

Herta Steinkellner

List of Publications by Year in descending order

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98
papers

7,638
citations

41344

49
h-index

53230

85
g-index

102
all docs

102
docs citations

102
times ranked

4822
citing authors

#	ARTICLE	IF	CITATIONS
1	Reply to Pandey: Possible functional impact of IgG3 allotype constant region. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	1
2	Identification of two subtilisinâ€like serine proteases engaged in the degradation of recombinant proteins in <i>NicotianaÂbenthamiana</i>. FEBS Letters, 2021, 595, 379-388.	2.8	12
3	Highly active engineered IgG3 antibodies against SARS-CoV-2. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	48
4	Increased in vitro neutralizing activity of SARS-CoV-2 IgA1 dimers compared to monomers and IgG. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	37
5	<i>In vitro and in vivo</i> efficacy of antiâ€chikungunya virus monoclonal antibodies produced in wildâ€type and glycoengineered <i>Nicotiana benthamiana</i> plants. Plant Biotechnology Journal, 2020, 18, 266-273.	8.3	46
6	Steric Accessibility of the Cleavage Sites Dictates the Proteolytic Vulnerability of the Antiâ€HIVâ€1 Antibodies 2F5, 2G12, and PG9 in Plants. Biotechnology Journal, 2020, 15, e1900308.	3.5	10
7	Expression Profiling and Glycan Engineering of IgG Subclass 1â€4 in Nicotiana benthamiana. Frontiers in Bioengineering and Biotechnology, 2020, 8, 825.	4.1	12
8	Plant-based production of highly potent anti-HIV antibodies with engineered posttranslational modifications. Scientific Reports, 2020, 10, 6201.	3.3	22
9	AllergoOncology: Expression platform development and functional profiling of an antiâ€HER2 IgE antibody. Allergy: European Journal of Allergy and Clinical Immunology, 2019, 74, 1985-1989.	5.7	14
10	In Planta Glycan Engineering and Functional Activities of IgE Antibodies. Frontiers in Bioengineering and Biotechnology, 2019, 7, 242.	4.1	19
11	An oligosaccharyltransferase from <i>Leishmania major</i> increases the Nâ€glycan occupancy on recombinant glycoproteins produced in <i>Nicotiana benthamiana</i>. Plant Biotechnology Journal, 2018, 16, 1700-1709.	8.3	54
12	Promoter Choice Impacts the Efficiency of Plant Glycoâ€Engineering. Biotechnology Journal, 2018, 13, 1700380.	3.5	17
13	Advanced Plant-Based Glycan Engineering. Frontiers in Bioengineering and Biotechnology, 2018, 6, 81.	4.1	101
14	Recombinant plant-derived human IgE glycoproteomics. Journal of Proteomics, 2017, 161, 81-87.	2.4	16
15	Therapeutic treatment of Marburg and Ravn virus infection in nonhuman primates with a human monoclonal antibody. Science Translational Medicine, 2017, 9, .	12.4	64
16	Reduced paucimannosidic <i>N</i>-glycan formation by suppression of a specific Î²â€hexosaminidase from <i>Nicotiana benthamiana</i>. Plant Biotechnology Journal, 2017, 15, 197-206.	8.3	46
17	Plant-produced anti-dengue virus monoclonal antibodies exhibit reduced antibody-dependent enhancement of infection activity. Journal of General Virology, 2016, 97, 3280-3290.	2.9	53
18	Transient Glyco-Engineering to Produce Recombinant IgA1 with Defined N- and O-Glycans in Plants. Frontiers in Plant Science, 2016, 7, 18.	3.6	63

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19	Vacuolar targeting of recombinant antibodies in <i>Nicotiana benthamiana</i> . <i>Plant Biotechnology Journal</i> , 2016, 14, 2265-2275.	8.3	20
20	Production of a tumour-targeting antibody with a human-compatible glycosylation profile in <i>N. benthamiana</i> hairy root cultures. <i>Biotechnology Journal</i> , 2016, 11, 1209-1220.	3.5	29
21	Monoclonal antibody therapy for Junin virus infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4458-4463.	7.1	50
22	Engineering of complex protein sialylation in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9498-9503.	7.1	88
23	Transient Expression of Mammalian Genes in <i>N. benthamiana</i> to Modulate N-Glycosylation. <i>Methods in Molecular Biology</i> , 2016, 1385, 99-113.	0.9	6
24	Efficient In Vitro and In Vivo Activity of Glyco-Engineered Plant-Produced Rabies Monoclonal Antibodies E559 and 62-71-3. <i>PLoS ONE</i> , 2016, 11, e0159313.	2.5	19
25	Glycosylation of plant produced human antibodies. <i>Human Antibodies</i> , 2015, 23, 45-48.	1.5	11
26	Characterization of plants expressing the human β 1,4-galactosyltransferase gene. <i>Plant Physiology and Biochemistry</i> , 2015, 92, 39-47.	5.8	32
27	Glycan modulation and sulfoengineering of anti-HIV-1 monoclonal antibody PG9 in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12675-12680.	7.1	44
28	Processing of complex N-glycans in IgG Fc-region is affected by core fucosylation. <i>MAbs</i> , 2015, 7, 863-870.	5.2	50
29	N-Glyco-Engineering in Plants: Update on Strategies and Major Achievements. <i>Methods in Molecular Biology</i> , 2015, 1321, 195-212.	0.9	15
30	Generation and Analysis of Novel Plant-Derived Antibody-Based Therapeutic Molecules against West Nile Virus. <i>PLoS ONE</i> , 2014, 9, e93541.	2.5	53
31	In vivo and in vitro activity of an immunoglobulin Fc fragment (Fcab) with engineered Her2/neu binding sites. <i>Biotechnology Journal</i> , 2014, 9, 844-851.	3.5	14
32	Plant glyco-biotechnology on the way to synthetic biology. <i>Frontiers in Plant Science</i> , 2014, 5, 523.	3.6	47
33	Proteolytic and N-Glycan Processing of Human α 1-Antitrypsin Expressed in <i>Nicotiana benthamiana</i> . <i>Plant Physiology</i> , 2014, 166, 1839-1851.	4.8	55
34	Expression of human butyrylcholinesterase with an engineered glycosylation profile resembling the plasma-derived orthologue. <i>Biotechnology Journal</i> , 2014, 9, 501-510.	3.5	39
35	The human anti-HIV antibodies 2F5, 2G12, and PG9 differ in their susceptibility to proteolytic degradation: Down-regulation of endogenous serine and cysteine proteinase activities could improve antibody production in plant-based expression platforms. <i>Biotechnology Journal</i> , 2014, 9, 493-500.	3.5	59
36	Expression and glycoengineering of functionally active heteromultimeric IgM in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6263-6268.	7.1	77

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37	Oligomerization status influences subcellular deposition and glycosylation of recombinant butyrylcholinesterase in <i>Nicotiana benthamiana</i> . <i>Plant Biotechnology Journal</i> , 2014, 12, 832-839.	8.3	34
38	Controlled glycosylation of plant-produced recombinant proteins. <i>Current Opinion in Biotechnology</i> , 2014, 30, 95-100.	6.6	88
39	Expression of functionally active sialylated human erythropoietin in plants. <i>Biotechnology Journal</i> , 2013, 8, 371-382.	3.5	46
40	N-Glycosylation of Plant-produced Recombinant Proteins. <i>Current Pharmaceutical Design</i> , 2013, 19, 5503-5512.	1.9	101
41	Generation of Biologically Active Multi-Sialylated Recombinant Human EPOFc in Plants. <i>PLoS ONE</i> , 2013, 8, e54836.	2.5	66
42	Significant Impact of Single N-Glycan Residues on the Biological Activity of Fc-based Antibody-like Fragments. <i>Journal of Biological Chemistry</i> , 2012, 287, 24313-24319.	3.4	26
43	Engineering of Sialylated Mucin-type O-Glycosylation in Plants. <i>Journal of Biological Chemistry</i> , 2012, 287, 36518-36526.	3.4	77
44	IgG-Fc glycoengineering in non-mammalian expression hosts. <i>Archives of Biochemistry and Biophysics</i> , 2012, 526, 167-173.	3.0	56
45	Glycoengineering in plants to produce human-like N-glycan structures. <i>Biotechnology Journal</i> , 2012, 7, 1088-1098.	3.5	81
46	Enhanced potency of a fucose-free monoclonal antibody being developed as an Ebola virus immunoprotectant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20690-20694.	7.1	210
47	N-Glycosylation engineering of plants for the biosynthesis of glycoproteins with bisected and branched complex N-glycans. <i>Glycobiology</i> , 2011, 21, 813-823.	2.5	120
48	Production of monoclonal antibodies with a controlled N-glycosylation pattern in seeds of <i>Arabidopsis thaliana</i> . <i>Plant Biotechnology Journal</i> , 2011, 9, 179-192.	8.3	50
49	Expression of Antibody Fragments with a Controlled N-Glycosylation Pattern and Induction of Endoplasmic Reticulum-Derived Vesicles in Seeds of <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2011, 155, 2036-2048.	4.8	50
50	Rapid High Yield Production of Different Glycoforms of Ebola Virus Monoclonal Antibody. <i>PLoS ONE</i> , 2011, 6, e26040.	2.5	61
51	Sequential Depletion and Acquisition of Proteins during Golgi Stack Disassembly and Reformation. <i>Traffic</i> , 2010, 11, 1429-1444.	2.7	40
52	Fc-Glycosylation Influences Fc γ 3 Receptor Binding and Cell-Mediated Anti-HIV Activity of Monoclonal Antibody 2G12. <i>Journal of Immunology</i> , 2010, 185, 6876-6882.	0.8	138
53	In Planta Protein Sialylation through Overexpression of the Respective Mammalian Pathway. <i>Journal of Biological Chemistry</i> , 2010, 285, 15923-15930.	3.4	193
54	Arginine/Lysine Residues in the Cytoplasmic Tail Promote ER Export of Plant Glycosylation Enzymes. <i>Traffic</i> , 2009, 10, 101-115.	2.7	84

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55	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
56	Generation of glycoengineered <i>Nicotiana benthamiana</i> for the production of monoclonal antibodies with a homogeneous human-like N-glycan structure. <i>Plant Biotechnology Journal</i> , 2008, 6, 392-402.	8.3	458
57	Construction of a Functional CMP-Sialic Acid Biosynthesis Pathway in Arabidopsis. <i>Plant Physiology</i> , 2008, 147, 331-339.	4.8	74
58	Enzymatic Properties and Subcellular Localization of Arabidopsis β -N-Acetylhexosaminidases. <i>Plant Physiology</i> , 2007, 145, 5-16.	4.8	104
59	A Unique β 1,3-Galactosyltransferase Is Indispensable for the Biosynthesis of N-Glycans Containing Lewis a Structures in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2007, 19, 2278-2292.	6.6	157
60	A plant-derived human monoclonal antibody induces an anti-carbohydrate immune response in rabbits. <i>Glycobiology</i> , 2007, 18, 235-241.	2.5	105
61	Production of a monoclonal antibody in plants with a humanized N-glycosylation pattern. <i>Plant Biotechnology Journal</i> , 2007, 5, 657-663.	8.3	179
62	Molecular cloning and characterization of Arabidopsis thaliana Golgi β -mannosidase II, a key enzyme in the formation of complex N-glycans in plants. <i>Plant Journal</i> , 2006, 45, 789-803.	5.7	105
63	Molecular cloning and heterologous expression of β 1,2-xylosyltransferase and core β 1,3-fucosyltransferase from maize. <i>Phytochemistry</i> , 2006, 67, 2215-2224.	2.9	18
64	Arabidopsis thaliana β 1,2-xylosyltransferase: an unusual glycosyltransferase with the potential to act at multiple stages of the plant N-glycosylation pathway. <i>Biochemical Journal</i> , 2005, 388, 515-525.	3.7	57
65	Characterization of (GA) _n Microsatellite Loci from <i>Quercus Robur</i> . <i>Hereditas</i> , 2004, 129, 183-186.	1.4	192
66	Unaltered complex N-glycan profiles in <i>Nicotiana benthamiana</i> despite drastic reduction of β 1,2-N-acetylglucosaminyltransferase I activity. <i>Glycoconjugate Journal</i> , 2004, 21, 275-282.	2.7	22
67	Generation of Arabidopsis thaliana plants with complex N-glycans lacking β 1,2-linked xylose and core β 1,3-linked fucose. <i>FEBS Letters</i> , 2004, 561, 132-136.	2.8	281
68	Plant-based Heterologous Expression of Mal d 2, a Thaumatin-like Protein and Allergen of Apple (<i>Malus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 721-730.	4.2	129
69	The Golgi localization of Arabidopsis thaliana beta1,2-xylosyltransferase in plant cells is dependent on its cytoplasmic and transmembrane sequences. <i>Plant Molecular Biology</i> , 2002, 50, 273-281.	3.9	29
70	Secretion of biologically active glycoforms of bovine follicle stimulating hormone in plants. <i>FEBS Journal</i> , 2001, 268, 4570-4579.	0.2	57
71	Rapid Production of Recombinant Allergens in <i>Nicotiana benthamiana</i> and Their Impact on Diagnosis and Therapy. <i>International Archives of Allergy and Immunology</i> , 2001, 124, 48-50.	2.1	24
72	Partial sequence identification of grapevine-leafroll-associated virus-1 and development of a highly sensitive IC-RT-PCR detection method. <i>Journal of Virological Methods</i> , 2000, 86, 101-106.	2.1	32

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73	Microsatellite variability in grapevine cultivars from different European regions and evaluation of assignment testing to assess the geographic origin of cultivars. <i>Theoretical and Applied Genetics</i> , 2000, 100, 498-505.	3.6	249
74	Microsatellite analysis of maternal half-sib families of <i>Quercus robur</i> , pedunculate oak: II. inferring the number of pollen donors from the offspring. <i>Theoretical and Applied Genetics</i> , 2000, 100, 858-865.	3.6	16
75	Rapid production of the major birch pollen allergen Bet v 1 in <i>Nicotiana benthamiana</i> plants and its immunological in vitro and in vivo characterization. <i>FASEB Journal</i> , 2000, 14, 1279-1288.	0.5	42
76	Rapid production of the major birch pollen allergen Bet v 1 in <i>Nicotiana benthamiana</i> plants and its immunological in vitro and in vivo characterization. <i>FASEB Journal</i> , 2000, 14, 1279-1288.	0.5	40
77	Molecular cloning and functional expression of β -1,2-xylosyltransferase cDNA from <i>Arabidopsis thaliana</i> L. <i>FEBS Letters</i> , 2000, 472, 105-108.	2.8	104
78	Molecular cloning and characterization of cDNA coding for β -1,2-N-acetylglucosaminyltransferase I (GlcNAc-TI) from <i>Nicotiana tabacum</i> . <i>Glycobiology</i> , 1999, 9, 779-785.	2.5	81
79	Pollen dispersal inferred from paternity analysis in a mixed oak stand of <i>Quercus robur</i> L. and <i>Q. petraea</i> (Matt.) Liebl.. <i>Molecular Ecology</i> , 1999, 8, 831-841.	3.9	286
80	Molecular cloning of cDNA encoding N-acetylglucosaminyltransferase II from <i>Arabidopsis thaliana</i> . <i>Glycoconjugate Journal</i> , 1999, 16, 787-791.	2.7	50
81	Microsatellite analysis of maternal half-sib families of <i>Quercus robur</i> , pedunculate oak: detection of seed contaminations and inference of the seed parents from the offspring. <i>Theoretical and Applied Genetics</i> , 1999, 99, 185-191.	3.6	19
82	The use of microsatellites for germplasm management in a Portuguese grapevine collection. <i>Theoretical and Applied Genetics</i> , 1999, 99, 733-739.	3.6	113
83	The N-terminal 77 amino acids from tobacco N-acetylglucosaminyltransferase I are sufficient to retain a reporter protein in the Golgi apparatus of <i>Nicotiana benthamiana</i> cells. <i>FEBS Letters</i> , 1999, 453, 169-173.	2.8	51
84	Identification of microsatellite sequences in <i>Vitis riparia</i> and their applicability for genotyping of different <i>Vitis</i> species. <i>Genome</i> , 1999, 42, 367-373.	2.0	160
85	Reconstruction of a grapevine pedigree by microsatellite analysis. <i>Theoretical and Applied Genetics</i> , 1998, 97, 227-231.	3.6	80
86	A genetic linkage map of <i>Quercus robur</i> L. (pedunculate oak) based on RAPD, SCAR, microsatellite, minisatellite, isozyme and 5S rDNA markers. <i>Theoretical and Applied Genetics</i> , 1998, 97, 1090-1103.	3.6	125
87	Within-population genetic structure in <i>Quercus robur</i> L. and <i>Quercus petraea</i> (Matt.) Liebl. assessed with isozymes and microsatellites. <i>Molecular Ecology</i> , 1998, 7, 317-328.	3.9	299
88	Detection of Recombinant Viral Coat Protein in Transgenic Plants. <i>Methods in Biotechnology</i> , 1998, , 65-75.	0.2	1
89	Identification and characterization of (GA/CT) _n -microsatellite loci from <i>Quercus petraea</i> . <i>Plant Molecular Biology</i> , 1997, 33, 1093-1096.	3.9	261
90	Regeneration of transgenic plants of <i>Prunus armeniaca</i> containing the coat protein gene of Plum Pox Virus. <i>Plant Cell Reports</i> , 1992, 11, 25-29.	5.6	138

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91	Coat protein mediated resistance to Plum Pox Virus in <i>Nicotiana clevelandii</i> and <i>N. benthamiana</i> . <i>Plant Cell Reports</i> , 1992, 11, 30-33.	5.6	69
92	Amino-acid sequence comparison of nepovirus coat proteins. <i>Virus Genes</i> , 1992, 6, 197-202.	1.6	15
93	A PCR membrane spot assay for the detection of plum pox virus RNA in bark of infected trees. <i>Journal of Virological Methods</i> , 1991, 31, 139-145.	2.1	66
94	Nucleotide sequence of AMV-capsid protein-gene. <i>Nucleic Acids Research</i> , 1990, 18, 7182-7182.	14.5	10
95	Efficient transformation of <i>Agrobacterium</i> spp. by eletroporation. <i>Nucleic Acids Research</i> , 1989, 17, 6747-6747.	14.5	194
96	Stopping the DNA polymerase activity at a specific site with a dideoxyligonucleotide: selective labelling of single stranded circular DNA. <i>Nucleic Acids Research</i> , 1989, 17, 8384-8384.	14.5	0
97	The high efficiency, human B cell immortalizing heteromyeloma CB-F7. <i>Journal of Immunological Methods</i> , 1988, 106, 257-265.	1.4	115
98	Early screening for anti-plum pox virus monoclonal antibodies with different epitope specificities by means of gold-labelled immunosorbent electron microscopy. <i>Journal of Virological Methods</i> , 1988, 22, 351-357.	2.1	9