

# Xiao-Dong Gao

## List of Publications by Year in descending order

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Version: 2024-02-01

94  
papers

1,536  
citations

331670

21  
h-index

377865

34  
g-index

100  
all docs

100  
docs citations

100  
times ranked

1882  
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering mannosylated pickering emulsions for the targeted delivery of multicomponent vaccines. <i>Biomaterials</i> , 2022, 280, 121313.	11.4	18
2	Application of yeast spores as $\beta$ -glucan particles. <i>Particuology</i> , 2022, 71, 34-40.	3.6	2
3	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.	4.4	1
4	Topological and enzymatic analysis of human Alg2 mannosyltransferase reveals its role in lipid-linked oligosaccharide biosynthetic pathway. <i>Communications Biology</i> , 2022, 5, 117.	4.4	4
5	Identification of a Novel Alditol Oxidase from <i>Thermopolyspora flexuosa</i> with Potential Application in d-Glyceric Acid Production. <i>Molecular Biotechnology</i> , 2022, 64, 804-813.	2.4	5
6	Spore-Encapsulating Glycosyltransferase Catalysis Tandem Reactions: Facile Chemoenzymatic Synthesis of Complex Human Glycans. <i>ACS Catalysis</i> , 2022, 12, 3181-3188.	11.2	5
7	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.	2.4	5
8	Recent Advances Regarding the Physiological Functions and Biosynthesis of D-Allulose. <i>Frontiers in Microbiology</i> , 2022, 13, 881037.	3.5	8
9	Establishment of a Novel Cell Surface Display Platform Based on Natural $\beta$ -Chitosan Beads of Yeast Spores. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 7479-7489.	5.2	0
10	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.	2.2	0
11	Identification of novel $\beta$ -D-GlcNAc transferase substrates using yeast cells expressing OGT. <i>Journal of General and Applied Microbiology</i> , 2021, 67, 33-41.	0.7	3
12	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.	3.4	6
13	Cell engineering for the production of hybrid-type N-glycans in HEK293 cells. <i>Journal of Biochemistry</i> , 2021, 170, 139-151.	1.7	7
14	Global mapping of glycosylation pathways in human-derived cells. <i>Developmental Cell</i> , 2021, 56, 1195-1209.e7.	7.0	46
15	Human SND2 mediates ER targeting of GPI-anchored proteins with low hydrophobic GPI attachment signals. <i>FEBS Letters</i> , 2021, 595, 1542-1558.	2.8	13
16	Sulfation of a FLAG tag mediated by SLC35B2 and TPST2 affects antibody recognition. <i>PLoS ONE</i> , 2021, 16, e0250805.	2.5	0
17	A knockout cell library of GPI biosynthetic genes for functional studies of GPI-anchored proteins. <i>Communications Biology</i> , 2021, 4, 777.	4.4	20
18	Regulation of alcohol oxidase gene expression in methylotrophic yeast <i>Ogataea minuta</i> . <i>Journal of Bioscience and Bioengineering</i> , 2021, 132, 437-444.	2.2	3

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19	Suppression of Vps13 adaptor protein mutants reveals a central role for PI4P in regulating prospore membrane extension. <i>PLoS Genetics</i> , 2021, 17, e1009727.	3.5	12
20	Functional Analysis of the GPI Transamidase Complex by Screening for Amino Acid Mutations in Each Subunit. <i>Molecules</i> , 2021, 26, 5462.	3.8	5
21	Cascade synthesis of rare ketoses by whole cells based on L-rhamnulose-1-phosphate aldolase. <i>Enzyme and Microbial Technology</i> , 2020, 133, 109456.	3.2	9
22	Chemo-enzymatic synthesis of the ALG1-CDG biomarker and evaluation of its immunogenicity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127614.	2.2	2
23	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.	21.0	0
24	Calnexin mediates the maturation of GPI-anchors through ER retention. <i>Journal of Biological Chemistry</i> , 2020, 295, 16393-16410.	3.4	18
25	Particulate Alum via Pickering Emulsion for an Enhanced COVID-19 Vaccine Adjuvant. <i>Advanced Materials</i> , 2020, 32, e2004210.	21.0	65
26	MON2 Guides Wntless Transport to the Golgi through Recycling Endosomes. <i>Cell Structure and Function</i> , 2020, 45, 77-92.	1.1	13
27	Functional characteristics of Svl3 and Pam1 that are required for proper cell wall formation in yeast cells. <i>Yeast</i> , 2020, 37, 359-371.	1.7	1
28	Studies on the Properties of the Sporulation Specific Protein Dit1 and Its Product Formyl Tyrosine. <i>Journal of Fungi (Basel, Switzerland)</i> , 2020, 6, 77.	3.5	4
29	Encapsulation of Mannose-6-phosphate Isomerase in Yeast Spores and Its Application in <i>scp</i> -Ribose Production. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 6892-6899.	5.2	2
30	Recent Progress in Chemo-Enzymatic Methods for the Synthesis of N-Glycans. <i>Frontiers in Chemistry</i> , 2020, 8, 513.	3.6	39
31	Characteristics of SNARE proteins are defined by distinctive properties of SNARE motifs. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129658.	2.4	3
32	One-Pot Multienzyme Synthesis of Rare Ketoses from Glycerol. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 1347-1353.	5.2	24
33	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.	3.0	9
34	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	2
35	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	0
36	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.	2.4	2

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37	Exploiting the Lymph-Node-Amplifying Effect for Potent Systemic and Gastrointestinal Immune Responses via Polymer/Lipid Nanoparticles. <i>ACS Nano</i> , 2019, 13, 13809-13817.	14.6	23
38	Origin identification of Chinese Maca using electronic nose coupled with GC-MS. <i>Scientific Reports</i> , 2019, 9, 12216.	3.3	8
39	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.	4.0	5
40	Glycoengineering of HEK293 cells to produce high-mannose-type N-glycan structures. <i>Journal of Biochemistry</i> , 2019, 166, 245-258.	1.7	18
41	Reconstitution of the lipid-linked oligosaccharide pathway for assembly of high-mannose N-glycans. <i>Nature Communications</i> , 2019, 10, 1813.	12.8	29
42	Production of $\alpha$ -Ribulose Using an Encapsulated $\alpha$ -Arabinose Isomerase in Yeast Spores. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 4868-4875.	5.2	5
43	Establishment of DHFR-deficient HEK293 cells for high yield of therapeutic glycoproteins. <i>Journal of Bioscience and Bioengineering</i> , 2019, 128, 487-494.	2.2	11
44	Yeast Dop1 is required for glycosyltransferase retrieval from the trans-Golgi network. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 1147-1157.	2.4	4
45	Folate-conjugated, mesoporous silica functionalized boron nitride nanospheres for targeted delivery of doxorubicin. <i>Materials Science and Engineering C</i> , 2019, 96, 552-560.	7.3	29
46	Genetic disruption of multiple $\alpha$ 1,2-mannosidases generates mammalian cells producing recombinant proteins with high-mannose type N-glycans. <i>Journal of Biological Chemistry</i> , 2018, 293, 5572-5584.	3.4	30
47	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.	1.7	4
48	Construction of green fluorescence protein mutant to monitor STT3B-dependent N-glycosylation. <i>FEBS Journal</i> , 2018, 285, 915-928.	4.7	6
49	N-Glycan dependent protein folding and endoplasmic reticulum retention regulate GPI-anchor processing. <i>Journal of Cell Biology</i> , 2018, 217, 585-599.	5.2	51
50	Alternative routes for synthesis of N-linked glycans by Alg2 mannosyltransferase. <i>FASEB Journal</i> , 2018, 32, 2492-2506.	0.5	15
51	PER1, GLUP1 and CWH43 of methylotrophic yeast <i>Ogataea minuta</i> are involved in cell wall integrity. <i>Yeast</i> , 2018, 35, 225-236.	1.7	5
52	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.	1.7	2
53	Approaches towards the core pentasaccharide in N-linked glycans. <i>Chinese Chemical Letters</i> , 2018, 29, 35-39.	9.0	5
54	Structural modeling and mutagenesis of endo- $\beta$ -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.	2.2	2

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55	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.	2.5	10
56	pH-responsive charge-reversal polymer-functionalized boron nitride nanospheres for intracellular doxorubicin delivery. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 641-652.	6.7	43
57	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.	1.3	2
58	Identification and characterization of transcriptional control region of the human beta 1,4-mannosyltransferase gene. <i>Cytotechnology</i> , 2017, 69, 417-434.	1.6	1
59	Nanodelivery systems for enhancing the immunostimulatory effect of CpG oligodeoxynucleotides. <i>Materials Science and Engineering C</i> , 2017, 70, 935-946.	7.3	60
60	Molecular switching system using glycosylphosphatidylinositol to select cells highly expressing recombinant proteins. <i>Scientific Reports</i> , 2017, 7, 4033.	3.3	11
61	Yeast cells as an assay system for in vivo O-GlcNAc modification. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 1159-1167.	2.4	10
62	Production of encapsulated creatinase using yeast spores. <i>Bioengineered</i> , 2017, 8, 411-419.	3.2	5
63	Graphene oxide-chitosan nanocomposites for intracellular delivery of immunostimulatory CpG oligodeoxynucleotides. <i>Materials Science and Engineering C</i> , 2017, 73, 144-151.	7.3	63
64	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.	2.1	9
65	Recent advances in the synthesis of rare sugars using DHAP-dependent aldolases. <i>Carbohydrate Research</i> , 2017, 452, 108-115.	2.3	24
66	Glucan synthesis-associated genes are required for proper spore wall formation in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2017, 34, 431-446.	1.7	12
67	In vitro reconstitution of the yeast spore wall dityrosine layer discloses the mechanism of its assembly. <i>Journal of Biological Chemistry</i> , 2017, 292, 15880-15891.	3.4	8
68	Consecutive hydrolysis of creatinine using creatininase and creatinase encapsulated in <i>Saccharomyces cerevisiae</i> spores. <i>Biotechnology Letters</i> , 2017, 39, 261-267.	2.2	2
69	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.	2.4	17
70	Chitosan-Functionalized Graphene Oxide as a Potential Immunoadjuvant. <i>Nanomaterials</i> , 2017, 7, 59.	4.1	73
71	Folate-conjugated boron nitride nanospheres for targeted delivery of anticancer drug. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 4573-4582.	6.7	52
72	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.	4.0	14

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73	The Dysferlin Domain-Only Protein, Spo73, Is Required for Prospore Membrane Extension in <i>Saccharomyces cerevisiae</i> . <i>MSphere</i> , 2016, 1, .	2.9	10
74	Synthesis of Rare Pentoses Using Microbial and Enzymatic Reactions. <i>Current Organic Chemistry</i> , 2016, 20, 1456-1464.	1.6	11
75	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.	6.7	30
76	Genome-Wide Screening of Genes Required for Glycosylphosphatidylinositol Biosynthesis. <i>PLoS ONE</i> , 2015, 10, e0138553.	2.5	19
77	Yeast cell-based analysis of human lactate dehydrogenase isoforms. <i>Journal of Biochemistry</i> , 2015, 158, mvv061.	1.7	10
78	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, 504-507.	2.2	6
79	Bioconversion of <i>D</i> -glucose to <i>D</i> -psicose with immobilized <i>D</i> -xylose isomerase and <i>D</i> -psicose 3-epimerase on <i>Saccharomyces cerevisiae</i> spores. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2015, 42, 1117-1128.	3.0	49
80	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, 3980-3983.	2.2	10
81	Glycan-Mediated Protein Transport from the Endoplasmic Reticulum. , 2015, , 21-34.		0
82	Use of Yeast Spores for Microencapsulation of Enzymes. <i>Applied and Environmental Microbiology</i> , 2014, 80, 4502-4510.	3.1	19
83	Applied Usage of Yeast Spores as Chitosan Beads. <i>Applied and Environmental Microbiology</i> , 2014, 80, 5098-5105.	3.1	20
84	Heterodimeric Alg13/Alg14 UDP-GlcNAc Transferase (ALG13,14). , 2014, , 1231-1238.		0
85	Dolichyl-Phosphate (UDP-N-Acetylglucosamine) N-Acetylglucosaminephospho transferase 1 (GlcNAc-1-P) Tj ETQq1 1 0.784314 rgBT /0		
86	Alg14 organizes the formation of a multiglycosyltransferase complex involved in initiation of lipid-linked oligosaccharide biosynthesis. <i>Glycobiology</i> , 2012, 22, 504-516.	2.5	44
87	Physical Interactions among Human Glycosyltransferases Involved in Dolichol-Linked Oligosaccharide Biosynthesis. <i>Trends in Glycoscience and Glycotechnology</i> , 2012, 24, 65-77.	0.1	5
88	A Strategy for Neuraminidase Inhibitors Using Mechanism-Based Labeling Information. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1048-1056.	3.3	10
89	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, 847-856.	4.1	25
90	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, 1027-1037.	3.4	11

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91	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, 32534-32541.	3.4	42
92	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, 2169-2178.	2.1	18
93	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, 36254-36262.	3.4	102
94	Physical interactions between the Alg1, Alg2, and Alg11 mannosyltransferases of the endoplasmic reticulum. <i>Glycobiology</i> , 2004, 14, 559-570.	2.5	70