

Xiao-Dong Gao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90
papers

1,046
citations

17
h-index

29
g-index

100
ext. papers

1,343
ext. citations

5.2
avg, IF

4.66
L-index

#	Paper	IF	Citations
90	Optimising the oil phases of aluminium hydrogel-stabilised emulsions for stable, safe and efficient vaccine adjuvant.. <i>Frontiers of Chemical Science and Engineering</i> , 2022 , 1-12	4.5	
89	Topological and enzymatic analysis of human Alg2 mannosyltransferase reveals its role in lipid-linked oligosaccharide biosynthetic pathway.. <i>Communications Biology</i> , 2022 , 5, 117	6.7	1
88	Identification of a Novel Alditol Oxidase from <i>Thermopolyspora flexuosa</i> with Potential Application in D-Glyceric Acid Production.. <i>Molecular Biotechnology</i> , 2022 , 1	3	0
87	Spore-Encapsulating Glycosyltransferase Catalysis Tandem Reactions: Facile Chemoenzymatic Synthesis of Complex Human Glycans. <i>ACS Catalysis</i> , 2022 , 12, 3181-3188	13.1	1
86	Alg mannosyltransferases: From functional and structural analyses to the lipid-linked oligosaccharide pathway reconstitution.. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2022 , 1866, 130112	4	0
85	Recent Advances Regarding the Physiological Functions and Biosynthesis of D-Allulose.. <i>Frontiers in Microbiology</i> , 2022 , 13, 881037	5.7	1
84	Engineering mannosylated pickering emulsions for the targeted delivery of multicomponent vaccines. <i>Biomaterials</i> , 2021 , 280, 121313	15.6	1
83	Maca extracts regulate glucose and lipid metabolism in insulin-resistant HepG2 cells via the PI3K/AKT signalling pathway. <i>Food Science and Nutrition</i> , 2021 , 9, 2894-2907	3.2	0
82	Cell engineering for the production of hybrid-type N-glycans in HEK293 cells. <i>Journal of Biochemistry</i> , 2021 , 170, 139-151	3.1	2
81	Global mapping of glycosylation pathways in human-derived cells. <i>Developmental Cell</i> , 2021 , 56, 1195-1209.e7	10.7	16
80	Human SND2 mediates ER targeting of GPI-anchored proteins with low hydrophobic GPI attachment signals. <i>FEBS Letters</i> , 2021 , 595, 1542-1558	3.8	1
79	Sulfation of a FLAG tag mediated by SLC35B2 and TPST2 affects antibody recognition. <i>PLoS ONE</i> , 2021 , 16, e0250805	3.7	
78	A knockout cell library of GPI biosynthetic genes for functional studies of GPI-anchored proteins. <i>Communications Biology</i> , 2021 , 4, 777	6.7	2
77	Selecting cells expressing high levels of recombinant proteins using the GPI-anchored protein with selenocysteine system. <i>Journal of Bioscience and Bioengineering</i> , 2021 , 131, 225-233	3.3	
76	Identification of novel O-GlcNAc transferase substrates using yeast cells expressing OGT. <i>Journal of General and Applied Microbiology</i> , 2021 , 67, 33-41	1.5	1
75	Regulation of alcohol oxidase gene expression in methylotrophic yeast <i>Ogataea minuta</i> . <i>Journal of Bioscience and Bioengineering</i> , 2021 , 132, 437-444	3.3	1
74	Suppression of Vps13 adaptor protein mutants reveals a central role for PI4P in regulating prospore membrane extension. <i>PLoS Genetics</i> , 2021 , 17, e1009727	6	3

73	MON2 Guides Wntless Transport to the Golgi through Recycling Endosomes. <i>Cell Structure and Function</i> , 2020 , 45, 77-92	2.2	6
72	Functional characteristics of Svl3 and Pam1 that are required for proper cell wall formation in yeast cells. <i>Yeast</i> , 2020 , 37, 359-371	3-4	
71	Encapsulation of Mannose-6-phosphate Isomerase in Yeast Spores and Its Application in l-Ribose Production. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 6892-6899	5-7	1
70	Recent Progress in Chemo-Enzymatic Methods for the Synthesis of N-Glycans. <i>Frontiers in Chemistry</i> , 2020 , 8, 513	5	15
69	Characteristics of SNARE proteins are defined by distinctive properties of SNARE motifs. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020 , 1864, 129658	4	1
68	One-Pot Multienzyme Synthesis of Rare Ketoses from Glycerol. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 1347-1353	5-7	15
67	Characterization of alditol oxidase from <i>Streptomyces coelicolor</i> and its application in the production of rare sugars. <i>Bioorganic and Medicinal Chemistry</i> , 2020 , 28, 115464	3-4	4
66	Unique Properties of the <i>S. cerevisiae</i> Spore Wall and Its Applications. <i>Trends in Glycoscience and Glycotechnology</i> , 2020 , 32, E189-E193	0-1	0
65	Unique Properties of the <i>S. cerevisiae</i> Spore Wall and Its Applications. <i>Trends in Glycoscience and Glycotechnology</i> , 2020 , 32, J165-J169	0-1	
64	Cascade synthesis of rare ketoses by whole cells based on L-rhamnulose-1-phosphate aldolase. <i>Enzyme and Microbial Technology</i> , 2020 , 133, 109456	3-8	4
63	Chemo-enzymatic synthesis of the ALG1-CDG biomarker and evaluation of its immunogenicity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020 , 30, 127614	2-9	0
62	COVID-19 Vaccines: Particulate Alum via Pickering Emulsion for an Enhanced COVID-19 Vaccine Adjuvant (Adv. Mater. 40/2020). <i>Advanced Materials</i> , 2020 , 32, 2070303	24	78
61	Calnexin mediates the maturation of GPI-anchors through ER retention. <i>Journal of Biological Chemistry</i> , 2020 , 295, 16393-16410	5-4	8
60	Particulate Alum via Pickering Emulsion for an Enhanced COVID-19 Vaccine Adjuvant. <i>Advanced Materials</i> , 2020 , 32, e2004210	24	26
59	Origin identification of Chinese Maca using electronic nose coupled with GC-MS. <i>Scientific Reports</i> , 2019 , 9, 12216	4-9	5
58	Efficient chiral synthesis by <i>Saccharomyces cerevisiae</i> spore encapsulation of <i>Candida parapsilosis</i> Glu228Ser/(S)-carbonyl reductase II and <i>Bacillus</i> sp. YX-1 glucose dehydrogenase in organic solvents. <i>Microbial Cell Factories</i> , 2019 , 18, 87	6-4	3
57	Glycoengineering of HEK293 cells to produce high-mannose-type N-glycan structures. <i>Journal of Biochemistry</i> , 2019 , 166, 245-258	3-1	8
56	Reconstitution of the lipid-linked oligosaccharide pathway for assembly of high-mannose N-glycans. <i>Nature Communications</i> , 2019 , 10, 1813	17-4	14

55	Production of l-Ribulose Using an Encapsulated l-Arabinose Isomerase in Yeast Spores. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 4868-4875	5.7	4
54	Establishment of DHFR-deficient HEK293 cells for high yield of therapeutic glycoproteins. <i>Journal of Bioscience and Bioengineering</i> , 2019 , 128, 487-494	3.3	6
53	Yeast Dop1 is required for glycosyltransferase retrieval from the trans-Golgi network. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019 , 1863, 1147-1157	4	3
52	Construction of functional chimeras of syntaxin-1A and its yeast orthologue, and their application to the yeast cell-based assay for botulinum neurotoxin serotype C. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019 , 1863, 129396	4	1
51	Exploiting the Lymph-Node-Amplifying Effect for Potent Systemic and Gastrointestinal Immune Responses Polymer/Lipid Nanoparticles. <i>ACS Nano</i> , 2019 , 13, 13809-13817	16.7	11
50	Folate-conjugated, mesoporous silica functionalized boron nitride nanospheres for targeted delivery of doxorubicin. <i>Materials Science and Engineering C</i> , 2019 , 96, 552-560	8.3	21
49	Genetic disruption of multiple α ,2-mannosidases generates mammalian cells producing recombinant proteins with high-mannose-type -glycans. <i>Journal of Biological Chemistry</i> , 2018 , 293, 5572-5584	5.4	16
48	Osw2 is required for proper assembly of glucan and/or mannan layers of the yeast spore wall. <i>Journal of Biochemistry</i> , 2018 , 163, 293-304	3.1	1
47	Construction of green fluorescence protein mutant to monitor STT3B-dependent N-glycosylation. <i>FEBS Journal</i> , 2018 , 285, 915-928	5.7	2
46	-Glycan-dependent protein folding and endoplasmic reticulum retention regulate GPI-anchor processing. <i>Journal of Cell Biology</i> , 2018 , 217, 585-599	7.3	31
45	Alternative routes for synthesis of N-linked glycans by Alg2 mannosyltransferase. <i>FASEB Journal</i> , 2018 , 32, 2492-2506	0.9	8
44	PER1, GUP1 and CWH43 of methylotrophic yeast <i>Ogataea minuta</i> are involved in cell wall integrity. <i>Yeast</i> , 2018 , 35, 225-236	3.4	4
43	Characterization of a yeast sporulation-specific P450 family protein, Dit2, using an in vitro assay to crosslink formyl tyrosine. <i>Journal of Biochemistry</i> , 2018 , 163, 123-131	3.1	1
42	Approaches towards the core pentasaccharide in N-linked glycans. <i>Chinese Chemical Letters</i> , 2018 , 29, 35-39	8.1	4
41	Structural modeling and mutagenesis of endo-N-acetylglucosaminidase from <i>Ogataea minuta</i> identifies the importance of Trp295 for hydrolytic activity. <i>Journal of Bioscience and Bioengineering</i> , 2018 , 125, 168-174	3.3	2
40	pH-responsive charge-reversal polymer-functionalized boron nitride nanospheres for intracellular doxorubicin delivery. <i>International Journal of Nanomedicine</i> , 2018 , 13, 641-652	7.3	32
39	PiggyBac-based screening identified BEM4 as a suppressor to rescue growth defects in och1-disrupted yeast cells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2018 , 82, 1497-1507	2.1	1
38	Structural and functional analysis of Alg1 beta-1,4 mannosyltransferase reveals the physiological importance of its membrane topology. <i>Glycobiology</i> , 2018 , 28, 741-753	5.8	6

37	Identification and characterization of transcriptional control region of the human beta 1,4-mannosyltransferase gene. <i>Cytotechnology</i> , 2017 , 69, 417-434	2.2	0
36	Nanodelivery systems for enhancing the immunostimulatory effect of CpG oligodeoxynucleotides. <i>Materials Science and Engineering C</i> , 2017 , 70, 935-946	8.3	42
35	Molecular switching system using glycosylphosphatidylinositol to select cells highly expressing recombinant proteins. <i>Scientific Reports</i> , 2017 , 7, 4033	4.9	6
34	Yeast cells as an assay system for in vivo O-GlcNAc modification. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 1159-1167	4	7
33	Production of encapsulated creatinase using yeast spores. <i>Bioengineered</i> , 2017 , 8, 411-419	5.7	5
32	Graphene oxide-chitosan nanocomposites for intracellular delivery of immunostimulatory CpG oligodeoxynucleotides. <i>Materials Science and Engineering C</i> , 2017 , 73, 144-151	8.3	47
31	Dynamic localization of a yeast development-specific PP1 complex during prospore membrane formation is dependent on multiple localization signals and complex formation. <i>Molecular Biology of the Cell</i> , 2017 , 28, 3881-3895	3.5	5
30	Recent advances in the synthesis of rare sugars using DHAP-dependent aldolases. <i>Carbohydrate Research</i> , 2017 , 452, 108-115	2.9	17
29	El,6-glucan synthesis-associated genes are required for proper spore wall formation in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2017 , 34, 431-446	3.4	10
28	reconstitution of the yeast spore wall dityrosine layer discloses the mechanism of its assembly. <i>Journal of Biological Chemistry</i> , 2017 , 292, 15880-15891	5.4	3
27	Consecutive hydrolysis of creatinine using creatininase and creatinase encapsulated in <i>Saccharomyces cerevisiae</i> spores. <i>Biotechnology Letters</i> , 2017 , 39, 261-267	3	2
26	Quantitative study of yeast Alg1 beta-1, 4 mannosyltransferase activity, a key enzyme involved in protein N-glycosylation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 2934-2941	4	14
25	Chitosan-Functionalized Graphene Oxide as a Potential Immunoadjuvant. <i>Nanomaterials</i> , 2017 , 7,	5.4	52
24	The Dysferlin Domain-Only Protein, Spo73, Is Required for Prospore Membrane Extension in <i>Saccharomyces cerevisiae</i> . <i>MSphere</i> , 2016 , 1,	5	4
23	Synthesis of Rare Pentoses Using Microbial and Enzymatic Reactions. <i>Current Organic Chemistry</i> , 2016 , 20, 1456-1464	1.7	5
22	Folate-conjugated boron nitride nanospheres for targeted delivery of anticancer drugs. <i>International Journal of Nanomedicine</i> , 2016 , 11, 4573-4582	7.3	45
21	Effects of Rho1, a small GTPase on the production of recombinant glycoproteins in <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2016 , 15, 179	6.4	8
20	Characterization of glycerol phosphate oxidase from <i>Streptococcus pneumoniae</i> and its application for ketose synthesis. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 504-7	2.9	5

19	Bioconversion of D-glucose to D-psicose with immobilized D-xylose isomerase and D-psicose 3-epimerase on <i>Saccharomyces cerevisiae</i> spores. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2015 , 42, 1117-28	4.2	36
18	Enzymatic synthesis of rare sugars with L-rhamnulose-1-phosphate aldolase from <i>Thermotoga maritima</i> MSB8. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 3980-3	2.9	8
17	Polyethyleneimine-functionalized boron nitride nanospheres as efficient carriers for enhancing the immunostimulatory effect of CpG oligodeoxynucleotides. <i>International Journal of Nanomedicine</i> , 2015 , 10, 5343-53	7.3	27
16	Genome-Wide Screening of Genes Required for Glycosylphosphatidylinositol Biosynthesis. <i>PLoS ONE</i> , 2015 , 10, e0138553	3.7	17
15	Yeast cell-based analysis of human lactate dehydrogenase isoforms. <i>Journal of Biochemistry</i> , 2015 , 158, 467-76	3.1	8
14	Glycan-Mediated Protein Transport from the Endoplasmic Reticulum 2015 , 21-34		
13	Use of yeast spores for microencapsulation of enzymes. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 4502-10	4.8	17
12	Applied usage of yeast spores as chitosan beads. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 5098-105	4.05	15
11	Heterodimeric Alg13/Alg14 UDP-GlcNAc Transferase (ALG13,14) 2014 , 1231-1238		
10	Dolichyl-Phosphate (UDP-N-Acetylglucosamine) N-Acetylglucosaminephospho transferase 1 (GlcNAc-1-P Transferase) (DPAGT1) 2014 , 1223-1230		
9	Alg14 organizes the formation of a multiglycosyltransferase complex involved in initiation of lipid-linked oligosaccharide biosynthesis. <i>Glycobiology</i> , 2012 , 22, 504-16	5.8	39
8	Physical Interactions among Human Glycosyltransferases Involved in Dolichol-Linked Oligosaccharide Biosynthesis. <i>Trends in Glycoscience and Glycotechnology</i> , 2012 , 24, 65-77	0.1	3
7	A strategy for neuraminidase inhibitors using mechanism-based labeling information. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 1048-56	4.5	10
6	Bovine milk lactoferrin induces synthesis of the angiogenic factors VEGF and FGF2 in osteoblasts via the p44/p42 MAP kinase pathway. <i>BioMetals</i> , 2011 , 24, 847-56	3.4	19
5	Protein phosphatase type 1-interacting protein Ysw1 is involved in proper septin organization and prospore membrane formation during sporulation. <i>Eukaryotic Cell</i> , 2009 , 8, 1027-37		11
4	Interaction between the C termini of Alg13 and Alg14 mediates formation of the active UDP-N-acetylglucosamine transferase complex. <i>Journal of Biological Chemistry</i> , 2008 , 283, 32534-41	5.4	31
3	Alg13p, the catalytic subunit of the endoplasmic reticulum UDP-GlcNAc glycosyltransferase, is a target for proteasomal degradation. <i>Molecular Biology of the Cell</i> , 2008 , 19, 2169-78	3.5	14
2	Alg14 recruits Alg13 to the cytoplasmic face of the endoplasmic reticulum to form a novel bipartite UDP-N-acetylglucosamine transferase required for the second step of N-linked glycosylation. <i>Journal of Biological Chemistry</i> , 2005 , 280, 36254-62	5.4	88

- 1 Physical interactions between the Alg1, Alg2, and Alg11 mannosyltransferases of the endoplasmic reticulum. *Glycobiology*, **2004**, 14, 559-70 5.8 52