

Ann Depicker

List of Publications by Citations

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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.

89
papers

6,686
citations

36
h-index

81
g-index

90
ext. papers

7,561
ext. citations

7.4
avg, IF

5.65
L-index

#	Paper	IF	Citations
89	GATEWAY vectors for Agrobacterium-mediated plant transformation. <i>Trends in Plant Science</i> , 2002 , 7, 193-5	13.1	2693
88	Recombinational cloning with plant gateway vectors. <i>Plant Physiology</i> , 2007 , 145, 1144-54	6.6	289
87	Nanobody-based products as research and diagnostic tools. <i>Trends in Biotechnology</i> , 2014 , 32, 263-70	15.1	262
86	T-DNA integration patterns in co-transformed plant cells suggest that T-DNA repeats originate from co-integration of separate T-DNAs. <i>Plant Journal</i> , 1997 , 11, 15-29	6.9	222
85	Post-transcriptional gene silencing in plants. <i>Current Opinion in Cell Biology</i> , 1997 , 9, 373-82	9	212
84	Assembly of an antibody and its derived antibody fragment in Nicotiana and Arabidopsis. <i>Transgenic Research</i> , 1993 , 2, 227-37	3.3	155
83	Boosting heterologous protein production in transgenic dicotyledonous seeds using Phaseolus vulgaris regulatory sequences. <i>Nature Biotechnology</i> , 2002 , 20, 1265-8	44.5	148
82	Frequencies of simultaneous transformation with different T-DNAs and their relevance to the Agrobacterium/plant cell interaction. <i>Molecular Genetics and Genomics</i> , 1985 , 201, 477-484		126
81	The DNA sequences of T-DNA junctions suggest that complex T-DNA loci are formed by a recombination process resembling T-DNA integration. <i>Plant Journal</i> , 1999 , 20, 295-304	6.9	119
80	Stable high-level transgene expression in Arabidopsis thaliana using gene silencing mutants and matrix attachment regions. <i>Plant Journal</i> , 2004 , 39, 440-9	6.9	117
79	Aberrant localization and underglycosylation of highly accumulating single-chain Fv-Fc antibodies in transgenic Arabidopsis seeds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 1430-5	11.5	109
78	Plants as bioreactors for protein production: avoiding the problem of transgene silencing. <i>Plant Molecular Biology</i> , 2000 , 43, 347-59	4.6	108
77	Characterisation of the Roundup Ready soybean insert. <i>European Food Research and Technology</i> , 2001 , 213, 107-112	3.4	104
76	T-DNA vector backbone sequences are frequently integrated into the genome of transgenic plants obtained by Agrobacterium-mediated transformation. <i>Molecular Breeding</i> , 2000 , 6, 459-468	3.4	104
75	T-DNA integration in Arabidopsis chromosomes. Presence and origin of filler DNA sequences. <i>Plant Physiology</i> , 2003 , 133, 2061-8	6.6	85
74	Orally fed seeds producing designer IgAs protect weaned piglets against enterotoxigenic Escherichia coli infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 11809-14	11.5	82
73	Post-transcriptional silencing of a neomycin phosphotransferase II transgene correlates with the accumulation of unproductive RNAs and with increased cytosine methylation of 3' flanking regions. <i>Plant Journal</i> , 1997 , 12, 379-392	6.9	77

72	Epigenetic switch from posttranscriptional to transcriptional silencing is correlated with promoter hypermethylation. <i>Plant Physiology</i> , 2003 , 133, 1240-50	6.6	70
71	High level accumulation of single-chain variable fragments in the cytosol of transgenic <i>Petunia hybrida</i> . <i>FEBS Journal</i> , 1999 , 259, 426-34		65
70	<i>Agrobacterium tumefaciens</i> transformation and cotransformation frequencies of <i>Arabidopsis thaliana</i> root explants and tobacco protoplasts. <i>Molecular Plant-Microbe Interactions</i> , 1998 , 11, 449-57	3.6	59
69	The T-DNA integration pattern in <i>Arabidopsis</i> transformants is highly determined by the transformed target cell. <i>Plant Journal</i> , 2009 , 60, 134-45	6.9	57
68	The plantibody approach: expression of antibody genes in plants to modulate plant metabolism or to obtain pathogen resistance. <i>Plant Molecular Biology</i> , 2000 , 43, 419-28	4.6	56
67	Intact antigen-binding MAK33 antibody and Fab fragment accumulate in intercellular spaces of <i>Arabidopsis thaliana</i> . <i>Plant Science</i> , 1996 , 114, 233-241	5.3	52
66	Determination of the T-DNA transfer and the T-DNA integration frequencies upon cocultivation of <i>Arabidopsis thaliana</i> root explants. <i>Molecular Plant-Microbe Interactions</i> , 2000 , 13, 658-65	3.6	50
65	Bacterial and plant-produced scFv proteins have similar antigen-binding properties. <i>FEBS Letters</i> , 1996 , 386, 5-10	3.8	50
64	Transgene silencing of invertedly repeated transgenes is released upon deletion of one of the transgenes involved. <i>Plant Molecular Biology</i> , 2001 , 46, 433-45	4.6	48
63	Cell culture-induced gradual and frequent epigenetic reprogramming of invertedly repeated tobacco transgene epialleles. <i>Plant Physiology</i> , 2009 , 149, 1493-504	6.6	45
62	Single-domain antibodies targeting neuraminidase protect against an H5N1 influenza virus challenge. <i>Journal of Virology</i> , 2014 , 88, 8278-96	6.6	44
61	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, 2036-48	6.6	44
60	Production of monoclonal antibodies with a controlled N-glycosylation pattern in seeds of <i>Arabidopsis thaliana</i> . <i>Plant Biotechnology Journal</i> , 2011 , 9, 179-92	11.6	43
59	Expression of antibodies and Fab fragments in transgenic potato plants: a case study for bulk production in crop plants. <i>Molecular Breeding</i> , 2002 , 9, 271-282	3.4	43
58	Qualitative and event-specific PCR real-time detection methods for StarLink maize. <i>European Food Research and Technology</i> , 2003 , 216, 259-263	3.4	41
57	Quantitative kinetic analysis of β glucuronidase activities using a computer-directed microtiter plate reader. <i>Plant Molecular Biology Reporter</i> , 1993 , 11, 21-31	1.7	41
56	Non-food/feed seeds as biofactories for the high-yield production of recombinant pharmaceuticals. <i>Plant Biotechnology Journal</i> , 2011 , 9, 911-21	11.6	38
55	Highly efficient targeting and accumulation of a F(ab) fragment within the secretory pathway and apoplast of <i>Arabidopsis thaliana</i> . <i>FEBS Journal</i> , 2001 , 268, 4251-60		37

54	Using GlycoDelete to produce proteins lacking plant-specific N-glycan modification in seeds. <i>Nature Biotechnology</i> , 2015 , 33, 1135-7	44.5	36
53	Generation of single-copy T-DNA transformants in Arabidopsis by the CRE/loxP recombination-mediated resolution system. <i>Plant Physiology</i> , 2007 , 145, 1171-82	6.6	36
52	Production of antibodies and antibody fragments in plants. <i>Vaccine</i> , 2001 , 19, 2756-61	4.1	35
51	The case for plant-made veterinary immunotherapeutics. <i>Biotechnology Advances</i> , 2016 , 34, 597-604	17.8	32
50	The trans-silencing capacity of invertedly repeated transgenes depends on their epigenetic state in tobacco. <i>Nucleic Acids Research</i> , 2006 , 34, 2280-93	20.1	31
49	Fusion of an Fc chain to a VHH boosts the accumulation levels in Arabidopsis seeds. <i>Plant Biotechnology Journal</i> , 2013 , 11, 1006-16	11.6	30
48	Yeast-secreted, dried and food-admixed monomeric IgA prevents gastrointestinal infection in a piglet model. <i>Nature Biotechnology</i> , 2019 , 37, 527-530	44.5	29
47	Different 5' leader sequences modulate β -glucuronidase accumulation levels in transgenic <i>Nicotiana tabacum</i> plants. <i>Euphytica</i> , 1995 , 85, 209-216	2.1	29
46	Recombinant antibody production in Arabidopsis seeds triggers an unfolded protein response. <i>Plant Physiology</i> , 2013 , 161, 1021-33	6.6	25
45	High frequency of single-copy T-DNA transformants produced by floral dip in CRE-expressing Arabidopsis plants. <i>Plant Journal</i> , 2009 , 59, 517-27	6.9	25
44	Trans-generation inheritance of methylation patterns in a tobacco transgene following a post-transcriptional silencing event. <i>Plant Journal</i> , 2008 , 54, 1049-62	6.9	25
43	Biomufacturing of protective antibodies and other therapeutics in edible plant tissues for oral applications. <i>Plant Biotechnology Journal</i> , 2016 , 14, 1791-9	11.6	24
42	Introns reduce transitivity proportionally to their length, suggesting that silencing spreads along the pre-mRNA. <i>Plant Journal</i> , 2010 , 64, 392-401	6.9	23
41	Recombinant IgA production for mucosal passive immunization, advancing beyond the hurdles. <i>Cellular and Molecular Life Sciences</i> , 2016 , 73, 535-45	10.3	21
40	Trafficking of endoplasmic reticulum-retained recombinant proteins is unpredictable in Arabidopsis thaliana. <i>Frontiers in Plant Science</i> , 2014 , 5, 473	6.2	20
39	Role of plant expression systems in antibody production for passive immunization. <i>International Journal of Developmental Biology</i> , 2013 , 57, 587-93	1.9	20
38	Comparison of VHH-Fc antibody production in Arabidopsis thaliana, <i>Nicotiana benthamiana</i> and <i>Pichia pastoris</i> . <i>Plant Biotechnology Journal</i> , 2015 , 13, 938-47	11.6	19
37	The influence of matrix attachment regions on transgene expression in Arabidopsis thaliana wild type and gene silencing mutants. <i>Plant Molecular Biology</i> , 2007 , 63, 533-43	4.6	19

36	Production of camel-like antibodies in plants. <i>Methods in Molecular Biology</i> , 2012 , 911, 305-24	1.4	18
35	Transitive RNA silencing signals induce cytosine methylation of a transgenic but not an endogenous target. <i>Plant Journal</i> , 2013 , 74, 867-79	6.9	17
34	Evaluation of seven promoters to achieve germline directed Cre-lox recombination in <i>Arabidopsis thaliana</i> . <i>Plant Cell Reports</i> , 2009 , 28, 1509-20	5.1	17
33	Analysis of the interaction between single-chain variable fragments and their antigen in a reducing intracellular environment using the two-hybrid system. <i>FEBS Letters</i> , 2000 , 467, 316-20	3.8	14
32	Site-specific T-DNA integration in <i>Arabidopsis thaliana</i> mediated by the combined action of CRE recombinase and γ C31 integrase. <i>Plant Journal</i> , 2013 , 75, 172-184	6.9	13
31	Paramutation of tobacco transgenes by small RNA-mediated transcriptional gene silencing. <i>Epigenetics</i> , 2011 , 6, 650-60	5.7	13
30	A technology platform for the fast production of monoclonal recombinant antibodies against plant proteins and peptides. <i>Journal of Immunological Methods</i> , 2004 , 294, 181-7	2.5	13
29	Isolation and characterization of recombinant antibody fragments against CDC2a from <i>Arabidopsis thaliana</i> . <i>FEBS Journal</i> , 2000 , 267, 6775-83		13
28	Tobacco seeds as efficient production platform for a biologically active anti-HBsAg monoclonal antibody. <i>Transgenic Research</i> , 2015 , 24, 897-909	3.3	12
27	The efficiency of <i>Arabidopsis thaliana</i> floral dip transformation is determined not only by the <i>Agrobacterium</i> strain used but also by the physiology and the ecotype of the dipped plant. <i>Molecular Plant-Microbe Interactions</i> , 2013 , 26, 823-32	3.6	12
26	Use of phage display for isolation and characterization of single-chain variable fragments against dihydroflavonol 4-reductase from <i>Petunia hybrida</i> . <i>FEBS Letters</i> , 1997 , 403, 116-22	3.8	12
25	Boosting in planta production of antigens derived from the porcine reproductive and respiratory syndrome virus (PRRSV) and subsequent evaluation of their immunogenicity. <i>PLoS ONE</i> , 2014 , 9, e91386	3.7	12
24	Simplified monomeric VHH-Fc antibodies provide new opportunities for passive immunization. <i>Current Opinion in Biotechnology</i> , 2020 , 61, 96-101	11.4	12
23	Generation of VHH antibodies against the <i>Arabidopsis thaliana</i> seed storage proteins. <i>Plant Molecular Biology</i> , 2014 , 84, 83-93	4.6	11
22	<i>Agrobacterium Tumefaciens</i> -Mediated Transformation: Patterns of T-Dna Integration Into the Host Genome 2008 , 441-481		11
21	Transgene Silencing1-32		10
20	In planta expression of nanobody-based designer chicken antibodies targeting <i>Campylobacter</i> . <i>PLoS ONE</i> , 2018 , 13, e0204222	3.7	10
19	Characterization of the single-chain Fv-Fc antibody MBP10 produced in <i>Arabidopsis alg3</i> mutant seeds. <i>Transgenic Research</i> , 2011 , 20, 1033-42	3.3	9

18	High accumulation in tobacco seeds of hemagglutinin antigen from avian (H5N1) influenza. <i>Transgenic Research</i> , 2017 , 26, 775-789	3.3	8
17	Stability of the T-DNA flanking regions in transgenic <i>Arabidopsis thaliana</i> plants under influence of abiotic stress and cultivation practices. <i>Plant Cell Reports</i> , 2008 , 27, 749-57	5.1	8
16	Genetic and epigenetic aspects of somaclonal variation: flower colour bud sports in azalea, a case study. <i>South African Journal of Botany</i> , 2003 , 69, 117-128	2.9	8
15	Evaluating single-domain antibodies as carriers for targeted vaccine delivery to the small intestinal epithelium. <i>Journal of Controlled Release</i> , 2020 , 321, 416-429	11.7	6
14	Russell-Like Bodies in Plant Seeds Share Common Features With Prolamin Bodies and Occur Upon Recombinant Protein Production. <i>Frontiers in Plant Science</i> , 2019 , 10, 777	6.2	6
13	T-DNA transfer and T-DNA integration efficiencies upon <i>Arabidopsis thaliana</i> root explant cocultivation and floral dip transformation. <i>Planta</i> , 2013 , 238, 1025-37	4.7	6
12	Introduction of silencing-inducing transgenes does not affect expression of known transcripts. <i>FEBS Letters</i> , 2006 , 580, 4154-9	3.8	6
11	Sequence stability of the T-DNA - plant junctions in tissue culture in <i>Arabidopsis</i> transgenic lines. <i>Plant Cell Reports</i> , 2006 , 25, 1362-8	5.1	6
10	Plant expression systems for early stage discovery and development of lead therapeutic antibodies. <i>Human Antibodies</i> , 2015 , 23, 37-43	1.3	5
9	Epigenetic switches of tobacco transgenes associate with transient redistribution of histone marks in callus culture. <i>Epigenetics</i> , 2013 , 8, 666-76	5.7	5
8	Transformation strategies for stable expression of complex hetero-multimeric proteins like secretory immunoglobulin A in plants. <i>Plant Biotechnology Journal</i> , 2019 , 17, 1760-1769	11.6	4
7	A two-amino acid mutation in murine IgA enables downstream processing and purification on staphylococcal superantigen-like protein 7. <i>Journal of Biotechnology</i> , 2019 , 294, 26-29	3.7	4
6	Plants as bioreactors for protein production: avoiding the problem of transgene silencing 2000 , 227-239		4
5	Production of antibody fragments in <i>Arabidopsis</i> seeds. <i>Methods in Molecular Biology</i> , 2009 , 483, 89-101	1.4	3
4	Seed-produced anti-globulin VHH-Fc antibodies retrieve globulin precursors in the insoluble fraction and modulate the <i>Arabidopsis thaliana</i> seed subcellular morphology. <i>Plant Molecular Biology</i> , 2020 , 103, 597-608	4.6	2
3	High frequency of single-copy T-DNA transformants produced after floral dip in CRE-expressing <i>Arabidopsis</i> plants. <i>Methods in Molecular Biology</i> , 2012 , 847, 317-33	1.4	2
2	Detection and investigation of transitive gene silencing in plants. <i>Methods in Molecular Biology</i> , 2014 , 1112, 219-41	1.4	
1	Transgene Silencing 2018 , 1-32		

