Arjen Schots

List of Publications by Year
in descending order

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Version: 2024-02-01

87 papers	4,621 citations	117571 34 h-index	102432 66 g-index
92 all docs	92 docs citations	92 times ranked	3885 citing authors

#	Article	IF	Citations
1	Endogenous cellulases in animals: Isolation of Â-1,4-endoglucanase genes from two species of plant-parasitic cyst nematodes. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 4906-4911.	3.3	452
2	Nematode Parasitism Genes. Annual Review of Phytopathology, 2000, 38, 365-396.	3.5	270
3	The C-terminal KDEL sequence increases the expression level of a single-chain antibody designed to be targeted to both the cytosol and the secretory pathway in transgenic tobacco. Plant Molecular Biology, 1996, 30, 781-793.	2.0	260
4	Dual disease resistance mediated by the immune receptor Cf-2 in tomato requires a common virulence target of a fungus and a nematode. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10119-10124.	3.3	246
5	Both Induction and Morphogenesis of Cyst Nematode Feeding Cells Are Mediated by Auxin. Molecular Plant-Microbe Interactions, 2000, 13, 1121-1129.	1.4	182
6	A nematode expansin acting on plants. Nature, 2004, 427, 30-30.	13.7	180
7	Degradation of plant cell walls by a nematode. Nature, 2000, 406, 36-37.	13.7	167
8	Structural Dynamics of Green Fluorescent Protein Alone and Fused with a Single Chain Fv Protein. Journal of Biological Chemistry, 2000, 275, 17556-17560.	1.6	164
9	Nucleocytoplasmic Distribution Is Required for Activation of Resistance by the Potato NB-LRR Receptor Rx1 and Is Balanced by Its Functional Domains. Plant Cell, 2011, 22, 4195-4215.	3.1	140
10	Genomic organization of four Î²-1,4-endoglucanase genes in plant-parasitic cyst nematodes and its evolutionary implications. Gene, 1998, 220, 61-70.	1.0	128
11	Coordinate expression of antibody subunit genes yields high levels of functional antibodies in roots of transgenic tobacco. Plant Molecular Biology, 1994, 26, 1701-1710.	2.0	124
12	Apoplastic Venom Allergen-like Proteins of Cyst Nematodes Modulate the Activation of Basal Plant Innate Immunity by Cell Surface Receptors. PLoS Pathogens, 2014, 10, e1004569.	2.1	111
13	A functional polymeric immunoglobulin receptor in chicken (Gallus gallus) indicates ancient role of secretory IgA in mucosal immunity. Biochemical Journal, 2004, 380, 669-676.	1.7	105
14	Gene Pool Similarities of Potato Cyst Nematode Populations Assessed by AFLP Analysis. Molecular Plant-Microbe Interactions, 1996, 9, 47.	1.4	104
15	An Efficient cDNA-AFLP-Based Strategy for the Identification of Putative Pathogenicity Factors from the Potato Cyst Nematode Globodera rostochiensis. Molecular Plant-Microbe Interactions, 2000, 13, 830-836.	1.4	101
16	Successive immunoglobulin and cytokine expression in the small intestine of juvenile chicken. Developmental and Comparative Immunology, 2010, 34, 1254-1262.	1.0	101
17	N-Glycosylation of Plant-produced Recombinant Proteins. Current Pharmaceutical Design, 2013, 19, 5503-5512.	0.9	101
18	Improving scFv antibody expression levels in the plant cytosol1. FEBS Letters, 1997, 415, 235-241.	1.3	78

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19	Plant glycans: friend or foe in vaccine development?. Expert Review of Vaccines, 2010, 9, 835-842.	2.0	78
20	Schistosome egg antigens, including the glycoprotein IPSE/alpha-1, trigger the development of regulatory B cells. PLoS Pathogens, 2017, 13, e1006539.	2.1	78
21	A Symbiont-Independent Endo-1,4-Î²-Xylanase from the Plant-Parasitic Nematode Meloidogyne incognita. Molecular Plant-Microbe Interactions, 2006, 19, 521-529.	1.4	71
22	Development of Specific Recombinant Monoclonal Antibodies Against the Lipopolysaccharide of Ralstonia solanacearum Race 3. Phytopathology, 1998, 88, 795-803.	1.1	57
23	Expression and Functional Characterization of a Single Chain FV Antibody Directed against Secretions Involved in Plant Nematode Infection Process. Biochemical and Biophysical Research Communications, 1996, 220, 255-263.	1.0	56
24	Fluorescence dynamics of green fluorescent protein in AOT reversed micelles. Biophysical Chemistry, 2000, 87, 73-84.	1.5	55
25	Production and glyco-engineering of immunomodulatory helminth glycoproteins in plants. Scientific Reports, 2017, 7, 45910.	1.6	54
26	Fluobodies: green fluorescent single-chain Fv fusion proteins. Journal of Immunological Methods, 1999, 230, 121-130.	0.6	52
27	Secretory Granule Proteins from the Subventral Esophageal Glands of the Potato Cyst Nematode Identified by Monoclonal Antibodies to a Protein Fraction from Second-Stage Juveniles. Molecular Plant-Microbe Interactions, 1996, 9, 39.	1.4	47
28	pSKAP/S: An Expression Vector for the Production of Single-Chain Fv Alkaline Phosphatase Fusion Proteins. Protein Expression and Purification, 1999, 16, 63-69.	0.6	46
29	A method for the determination of antibody affinity using a direct ELISA. Journal of Immunological Methods, 1988, 109, 225-233.	0.6	43
30	In plantamonitoring of the activity of two constitutive promoters, CaMV 35S and TR2â€², in developing feeding cells induced byGlobodera rostochiensisusing green fluorescent protein in combination with confocal laser scanning microscopy. Physiological and Molecular Plant Pathology, 1998, 52, 275-284.	1.3	43
31	Potato Root Diffusate-Induced Secretion of Soluble, Basic Proteins Originating from the Subventral Esophageal Glands of Potato Cyst Nematodes. Phytopathology, 1997, 87, 839-845.	1.1	42
32	Detection of Flowing Fluorescent Particles in a Microcapillary Using Fluorescence Correlation Spectroscopy. Analytical Chemistry, 2002, 74, 5350-5357.	3.2	42
33	Sequence Exchange between Homologous NB-LRR Genes Converts Virus Resistance into Nematode Resistance, and Vice Versa. Plant Physiology, 2017, 175, 498-510.	2.3	40
34	Naturally Induced Secretions of the Potato Cyst Nematode Co-stimulate the Proliferation of Both Tobacco Leaf Protoplasts and Human Peripheral Blood Mononuclear Cells. Molecular Plant-Microbe Interactions, 1999, 12, 872-881.	1.4	37
35	Inter- and Intraspecific Variation Between Populations ofGlobodera rostochiensisandG. pallidaRevealed by Random Amplified Polymorphic DNA. Phytopathology, 1994, 84, 807.	1.1	36
36	Phage display-selected single-chain antibodies confer high levels of resistance against Tomato spotted wilt virus. Journal of General Virology, 2005, 86, 2107-2113.	1.3	35

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37	Plant expression of chicken secretory antibodies derived from combinatorial libraries. Journal of Biotechnology, 2006, 122, 382-391.	1.9	34
38	Coâ€expression of the protease furin in Nicotiana benthamiana leads to efficient processing of latent transforming growth factorâ€Î²1 into a biologically active protein. Plant Biotechnology Journal, 2016, 14, 1695-1704.	4.1	34
39	Formation of Disulfide Bridges by a Single-chain Fv Antibody in the Reducing Ectopic Environment of the Plant Cytosol. Journal of Biological Chemistry, 2002, 277, 19339-19345.	1.6	33
40	Application of Phage Display in Selecting Tomato spotted wilt virus-Specific Single-Chain Antibodies (scFvs) for Sensitive Diagnosis in ELISA. Phytopathology, 2000, 90, 183-190.	1.1	30
41	â€˜Plantibodiesâ€™: a flexible approach to design resistance against pathogens. European Journal of Plant Pathology, 1992, 98, 183-191.	0.5	28
42	Cloning of a trans-spliced glyceraldehyde-3-phosphate-dehydrogenase gene from the potato cyst nematode Globodera rostochiensis and expression of its putative promoter region in Caenorhabditis elegans1Note: Nucleotide sequence data reported in this paper is available in the EMBL, GenBankâ„¢ and DDJB data bases under the accession number AF004522.1. Molecular and Biochemical Parasitology, 1998, 96, 59-67.	0.5	24
43	Specificity of polyclonal and monoclonal antibodies for the identification of Xanthomonas campestris pv. campestris. European Journal of Plant Pathology, 1992, 98, 81-94.	0.5	21
44	Monomeric <scp>I</scp>g<scp>A</scp> can be produced in planta as efficient as <scp>I</scp>g<scp>G</scp>, yet receives different <scp>N</scp>â€glycans. Plant Biotechnology Journal, 2014, 12, 1333-1342.	4.1	21
45	Design of a confocal microfluidic particle sorter using fluorescent photon burst detection. Review of Scientific Instruments, 2004, 75, 2892-2898.	0.6	20
46	Nicotiana benthamiana Î±-galactosidase A1.1 can functionally complement human Î±-galactosidase A deficiency associated with Fabry disease. Journal of Biological Chemistry, 2018, 293, 10042-10058.	1.6	20
47	The helminth glycoprotein omegaâ€1 improves metabolic homeostasis in obese mice through type 2 immunityâ€independent inhibition of food intake. FASEB Journal, 2021, 35, e21331.	0.2	20
48	Monoclonal Antibodies-Based Immunofluorescence Test for Detection of Conidia ofBotrytis cinereaon Cut Flowers. Phytopathology, 1994, 84, 351.	1.1	20
49	3D Domain Swapping Causes Extensive Multimerisation of Human Interleukin-10 When Expressed In Planta. PLoS ONE, 2012, 7, e46460.	1.1	19
50	Antigenic analysis of the coat protein of beet necrotic yellow vein virus by means of monoclonal antibodies. Journal of General Virology, 1990, 71, 2229-2232.	1.3	18
51	Isolation of recombinant antibodies (scFvs) to grapevine virus B. Journal of Virological Methods, 2005, 124, 191-195.	1.0	18
52	Transient Expression of Secretory IgA In Planta is Optimal Using a Multi-Gene Vector and may be Further Enhanced by Improving Joining Chain Incorporation. Frontiers in Plant Science, 2015, 6, 1200.	1.7	18
53	Distinct Roles of Non-Overlapping Surface Regions of the Coiled-Coil Domain in the Potato Immune Receptor Rx1. Plant Physiology, 2018, 178, 1310-1331.	2.3	18
54	Re-evaluation of IL-10 signaling reveals novel insights on the contribution of the intracellular domain of the IL-10R2 chain. PLoS ONE, 2017, 12, e0186317.	1.1	18

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55	Electron microscopical demonstration of different binding sites for monoclonal antibodies on particles of beet necrotic yellow vein virus. Journal of General Virology, 1990, 71, 731-733.	1.3	17
56	Epitope mapping on fragments of beet necrotic yellow vein virus coat protein. Journal of General Virology, 1992, 73, 695-700.	1.3	17
57	Phage antibodies against an unstable hapten: Oxygen sensitive reduced flavin. FEBS Letters, 1996, 388, 242-244.	1.3	16
58	Serological Differentiation of the Potato-Cyst NematodesGlobodera pallidaandG. rostochiensis: II. Preparation and Characterization of Species Specific Monoclonal Antibodies. Hybridoma, 1989, 8, 401-413.	0.9	15
59	Fluorescent T7 display phages obtained by translational frameshift. Nucleic Acids Research, 2006, 34, e137-e137.	6.5	14
60	Functional characterization of Schistosoma mansoni fucosyltransferases in Nicotiana benthamiana plants. Scientific Reports, 2020, 10, 18528.	1.6	14
61	Title is missing!. European Journal of Plant Pathology, 1999, 105, 147-156.	0.8	13
62	The Nâ€glycan on Asn54 affects the atypical Nâ€glycan composition of plantâ€produced interleukinâ€22, but does not influence its activity. Plant Biotechnology Journal, 2016, 14, 670-681.	4.1	13
63	Monoclonal Antibodies Against Two Electron Reduced Riboflavin and a Quantification of Affinity Constants for this Oxygen-Sensitive Molecule. FEBS Journal, 1995, 234, 245-250.	0.2	12
64	Human Alpha Galactosidases Transiently Produced in Nicotiana benthamiana Leaves: New Insights in Substrate Specificities with Relevance for Fabry Disease. Frontiers in Plant Science, 2017, 8, 1026.	1.7	12
65	Epitope identification and in silico prediction of the specificity of antibodies binding to the coat proteins of Potato Virus Y strains. European Journal of Plant Pathology, 2005, 111, 391-397.	0.8	11
66	Serological differentiation of the potato-cyst nematodes Globodera pallida and G. rostochiensis: partial purification of species-specific proteins. Parasitology, 1987, 95, 421-428.	0.7	10
67	Cluster analysis of 36Globodera pallida field populations using two sets of molecular markers. European Journal of Plant Pathology, 1996, 102, 577-584.	0.8	10
68	Display and selection of chicken IgA Fab fragments. Veterinary Immunology and Immunopathology, 2006, 110, 129-140.	0.5	10
69	Monoclonal Antibody-Based Double-Antibody Sandwich-ELISA for Detection ofVerticilliumspp. in Ornamentals. Phytopathology, 1995, 85, 608.	1.1	10
70	Regulation of the Flavin Redox Potential by Flavin-Binding Antibodies. FEBS Journal, 1997, 249, 393-400.	0.2	9
71	Physical Interaction of T Cells with Dendritic Cells Is Not Required for the Immunomodulatory Effects of the Edible Mushroom Agaricus subrufescens. Frontiers in Immunology, 2016, 7, 519.	2.2	9
72	Towards Sorting of Biolibraries Using Single-Molecule Fluorescence Detection Techniques. Current Pharmaceutical Biotechnology, 2004, 5, 173-179.	0.9	8

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73	Hapten Design for Antibodyâ€Catalyzed Decarboxylation and Ringâ€Opening Reactions of Benzisoxazoles. Israel Journal of Chemistry, 1996, 36, 177-183.	1.0	7
74	Assessing the immunomodulatory potential of highâ€molecularâ€weight extracts from mushrooms; an assay based on <scp>THP</scp>â€1 macrophages. Journal of the Science of Food and Agriculture, 2015, 95, 344-350.	1.7	7
75	Î²-Hexosaminidases Along the Secretory Pathway of Nicotiana benthamiana Have Distinct Specificities Toward Engineered Helminth N-Glycans on Recombinant Glycoproteins. Frontiers in Plant Science, 2021, 12, 638454.	1.7	7
76	Species-Specific and Thermostable Proteins from Second-Stage Larvae ofGlobodera rostochiensisandG. pallida. Phytopathology, 1988, 78, 300.	1.1	7
77	Constitutive nitrogenase synthesis from de novo transcribed mRNA in isolated Rhizobium leguminosarum bacteroids. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1983, 740, 313-322.	2.4	6
78	Towards Plantibody-Mediated Resistance Against Nematodes. Developments in Plant Pathology, 1997, , 262-271.	0.1	6
79	Helminth Glycans at the Host-Parasite Interface and Their Potential for Developing Novel Therapeutics. Frontiers in Molecular Biosciences, 2021, 8, 807821.	1.6	5
80	Identification and management of virulence genes in potato cyst nematodes. European Journal of Plant Pathology, 1992, 98, 157-163.	0.5	4
81	A biotechnological strategy involving monoclonal antibodies for improvement of potato farming by identification and quantification of potato cyst nematodes in soil samples. EPPO Bulletin, 1988, 18, 369-373.	0.6	3
82	Green Fluorescent Protein Fluobody Immunosensors: Immunofluorescence with GFP-Antibody Fusion Proteins. , 2002, 183, 265-273.		3
83	Granulocyte-macrophage colony-stimulating factor negatively regulates early IL-10-mediated responses. Future Science OA, 2018, 4, FSO288.	0.9	2
84	Glyco-Engineering Plants to Produce Helminth Glycoproteins as Prospective Biopharmaceuticals: Recent Advances, Challenges and Future Prospects. Frontiers in Plant Science, 2022, 13, 882835.	1.7	2
85	Monoclonal Antibodies Against Rat Glutathione S-Transferase Isoenzymes 2-2 and 3-3. Hybridoma, 1989, 8, 475-480.	0.9	0
86	Towards Plantibody-Mediated Resistance to Plant Parasitic Nematodes. Developments in Plant Genetics and Breeding, 2000, 5, 130-136.	0.6	0
87	Perspectives for Genetically Engineered Antibodies for the Identification of Nematodes. , 1994, , 129-140.		0