Zhang Yang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4672739/publications.pdf

Version: 2024-02-01

43 papers	2,993 citations	201674 27 h-index	254184 43 g-index
43 all docs	43 docs citations	43 times ranked	5292 citing authors

#	Article	IF	Citations
1	SARS-CoV-2 Infection Depends on Cellular Heparan Sulfate and ACE2. Cell, 2020, 183, 1043-1057.e15.	28.9	860
2	Engineered CHO cells for production of diverse, homogeneous glycoproteins. Nature Biotechnology, 2015, 33, 842-844.	17.5	213
3	An Atlas of Human Glycosylation Pathways Enables Display of the Human Glycome by Gene Engineered Cells. Molecular Cell, 2019, 75, 394-407.e5.	9.7	181
4	Fast and sensitive detection of indels induced by precise gene targeting. Nucleic Acids Research, 2015, 43, e59-e59.	14.5	151
5	The GAGOme: a cell-based library of displayed glycosaminoglycans. Nature Methods, 2018, 15, 881-888.	19.0	113
6	Genome editing using FACS enrichment of nuclease-expressing cells and indel detection by amplicon analysis. Nature Protocols, 2017, 12, 581-603.	12.0	103
7	Probing the binding specificities of human Siglecs by cell-based glycan arrays. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	83
8	A Combined Zinc/Cadmium Sensor and Zinc/Cadmium Export Regulator in a Heavy Metal Pump. Journal of Biological Chemistry, 2010, 285, 31243-31252.	3.4	73
9	Unfractionated heparin inhibits live wild type SARSâ€CoVâ€2 cell infectivity at therapeutically relevant concentrations. British Journal of Pharmacology, 2021, 178, 626-635.	5.4	73
10	The GalNAc-type O-Glycoproteome of CHO Cells Characterized by the SimpleCell Strategy. Molecular and Cellular Proteomics, 2014, 13, 3224-3235.	3.8	72
11	High-efficiency genome editing via 2A-coupled co-expression of fluorescent proteins and zinc finger nucleases or CRISPR/Cas9 nickase pairs. Nucleic Acids Research, 2014, 42, e84-e84.	14.5	71
12	Direct quality control of glycoengineered erythropoietin variants. Nature Communications, 2018, 9, 3342.	12.8	71
13	A validated gRNA library for CRISPR/Cas9 targeting of the human glycosyltransferase genome. Glycobiology, 2018, 28, 295-305.	2.5	70
14	Galectin binding to cells and glycoproteins with genetically modified glycosylation reveals galectinâ€“glycan specificities in a natural context. Journal of Biological Chemistry, 2018, 293, 20249-20262.	3.4	67
15	Synthetic Heparan Sulfate Mimetic Pixatimod (PG545) Potently Inhibits SARS-CoV-2 by Disrupting the Spikeâ€“ACE2 Interaction. ACS Central Science, 2022, 8, 527-545.	11.3	62
16	Genetic glycoengineering in mammalian cells. Journal of Biological Chemistry, 2021, 296, 100448.	3.4	53
17	Engineering Mammalian Mucin-type O-Glycosylation in Plants*. Journal of Biological Chemistry, 2012, 287, 11911-11923.	3.4	52
18	INDEL detection, the â€˜Achilles heelâ€™ of precise genome editing: a survey of methods for accurate profiling of gene editing induced indels. Nucleic Acids Research, 2020, 48, 11958-11981.	14.5	51

#	Article	IF	Citations
19	The glycosylation design space for recombinant lysosomal replacement enzymes produced in CHO cells. Nature Communications, 2019, 10, 1785.	12.8	49
20	Low Density Lipoprotein Receptor Class A Repeats Are O-Glycosylated in Linker Regions. Journal of Biological Chemistry, 2014, 289, 17312-17324.	3.4	46
21	Characterization of Binding Epitopes of CA125 Monoclonal Antibodies. Journal of Proteome Research, 2014, 13, 3349-3359.	3.7	42
22	Mammalian O-mannosylation of cadherins and plexins is independent of protein O-mannosyltransferases 1 and 2. Journal of Biological Chemistry, 2017, 292, 11586-11598.	3.4	39
23	Targeted Analysis of Lysosomal Directed Proteins and Their Sites of Mannose-6-phosphate Modification. Molecular and Cellular Proteomics, 2019, 18, 16-27.	3.8	36
24	Evidence of a putative glycosaminoglycan binding site on the glycosylated SARS-CoV-2 spike protein N-terminal domain. Computational and Structural Biotechnology Journal, 2021, 19, 2806-2818.	4.1	33
25	Toward Stable Genetic Engineering of Human O-Glycosylation in Plants Â Â Â. Plant Physiology, 2012, 160, 450-463.	4.8	31
26	The Hyperlipidaemic Drug Fenofibrate Significantly Reduces Infection by SARS-CoV-2 in Cell Culture Models. Frontiers in Pharmacology, 2021, 12, 660490.	3.5	31
27	Glycoengineering design options for IgG1 in CHO cells using precise gene editing. Glycobiology, 2018, 28, 542-549.	2.5	30
28	Identification and evolution of a plant cell wall specific glycoprotein glycosyl transferase, ExAD. Scientific Reports, 2017, 7, 45341.	3.3	29
29	EDEM1's mannosidase-like domain binds ERAD client proteins in a redox-sensitive manner and possesses catalytic activity. Journal of Biological Chemistry, 2018, 293, 13932-13945.	3.4	29
30	Assay and heterologous expression in Pichia pastoris of plant cell wall type-II membrane anchored glycosyltransferases. Glycoconjugate Journal, 2009, 26, 1235-1246.	2.7	25
31	FUT8-Directed Core Fucosylation of N-glycans Is Regulated by the Glycan Structure and Protein Environment. ACS Catalysis, 2021, 11, 9052-9065.	11.2	25
32	Dissecting structure-function of 3-O-sulfated heparin and engineered heparan sulfates. Science Advances, 2021, 7, eabl6026.	10.3	23
33	Improved CRISPR/Cas9 gene editing by fluorescence activated cell sorting of green fluorescence protein tagged protoplasts. BMC Biotechnology, 2019, 19, 36.	3.3	22
34	Activity of N-acylneuraminate-9-phosphatase (NANP) is not essential for de novo sialic acid biosynthesis. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 1471-1479.	2.4	18
35	A validated collection of mouse monoclonal antibodies to human glycosyltransferases functioning in mucin-type O-glycosylation. Glycobiology, 2019, 29, 645-656.	2.5	16
36	The C-terminal peptide of CCL21 drastically augments CCL21 activity through the dendritic cell lymph node homing receptor CCR7 by interaction with the receptor N-terminus. Cellular and Molecular Life Sciences, 2021, 78, 6963-6978.	5.4	11

#	Article	IF	Citations
37	Strategies for Efficient Gene Editing in Protoplasts of Solanum tuberosum Theme: Determining gRNA Efficiency Design by Utilizing Protoplast (Research). Frontiers in Genome Editing, 2021, 3, 795644.	5.2	8
38	Structural basis for the synthesis of the core 1 structure by C1GalT1. Nature Communications, 2022, 13, 2398.	12.8	8
39	Engineering mammalian cells to produce plant-specific N-glycosylation on proteins. Glycobiology, 2020, 30, 528-538.	2.5	6
40	Installation of O-glycan sulfation capacities in human HEK293Âcells for display of sulfated mucins. Journal of Biological Chemistry, 2022, 298, 101382.	3.4	6
41	Development of a bispecific immune engager using a recombinant malaria protein. Cell Death and Disease, 2021, 12, 353.	6.3	5
42	Fast and Quantitative Identification of Ex Vivo Precise Genome Targeting-Induced Indel Events by IDAA. Methods in Molecular Biology, 2019, 1961, 45-66.	0.9	3
43	Selective Boosting of CCR7-Acting Chemokines; Short Peptides Boost Chemokines with Short Basic Tails, Longer Peptides Boost Chemokines with Long Basic Tails. International Journal of Molecular Sciences, 2022, 23, 1397.	4.1	3