

Johannes Stadlmann

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

5,548
citations

71102

41
h-index

118850

62
g-index

69
all docs

69
docs citations

69
times ranked

5850
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of glycoengineered <i>Nicotiana benthamiana</i> for the production of monoclonal antibodies with a homogeneous human-like <i>N</i> -glycan structure. <i>Plant Biotechnology Journal</i> , 2008, 6, 392-402.	8.3	458
2	MS Amanda, a Universal Identification Algorithm Optimized for High Accuracy Tandem Mass Spectra. <i>Journal of Proteome Research</i> , 2014, 13, 3679-3684.	3.7	416
3	Analysis of immunoglobulin glycosylation by LC-ESI-MS of glycopeptides and oligosaccharides. <i>Proteomics</i> , 2008, 8, 2858-2871.	2.2	294
4	Mass + Retention Time = Structure: A Strategy for the Analysis of N-Glycans by Carbon LC-ESI-MS and Its Application to Fibrin N-Glycans. <i>Analytical Chemistry</i> , 2007, 79, 5051-5057.	6.5	193
5	In Planta Protein Sialylation through Overexpression of the Respective Mammalian Pathway. <i>Journal of Biological Chemistry</i> , 2010, 285, 15923-15930.	3.4	193
6	Genome, secretome and glucose transport highlight unique features of the protein production host <i>Pichia pastoris</i> . <i>Microbial Cell Factories</i> , 2009, 8, 29.	4.0	189
7	Production of a monoclonal antibody in plants with a humanized <i>N</i> -glycosylation pattern. <i>Plant Biotechnology Journal</i> , 2007, 5, 657-663.	8.3	179
8	The Effect of Temperature on the Proteome of Recombinant <i>Pichia pastoris</i> . <i>Journal of Proteome Research</i> , 2009, 8, 1380-1392.	3.7	170
9	Recombinant antibody 2G12 produced in maize endosperm efficiently neutralizes HIV-1 and contains predominantly single-GlcNAc <i>N</i> -glycans. <i>Plant Biotechnology Journal</i> , 2008, 6, 189-201.	8.3	166
10	A Unique β 1,3-Galactosyltransferase Is Indispensable for the Biosynthesis of <i>N</i> -Glycans Containing Lewis a Structures in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2007, 19, 2278-2292.	6.6	157
11	Improved Virus Neutralization by Plant-produced Anti-HIV Antibodies with a Homogeneous β 1,4-Galactosylated N-Glycan Profile. <i>Journal of Biological Chemistry</i> , 2009, 284, 20479-20485.	3.4	156
12	Cost-effective production of a vaginal protein microbicide to prevent HIV transmission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 3727-3732.	7.1	154
13	A multi-level study of recombinant <i>Pichia pastoris</i> in different oxygen conditions. <i>BMC Systems Biology</i> , 2010, 4, 141.	3.0	136
14	<i>Trichomonas vaginalis</i> : metronidazole and other nitroimidazole drugs are reduced by the flavin enzyme thioredoxin reductase and disrupt the cellular redox system. Implications for nitroimidazole toxicity and resistance. <i>Molecular Microbiology</i> , 2009, 72, 518-536.	2.5	125
15	Aberrant localization and underglycosylation of highly accumulating single-chain Fv-Fc antibodies in transgenic <i>Arabidopsis</i> seeds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 1430-1435.	7.1	116
16	Comparative glycoproteomics of stem cells identifies new players in ricin toxicity. <i>Nature</i> , 2017, 549, 538-542.	27.8	110
17	Biochemical and functional characterization of anti-HIV antibody-ELP fusion proteins from transgenic plants. <i>Plant Biotechnology Journal</i> , 2008, 6, 379-391.	8.3	109
18	Affinity of IgE and IgG against cross-reactive carbohydrate determinants on plant and insect glycoproteins. <i>Journal of Allergy and Clinical Immunology</i> , 2008, 121, 185-190.e2.	2.9	97

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19	Immunoglobulin G Fc N-glycan profiling in patients with gastric cancer by LC-ESI-MS: relation to tumor progression and survival. <i>Glycoconjugate Journal</i> , 2012, 29, 57-66.	2.7	94
20	Molecular basis of N-acetylglucosaminyltransferase I deficiency in <i>Arabidopsis thaliana</i> plants lacking complex N-glycans. <i>Biochemical Journal</i> , 2005, 387, 385-391.	3.7	89
21	A close look at human IgG sialylation and subclass distribution after lectin fractionation. <i>Proteomics</i> , 2009, 9, 4143-4153.	2.2	89
22	In vivo glyco-engineered antibody with improved lytic potential produced by an innovative non-mammalian expression system. <i>Biotechnology Journal</i> , 2007, 2, 700-708.	3.5	88
23	Influence of elastin-like peptide fusions on the quantity and quality of a tobacco-derived human immunodeficiency virus-neutralizing antibody. <i>Plant Biotechnology Journal</i> , 2009, 7, 899-913.	8.3	88
24	Arginine/Lysine Residues in the Cytoplasmic Tail Promote ER Export of Plant Glycosylation Enzymes. <i>Traffic</i> , 2009, 10, 101-115.	2.7	84
25	Development of rhizosecretion as a production system for recombinant proteins from hydroponic cultivated tobacco. <i>FASEB Journal</i> , 2009, 23, 3581-3589.	0.5	83
26	Regulation of Gene Expression through a Transcriptional Repressor that Senses Acyl-Chain Length in Membrane Phospholipids. <i>Developmental Cell</i> , 2014, 29, 729-739.	7.0	78
27	A New Allergen from Ragweed (<i>Ambrosia artemisiifolia</i>) with Homology to Art v 1 from Mugwort. <i>Journal of Biological Chemistry</i> , 2010, 285, 27192-27200.	3.4	77
28	The response to unfolded protein is involved in osmotolerance of <i>Pichia pastoris</i> . <i>BMC Genomics</i> , 2010, 11, 207.	2.8	74
29	Optimal nitrogen supply as a key to increased and sustained production of a monoclonal full-size antibody in BY-2 suspension culture. <i>Biotechnology and Bioengineering</i> , 2010, 107, 278-289.	3.3	74
30	Community evaluation of glycoproteomics informatics solutions reveals high-performance search strategies for serum glycopeptide analysis. <i>Nature Methods</i> , 2021, 18, 1304-1316.	19.0	74
31	Glycoproteomic characterization of butyrylcholinesterase from human plasma. <i>Proteomics</i> , 2008, 8, 254-263.	2.2	73
32	Rapid Transient Production in Plants by Replicating and Non-Replicating Vectors Yields High Quality Functional Anti-HIV Antibody. <i>PLoS ONE</i> , 2010, 5, e13976.	2.5	73
33	Different subcellular localization and glycosylation for a functional antibody expressed in <i>Nicotiana tabacum</i> plants and suspension cells. <i>Transgenic Research</i> , 2009, 18, 467-482.	2.4	68
34	A synthetic peptide library for benchmarking crosslinking-mass spectrometry search engines for proteins and protein complexes. <i>Nature Communications</i> , 2020, 11, 742.	12.8	62
35	Glycan profiles of the 27 N-glycosylation sites of the HIV envelope protein CN54gp140. <i>Biological Chemistry</i> , 2012, 393, 719-730.	2.5	61
36	Analytical and Functional Aspects of Antibody Sialylation. <i>Journal of Clinical Immunology</i> , 2010, 30, 15-19.	3.8	59

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37	Expression and Characterization of an Iron-Regulated Hemin-Binding Protein, HbpA, from <i>Leptospira interrogans</i> Serovar Lai. <i>Infection and Immunity</i> , 2007, 75, 4582-4591.	2.2	58
38	Improved Sensitivity in Low-Input Proteomics Using Micropillar Array-Based Chromatography. <i>Analytical Chemistry</i> , 2019, 91, 14203-14207.	6.5	57
39	Stabilisation of the Fc Fragment of Human IgG1 by Engineered Intradomain Disulfide Bonds. <i>PLoS ONE</i> , 2012, 7, e30083.	2.5	51
40	A gene responsible for prolyl-hydroxylation of moss-produced recombinant human erythropoietin. <i>Scientific Reports</i> , 2013, 3, 3019.	3.3	50
41	Jagunal homolog 1 is a critical regulator of neutrophil function in fungal host defense. <i>Nature Genetics</i> , 2014, 46, 1028-1033.	21.4	49
42	Identification of lectin receptors for conserved SARS-CoV-2 glycosylation sites. <i>EMBO Journal</i> , 2021, 40, e108375.	7.8	44
43	The Changing Fate of a Secretory Glycoprotein in Developing Maize Endosperm. <i>Plant Physiology</i> , 2010, 153, 693-702.	4.8	40
44	Plant species and organ influence the structure and subcellular localization of recombinant glycoproteins. <i>Plant Molecular Biology</i> , 2013, 83, 105-117.	3.9	37
45	Clinical grade ACE2 as a universal agent to block SARS-CoV-2 variants. <i>EMBO Molecular Medicine</i> , 2022, 14, .	6.9	35
46	Intracellular interactome of secreted antibody Fab fragment in <i>Pichia pastoris</i> reveals its routes of secretion and degradation. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 2503-2512.	3.6	33
47	Cellular repressor of E1A-stimulated genes is a bona fide lysosomal protein which undergoes proteolytic maturation during its biosynthesis. <i>Experimental Cell Research</i> , 2008, 314, 3036-3047.	2.6	31
48	Viral and murine interleukin-10 are correctly processed and retain their biological activity when produced in tobacco. <i>BMC Biotechnology</i> , 2009, 9, 22.	3.3	30
49	Structure-guided glyco-engineering of ACE2 for improved potency as soluble SARS-CoV-2 decoy receptor. <i>ELife</i> , 2021, 10, .	6.0	29
50	Generation of enzymatically competent SARS-CoV-2 decoy receptor ACE2-Fc in glycoengineered <i>Nicotiana benthamiana</i> . <i>Biotechnology Journal</i> , 2021, 16, e2000566.	3.5	26
51	Intracellular catalase/peroxidase from the phytopathogenic rice blast fungus <i>Magnaporthe grisea</i> : expression analysis and biochemical characterization of the recombinant protein. <i>Biochemical Journal</i> , 2009, 418, 443-451.	3.7	24
52	The two endo- β -N-acetylglucosaminidase genes from <i>Arabidopsis thaliana</i> encode cytoplasmic enzymes controlling free N-glycan levels. <i>Plant Molecular Biology</i> , 2011, 77, 275-284.	3.9	22
53	Isolation and Characterization of a Thionin Proprotein-processing Enzyme from Barley. <i>Journal of Biological Chemistry</i> , 2015, 290, 18056-18067.	3.4	22
54	Analysis of PNGase F-Resistant N-Glycopeptides Using SugarQb for Proteome Discoverer 2.1 Reveals Cryptic Substrate Specificities. <i>Proteomics</i> , 2018, 18, e1700436.	2.2	21

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55	A vital sugar code for ricin toxicity. Cell Research, 2017, 27, 1351-1364.	12.0	20
56	Comparative Proteome Signatures of Trace Samples by Multiplexed Data-Independent Acquisition. Molecular and Cellular Proteomics, 2022, 21, 100177.	3.8	20
57	A crucial role for Jagunal homolog 1 in humoral immunity and antibody glycosylation in mice and humans. Journal of Experimental Medicine, 2021, 218, .	8.5	11
58	N-Glycosylation of Plant Recombinant Pharmaceuticals. Methods in Molecular Biology, 2009, 483, 239-264.	0.9	9
59	GLYCO-PROTEOMIC ASSESSMENT OF IGG AND ALPHA1-PROTEINASE INHIBITOR (A1PI) FROM A CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD) PATIENT IN PLASMA AND BRONCHOALVEOLAR LAVAGE FLUID. Chest, 2006, 130, 173S.	0.8	1
60	Topological transformation of liposomes by a membrane-affecting domain of recombinant human erythropoietin. Journal of Liposome Research, 2010, 20, 24-30.	3.3	1