	12
34	Synthesis and cytotoxic effect of pseudodiosgenyl saponins with thio-ring F. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 1600-1604.	2.2	11
35	Facile Synthesis and Antitumor Activities of Timosaponin AIII and Its Analogs. <i>Journal of Carbohydrate Chemistry</i> , 2012, 31, 187-202.	1.1	10
36	Synthesis of a trisaccharide repeating unit of the O-antigen from <i>Burkholderia anthina</i> and its dimer. <i>Carbohydrate Research</i> , 2016, 427, 13-20.	2.3	10

#	ARTICLE	IF	CITATIONS
37	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. <i>RSC Advances</i> , 2017, 7, 42056-42063.	3.6	10
38	Concise synthesis and antitumor activities of trisaccharide steroidal saponins. <i>Carbohydrate Research</i> , 2011, 346, 2406-2413.	2.3	8
39	Synthesis of Leonosides E and F derived from <i>Leonurus japonicas</i> Houtt. <i>Carbohydrate Research</i> , 2013, 380, 174-180.	2.3	8
40	Synthesis of a trisaccharide repeating unit of the O-antigen from <i>Burkholderia cenocepacia</i> and its dimer. <i>Carbohydrate Research</i> , 2017, 451, 1-11.	2.3	8
41	Carbohydrate <i>O</i> -benzylolation through trialkylsilane-mediated reductive etherification. <i>Journal of Carbohydrate Chemistry</i> , 2018, 37, 327-346.	1.1	8
42	Synthesis of the biological repeating unit of <i>Streptococcus pneumoniae</i> serotype 23F capsular polysaccharide. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 11462-11472.	2.8	7
43	Synthesis of Defined and Functionalized Glycans of Lipoteichoic Acid: A Cell Surface Polysaccharide from <i>Clostridium difficile</i> . <i>Organic Letters</i> , 2017, 19, 3123-3126.	4.6	7
44	Synthesis of a disaccharide repeating unit of the O-antigen from <i>Burkholderia ambifaria</i> and its oligomers. <i>Carbohydrate Research</i> , 2017, 442, 41-51.	2.3	7
45	Per- <i>O</i> -Benzylated Ethyl 5- <i>N</i> -Acetyl- β -thiosialoside as a Glycosyl Donor for β -Silylation. <i>Journal of Carbohydrate Chemistry</i> , 2018, 37, 370-382.	1.1	7
46	Two-Step Enzymatic Conversion of Rebaudioside A into a Mono- β -1,4-Glucosylated Rebaudioside A Derivative. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 2522-2530.	5.2	7
47	A chemoenzymatic route to synthesize unnatural sugar nucleotides using a novel <i>N</i> -acetylglucosamine-1-phosphate pyrophosphorylase from <i>Campylobacter jejuni</i> NCTC 11168. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 4303-4307.	2.2	6
48	Synthesis of a Trisaccharide Repeating Unit of the O α -Antigen from <i>Burkholderia multivorans</i> and Its Oligomers. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 7075-7085.	2.4	6
49	Novel dTDP-l-Rhamnose Synthetic Enzymes (RmlABCD) From <i>Saccharothrix syringae</i> CGMCC 4.1716 for One-Pot Four-Enzyme Synthesis of dTDP-l-Rhamnose. <i>Frontiers in Microbiology</i> , 2021, 12, 772839.	3.5	5
50	Biochemical studies of a β -1,4-rhamnosyltransferase from <i>Streptococcus pneumoniae</i> serotype 23F. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 1071-1075.	2.8	4
51	Exploration of Recombinant Fusion Proteins YAPO and YAPL as Carrier Proteins for Glycoconjugate Vaccine Design against <i>Streptococcus pneumoniae</i> Infection. <i>ACS Infectious Diseases</i> , 2020, 6, 2181-2191.	3.8	4
52	Facile Enzymatic Synthesis of Diverse Naturally-Occurring β -D-Mannopyranosides Catalyzed by Glycoside Phosphorylases. <i>ACS Catalysis</i> , 2021, 11, 2763-2768.	11.2	4
53	Immunogenicity Assessment of Different Segments and Domains of Group A Streptococcal C5a Peptidase and Their Application Potential as Carrier Protein for Glycoconjugate Vaccine Development. <i>Vaccines</i> , 2021, 9, 139.	4.4	4
54	Efficient Synthesis and Antitumor Activities of Indioside E Analogs. <i>Journal of Carbohydrate Chemistry</i> , 2014, 33, 152-168.	1.1	3

#	ARTICLE	IF	CITATIONS
55	Recent advances in the research of bacterial glucuronosyltransferases. <i>Journal of Carbohydrate Chemistry</i> , 2016, 35, 201-223.	1.1	3
56	Biochemical studies of inositol N-acetylglucosaminyltransferase involved in mycothiol biosynthesis in <i>Corynebacterium diphtheria</i> . <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 3775-3782.	2.8	3
57	Synthesis of a tetrasaccharide repeating unit of the exopolysaccharide from <i>Burkholderia multivorans</i> . <i>Journal of Carbohydrate Chemistry</i> , 2017, 36, 189-204.	1.1	3
58	Exploring the broad nucleotide triphosphate and sugar-1-phosphate specificity of thymidyltransferase Cps23FL from <i>Streptococcus pneumoniae</i> serotype 23F. <i>RSC Advances</i> , 2020, 10, 30110-30114.	3.6	3
59	Biochemical Characterization and Synthetic Application of α -1,3-Glucosyltransferase from <i>Pneumococcus</i> Serotype 18C. <i>ChemCatChem</i> , 2021, 13, 3350-3356.	3.7	3
60	Sequential One-Pot Three-Enzyme Synthesis of the Tetrasaccharide Repeating Unit of Group B <i>Streptococcus</i> Serotype VIII Capsular Polysaccharide. <i>Chinese Journal of Chemistry</i> , 0, , .	4.9	3
61	Characterization and biochemical investigation of the potential inositol monophosphate phosphatase involved in bacterial mycothiol biosynthesis. <i>Journal of Carbohydrate Chemistry</i> , 2018, 37, 507-521.	1.1	1
62	Improved α -Sialylation through the Synergy of 5-N,4-O-Oxazolidinone Protection and Exocyclic C-1 Neighboring Group Participation. <i>Journal of Organic Chemistry</i> , 2020, 85, 13589-13601.	3.2	1
63	Reinvestigation of N,N-Diacetylimido-Protected 2-Aminothioglycosides in O-Glycosylation: Intermolecular Hydrogen Bonds Contributing to 1,2-Orthoamide Formation. <i>Journal of Organic Chemistry</i> , 2021, 86, 13212-13230.	3.2	0
64	Biochemical Characterization and Synthetic Application of WciN and Its Mutants From <i>Streptococcus pneumoniae</i> Serotype 6B. <i>Frontiers in Chemistry</i> , 0, 10, .	3.6	0