

Maarten A. Jongsma

List of Publications by Year in descending order

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83
papers

5,863
citations

66343

42
h-index

74163

75
g-index

83
all docs

83
docs citations

83
times ranked

5884
citing authors

#	ARTICLE	IF	CITATIONS
1	The adaptation of insects to plant protease inhibitors. <i>Journal of Insect Physiology</i> , 1997, 43, 885-895.	2.0	469
2	Terpenoid Metabolism in Wild-Type and Transgenic Arabidopsis Plants[W]. <i>Plant Cell</i> , 2003, 15, 2866-2884.	6.6	461
3	Adaptation of <i>Spodoptera exigua</i> larvae to plant proteinase inhibitors by induction of gut proteinase activity insensitive to inhibition.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 8041-8045.	7.1	433
4	Gain and Loss of Fruit Flavor Compounds Produced by Wild and Cultivated Strawberry Species. <i>Plant Cell</i> , 2004, 16, 3110-3131.	6.6	427
5	Volatile science? Metabolic engineering of terpenoids in plants. <i>Trends in Plant Science</i> , 2005, 10, 594-602.	8.8	361
6	Colorado potato beetles (<i>leptinotarsa decemlineata</i>) adapt to proteinase inhibitors induced in potato leaves by methyl jasmonate. <i>Journal of Insect Physiology</i> , 1995, 41, 1071-1078.	2.0	182
7	Genetic architecture of plant stress resistance: multi-trait genome-wide association mapping. <i>New Phytologist</i> , 2017, 213, 1346-1362.	7.3	144
8	Coordinate expression of antibody subunit genes yields high levels of functional antibodies in roots of transgenic tobacco. <i>Plant Molecular Biology</i> , 1994, 26, 1701-1710.	3.9	124
9	AtWRKY22 promotes susceptibility to aphids and modulates salicylic acid and jasmonic acid signalling. <i>Journal of Experimental Botany</i> , 2016, 67, 3383-3396.	4.8	121
10	Development of late blight resistant potatoes by cisgene stacking. <i>BMC Biotechnology</i> , 2014, 14, 50.	3.3	120
11	Real-time imaging of microparticles and living cells with CMOS nanocapacitor arrays. <i>Nature Nanotechnology</i> , 2015, 10, 791-795.	31.5	120
12	Role of cucurbitacin C in resistance to spider mite (<i>Tetranychus urticae</i>) in cucumber (<i>Cucumis</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30	1.8	107
13	The promoter-terminator of chrysanthemum rbcS1 directs very high expression levels in plants. <i>Planta</i> , 2003, 216, 1003-1012.	3.2	105
14	Properties of purified gut trypsin from <i>Helicoverpa zea</i> , adapted to proteinase inhibitors. <i>FEBS Journal</i> , 2002, 270, 10-19.	0.2	100
15	Characterization of two geraniol synthases from <i>Valeriana officinalis</i> and <i>Lippia dulcis</i> : Similar activity but difference in subcellular localization. <i>Metabolic Engineering</i> , 2013, 20, 198-211.	7.0	82
16	Metabolic engineering of geranic acid in maize to achieve fungal resistance is compromised by novel glycosylation patterns. <i>Metabolic Engineering</i> , 2011, 13, 414-425.	7.0	77
17	Breeding of a tomato genotype readily accessible to genetic manipulation. <i>Plant Science</i> , 1986, 45, 201-208.	3.6	76
18	Automated video tracking of thrips behavior to assess host-plant resistance in multiple parallel two-choice setups. <i>Plant Methods</i> , 2016, 12, 1.	4.3	74

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19	Expression of Sea Anemone Equistatin in Potato. Effects of Plant Proteases on Heterologous Protein Production. <i>Plant Physiology</i> , 2003, 133, 379-390.	4.8	72
20	Engineered multidomain cysteine protease inhibitors yield resistance against western flower thrips (<i>Frankliniella occidentalis</i>) in greenhouse trials. <i>Plant Biotechnology Journal</i> , 2004, 2, 449-458.	8.3	72
21	Mapping of the <i>S. demissum</i> late blight resistance gene R8 to a new locus on chromosome IX. <i>Theoretical and Applied Genetics</i> , 2011, 123, 1331-1340.	3.6	70
22	The cysteine protease activity of Colorado potato beetle (<i>Leptinotarsa decemlineata</i> Say) guts, which is insensitive to potato protease inhibitors, is inhibited by thyroglobulin type-1 domain inhibitors. <i>Insect Biochemistry and Molecular Biology</i> , 1998, 28, 549-560.	2.7	69
23	Optimization of the Expression of Equistatin in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2002, 24, 18-24.	1.3	65
24	Combatting inhibitor-insensitive proteases of insect pests. <i>Trends in Biotechnology</i> , 1996, 14, 331-333.	9.3	64
25	Structural basis of the resistance of an insect carboxypeptidase to plant protease inhibitors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16602-16607.	7.1	64
26	Association mapping of plant resistance to insects. <i>Trends in Plant Science</i> , 2012, 17, 311-319.	8.8	63
27	Molecular basis of Colorado potato beetle adaptation to potato plant defence at the level of digestive cysteine proteinases. <i>Insect Biochemistry and Molecular Biology</i> , 2004, 34, 365-375.	2.7	62
28	Bidirectional Secretions from Glandular Trichomes of <i>Pyrethrum</i> Enable Immunization of Seedlings. <i>Plant Cell</i> , 2012, 24, 4252-4265.	6.6	62
29	Effects of light, hydropriming and abiotic stress on seed germination, and shoot and root growth of <i>pyrethrum</i> (<i>Tanacetum cinerariifolium</i>). <i>Industrial Crops and Products</i> , 2011, 34, 1543-1549.	5.2	59
30	Biosynthesis of Sesquiterpene Lactones in <i>Pyrethrum</i> (<i>Tanacetum cinerariifolium</i>). <i>PLoS ONE</i> , 2013, 8, e65030.	2.5	57
31	Biosensor-based detection of tuberculosis. <i>RSC Advances</i> , 2016, 6, 17759-17771.	3.6	56
32	Selection by phage display of a variant mustard trypsin inhibitor toxic against aphids. <i>Plant Journal</i> , 2003, 33, 557-566.	5.7	54
33	Specific cysteine protease inhibitors act as deterrents of western flower thrips, <i>Frankliniella occidentalis</i> (Pergande), in transgenic potato. <i>Plant Biotechnology Journal</i> , 2004, 2, 439-448.	8.3	53
34	Potato virus Y induced changes in the gene expression of potato (<i>Solanum tuberosum</i> L.). <i>Physiological and Molecular Plant Pathology</i> , 2005, 67, 237-247.	2.5	53
35	Characterisation of cysteine proteinases responsible for digestive proteolysis in guts of larval western corn rootworm (<i>Diabrotica virgifera</i>) by expression in the yeast <i>Pichia pastoris</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2004, 34, 305-320.	2.7	52
36	Co-Evolution of Insect Proteases and Plant Protease Inhibitors. <i>Current Protein and Peptide Science</i> , 2011, 12, 437-447.	1.4	51

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37	Characterization and partial purification of gut proteinases of <i>Spodoptera exigua</i> Hübner (Lepidoptera: Noctuidae). <i>Insect Biochemistry and Molecular Biology</i> , 1996, 26, 185-193.	2.7	48
38	Chrysanthemyl Diphosphate Synthase Operates in Planta as a Bifunctional Enzyme with Chrysanthemol Synthase Activity. <i>Journal of Biological Chemistry</i> , 2014, 289, 36325-36335.	3.4	48
39	The diamondback moth, <i>Plutella xylostella</i> , specifically inactivates Mustard Trypsin Inhibitor 2 (MTI2) to overcome host plant defence. <i>Insect Biochemistry and Molecular Biology</i> , 2009, 39, 55-61.	2.7	47
40	Self-assembling protein arrays on DNA chips by auto-labeling fusion proteins with a single DNA address. <i>Proteomics</i> , 2006, 6, 2650-2655.	2.2	46
41	<i>Chrysanthemum</i> expressing a linalool synthase gene "smells good", but "tastes bad" to western flower thrips. <i>Plant Biotechnology Journal</i> , 2013, 11, 875-882.	8.3	45
42	Quantitative Determination of Serine Proteinase Inhibitor Activity Using a Radial Diffusion Assay. <i>Analytical Biochemistry</i> , 1993, 212, 79-84.	2.4	44
43	Crystal structure of a novel Mid-gut procarboxypeptidase from the cotton pest <i>Helicoverpa armigera</i> . <i>Journal of Molecular Biology</i> , 2001, 313, 629-638.	4.2	42
44	A COMPLEX OF GENES INVOLVED IN ADAPTATION OF <i>Leptinotarsa decemlineata</i> LARVAE TO INDUCED POTATO DEFENSE. <i>Archives of Insect Biochemistry and Physiology</i> , 2012, 79, 153-181.	1.5	41
45	Characterization of potato proteinase inhibitorâ€¦ reactive site mutants. <i>FEBS Journal</i> , 2000, 267, 1975-1984.	0.2	40
46	Tomato protoplast DNA transformation: physical linkage and recombination of exogenous DNA sequences. <i>Plant Molecular Biology</i> , 1987, 8, 383-394.	3.9	39
47	Equistatin, a Protease Inhibitor from the Sea Anemone <i>Actinia equina</i> , Is Composed of Three Structural and Functional Domains. <i>Biochemical and Biophysical Research Communications</i> , 2000, 269, 732-736.	2.1	38
48	Orientation of llama antibodies strongly increases sensitivity of biosensors. <i>Biosensors and Bioelectronics</i> , 2014, 60, 130-136.	10.1	38
49	Characterization of recombinant mustard trypsin inhibitor 2 (MTI2) expressed in <i>Pichia pastoris</i> . <i>FEBS Letters</i> , 2000, 468, 137-141.	2.8	37
50	Pyrethrins Protect Pyrethrum Leaves Against Attack by Western Flower Thrips, <i>Frankliniella occidentalis</i> . <i>Journal of Chemical Ecology</i> , 2012, 38, 370-377.	1.8	36
51	A phagemid vector using the <i>E. coli</i> phage shock promoter facilitates phage display of toxic proteins. <i>Gene</i> , 1999, 228, 23-31.	2.2	34
52	Response of the digestive system of <i>Helicoverpa zea</i> to ingestion of potato carboxypeptidase inhibitor and characterization of an uninhibited carboxypeptidase B. <i>Insect Biochemistry and Molecular Biology</i> , 2006, 36, 654-664.	2.7	34
53	Pyrethric acid of natural pyrethrin insecticide: complete pathway elucidation and reconstitution in <i>Nicotiana benthamiana</i> . <i>New Phytologist</i> , 2019, 223, 751-765.	7.3	34
54	Digestive Duet: Midgut Digestive Proteinases of <i>Manduca sexta</i> Ingesting <i>Nicotiana attenuata</i> with Manipulated Trypsin Proteinase Inhibitor Expression. <i>PLoS ONE</i> , 2008, 3, e2008.	2.5	32

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55	High-throughput phenotyping of plant resistance to aphids by automated video tracking. <i>Plant Methods</i> , 2015, 11, 4.	4.3	31
56	Shoot organogenesis in leaf explants of <i>Hydrangea macrophylla</i> "Hyd1"™ and assessing genetic stability of regenerants using ISSR markers. <i>Plant Cell, Tissue and Organ Culture</i> , 2011, 104, 111-117.	2.3	29
57	Defense of pyrethrum flowers: repelling herbivores and recruiting carnivores by producing aphid alarm pheromone. <i>New Phytologist</i> , 2019, 223, 1607-1620.	7.3	29
58	Cloning of the chrysanthemum UEP1 promoter and comparative expression in florets and leaves of <i>Dendranthema grandiflora</i> . <i>Transgenic Research</i> , 2002, 11, 437-445.	2.4	28
59	Functional Expression on Bacteriophage of the Mustard Trypsin Inhibitor MTI-2. <i>Biochemical and Biophysical Research Communications</i> , 2001, 280, 813-817.	2.1	27
60	Effects of cysteine protease inhibitors on oviposition rate of the western flower thrips, <i>Frankliniella occidentalis</i> . <i>Journal of Insect Physiology</i> , 2002, 48, 701-706.	2.0	25
61	Phage display of a double-headed proteinase inhibitor: Analysis of the binding domains of potato proteinase inhibitor II. <i>Molecular Breeding</i> , 1995, 1, 181-191.	2.1	22
62	A Trichome-Specific Linoleate Lipoyxygenase Expressed During Pyrethrin Biosynthesis in Pyrethrum. <i>Lipids</i> , 2013, 48, 1005-1015.	1.7	22
63	Insect oviposition behavior affects the evolution of adaptation to Bt crops: consequences for refuge policies. <i>Evolutionary Ecology</i> , 2010, 24, 1017-1030.	1.2	20
64	A Broad Set of Different Llama Antibodies Specific for a 16 kDa Heat Shock Protein of <i>Mycobacterium tuberculosis</i> . <i>PLoS ONE</i> , 2011, 6, e26754.	2.5	20
65	Comparison of the chemical composition of three species of smartweed (genus <i>Persicaria</i>) with a focus on drimane sesquiterpenoids. <i>Phytochemistry</i> , 2014, 108, 129-136.	2.9	19
66	Comparative antifeedant activities of polygodial and pyrethrins against whiteflies (<i>Bemisia tabaci</i>). <i>Journal of Chemical Ecology</i> , 2010, 36, 107-115.	3.4	19
67	Structural characterization of thyroglobulin type-1 domains of equestatin. <i>FEBS Letters</i> , 2003, 539, 120-124.	2.8	18
68	Expression, Purification, and Characterization of Equestatin in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2000, 19, 329-334.	1.3	17
69	Comparative analysis of pyrethrin content improvement by mass selection, family selection and polycross in pyrethrum [<i>Tanacetum cinerariifolium</i> (Trevir.) Sch.Bip.] populations. <i>Industrial Crops and Products</i> , 2014, 53, 268-273.	5.2	16
70	Identification and characterization of digestive serine proteases from inhibitor-resistant <i>Helicoverpa zea</i> larval midgut. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006, 833, 26-32.	2.3	15
71	Identification of a drimenol synthase and drimenol oxidase from <i>Persicaria hydropiper</i> , involved in the biosynthesis of insect deterrent drimanes. <i>Plant Journal</i> , 2017, 90, 1052-1063.	5.7	15
72	Cloning, functional expression in <i>Pichia pastoris</i> , and purification of potato cystatin and multicystatin. <i>Journal of Bioscience and Bioengineering</i> , 2003, 95, 118-123.	2.2	12

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73	A generic microfluidic biosensor of G protein-coupled receptor activation monitoring cytoplasmic [Ca ²⁺] changes in human HEK293 cells. <i>Biosensors and Bioelectronics</i> , 2013, 47, 436-444.	10.1	11
74	Molecular cloning and characterization of the trichome specific chrysanthemyl diphosphate/chrysanthemol synthase promoter from <i>Tanacetum cinerariifolium</i> . <i>Scientia Horticulturae</i> , 2015, 185, 193-199.	3.6	11
75	An <i>Agrobacterium</i> -mediated transformation system of pyrethrum (<i>Tanacetum cinerariifolium</i>) based on leaf explants. <i>Scientia Horticulturae</i> , 2013, 150, 130-134.	3.6	10
76	Isolation and molecular characterization of cathepsin L-like cysteine protease cDNAs from western flower thrips (<i>Frankliniella occidentalis</i>). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2004, 139, 65-75.	1.6	9
77	16 kDa Heat Shock Protein from Heat-Inactivated <i>Mycobacterium tuberculosis</i> Is a Homodimer Suitable for Diagnostic Applications with Specific Llama VHH Monoclonals. <i>PLoS ONE</i> , 2013, 8, e64040.	2.5	8
78	Automated high-throughput individual tracking system for insect behavior: Applications on memory retention in parasitic wasps. <i>Journal of Neuroscience Methods</i> , 2018, 309, 208-217.	2.5	8
79	The Sectoral Innovation System of the Dutch Vegetable Breeding Industry. <i>Njas - Wageningen Journal of Life Sciences</i> , 2015, 74-75, 27-39.	7.7	7
80	Metabolomics meets functional assays: coupling LC-MS and microfluidic cell-based receptor-ligand analyses. <i>Metabolomics</i> , 2016, 12, 115.	3.0	6
81	Calcium Imaging of GPCR Activation Using Arrays of Reverse Transfected HEK293 Cells in a Microfluidic System. <i>Sensors</i> , 2018, 18, 602.	3.8	2
82	Statistical models discriminating between complex samples measured with microfluidic receptor-cell arrays. <i>PLoS ONE</i> , 2019, 14, e0214878.	2.5	2
83	Silicon nanowire FET arrays for real time detection of chemical activation of cells. , 2012, , .		1