

Jan Vos

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

3,682
citations

159525

30
h-index

206029

48
g-index

52
all docs

52
docs citations

52
times ranked

3480
citing authors

#	ARTICLE	IF	CITATIONS
1	A Flexible Sigmoid Function of Determinate Growth. <i>Annals of Botany</i> , 2003, 91, 361-371.	1.4	594
2	Functional structural plant modelling: a new versatile tool in crop science. <i>Journal of Experimental Botany</i> , 2010, 61, 2101-2115.	2.4	434
3	Effect of nitrogen supply on leaf appearance, leaf growth, leaf nitrogen economy and photosynthetic capacity in maize (<i>Zea mays</i> L.). <i>Field Crops Research</i> , 2005, 93, 64-73.	2.3	204
4	Using combined measurements of gas exchange and chlorophyll fluorescence to estimate parameters of a biochemical C ₃ photosynthesis model: a critical appraisal and a new integrated approach applied to leaves in a wheat (<i>Triticum aestivum</i>) canopy. <i>Plant, Cell and Environment</i> , 2009, 32, 448-464.	2.8	201
5	Cessation of Tillering in Spring Wheat in Relation to Light Interception and Red : Far-red Ratio. <i>Annals of Botany</i> , 2006, 97, 649-658.	1.4	168
6	The contribution of phenotypic plasticity to complementary light capture in plant mixtures. <i>New Phytologist</i> , 2015, 207, 1213-1222.	3.5	143
7	Effect of nitrogen supply on leaf growth, leaf nitrogen economy and photosynthetic capacity in potato. <i>Field Crops Research</i> , 1998, 59, 63-72.	2.3	122
8	Simulation of wheat growth and development based on organ-level photosynthesis and assimilate allocation. <i>Journal of Experimental Botany</i> , 2010, 61, 2203-2216.	2.4	111
9	Towards a generic architectural model of tillering in Gramineae, as exemplified by spring wheat (<i>Triticum aestivum</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.5	98
10	Understanding shoot branching by modelling form and function. <i>Trends in Plant Science</i> , 2011, 16, 464-467.	4.3	96
11	Photosynthesis and stomatal conductance of potato leaves?effects of leaf age, irradiance, and leaf water potential. <i>Photosynthesis Research</i> , 1987, 11, 253-264.	1.6	89
12	Phenological growth stages of <i>Cynara cardunculus</i> : codification and description according to the BBCH scale. <i>Annals of Applied Biology</i> , 2010, 156, 253-270.	1.3	88
13	Simulating the effects of localized red:far-red ratio on tillering in spring wheat (<i>Triticum aestivum</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.5	84
14	Towards a functional structural plant model of cut-rose: simulation of light environment, light absorption, photosynthesis and interference with the plant structure. <i>Annals of Botany</i> , 2011, 108, 1121-1134.	1.4	82
15	Title is missing!. <i>Plant and Soil</i> , 1997, 195, 299-309.	1.8	80
16	Nitrogen Responses and Nitrogen Management in Potato. <i>Potato Research</i> , 2009, 52, 305-317.	1.2	79
17	An architectural model of spring wheat: Evaluation of the effects of population density and shading on model parameterization and performance. <i>Ecological Modelling</i> , 2007, 200, 308-320.	1.2	65
18	Phyllochron responds to acclimation to temperature and irradiance in maize. <i>Field Crops Research</i> , 1998, 59, 187-200.	2.3	56

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19	Root growth of potato crops on a marine-clay soil. <i>Plant and Soil</i> , 1986, 94, 17-33.	1.8	54
20	Simulation of the three-dimensional distribution of the red:far-red ratio within crop canopies. <i>New Phytologist</i> , 2007, 176, 223-234.	3.5	54
21	Nutrient cycling in a cropping system with potato, spring wheat, sugar beet, oats and nitrogen catch crops. II. Effect of catch crops on nitrate leaching in autumn and winter. <i>Nutrient Cycling in Agroecosystems</i> , 2004, 70, 23-31.	1.1	51
22	Early competition shapes maize whole-plant development in mixed stands. <i>Journal of Experimental Botany</i> , 2014, 65, 641-653.	2.4	50
23	Leaf photosynthesis and respiration of three bioenergy crops in relation to temperature and leaf nitrogen: how conserved are biochemical model parameters among crop species?. <i>Journal of Experimental Botany</i> , 2012, 63, 895-911.	2.4	47
24	Modelling kinetics of plant canopy architecture concepts and applications. <i>European Journal of Agronomy</i> , 2003, 19, 519-533.	1.9	46
25	Plant development and leaf area production in contrasting cultivars of maize grown in a cool temperate environment in the field. <i>European Journal of Agronomy</i> , 2003, 19, 173-188.	1.9	45
26	Estimation of root densities by observation tubes and endoscope. <i>Plant and Soil</i> , 1983, 74, 295-300.	1.8	42
27	Split nitrogen application in potato: effects on accumulation of nitrogen and dry matter in the crop and on the soil nitrogen budget. <i>Journal of Agricultural Science</i> , 1999, 133, 263-274.	0.6	38
28	The Derivation of Sink Functions of Wheat Organs using the GREENLAB Model. <i>Annals of Botany</i> , 2007, 101, 1099-1108.	1.4	38
29	Tree management and environmental conditions affect coffee (<i>Coffea arabica</i> L.) bean quality. <i>Njas - Wageningen Journal of Life Sciences</i> , 2017, 83, 39-46.	7.9	38
30	Field observations on nitrogen catch crops. <i>Plant and Soil</i> , 1998, 201, 149-155.	1.8	37
31	Growth duration and root length density of <i>Solanum sisymbriifolium</i> (Lam.) as determinants of hatching of <i>Globodera pallida</i> (Stone). <i>Annals of Applied Biology</i> , 2006, 148, 213-222.	1.3	31
32	Branch growth dynamics, photosynthesis, yield and bean size distribution in response to fruit load manipulation in coffee trees. <i>Trees - Structure and Function</i> , 2016, 30, 1275-1285.	0.9	31
33	Title is missing!. <i>Nutrient Cycling in Agroecosystems</i> , 2000, 56, 87-97.	1.1	30
34	Field observations on nitrogen catch crops. III. Transfer of nitrogen to the succeeding main crop. <i>Plant and Soil</i> , 2001, 236, 263-273.	1.8	29
35	Yield formation and tillering dynamics of direct-seeded rice in flooded and nonflooded soils in the Huai River Basin of China. <i>Field Crops Research</i> , 2010, 116, 252-259.	2.3	29
36	Estimation of leaf area for large scale phenotyping and modeling of rose genotypes. <i>Scientia Horticulturae</i> , 2012, 138, 227-234.	1.7	26

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37	Effects of partial shading of the potato plant on photosynthesis of treated leaves, leaf area expansion and allocation of nitrogen and dry matter in component plant parts. <i>European Journal of Agronomy</i> , 2001, 14, 209-220.	1.9	23
38	Modeling branching in cereals. <i>Frontiers in Plant Science</i> , 2013, 4, 399.	1.7	21
39	Germination rates of <i>Solanum sisymbriifolium</i> : temperature response models, effects of temperature fluctuations and soil water potential. <i>Seed Science Research</i> , 2007, 17, 221-231.	0.8	20
40	Towards modelling the flexible timing of shoot development: simulation of maize organogenesis based on coordination within and between phytomers. <i>Annals of Botany</i> , 2014, 114, 753-762.	1.4	18
41	Field performance of <i>Solanum sisymbriifolium</i> , a trap crop for potato cyst nematodes. I. Dry matter accumulation in relation to sowing time, location, season and plant density. <i>Annals of Applied Biology</i> , 2007, 150, 89-97.	1.3	16
42	Input and offtake of nitrogen, phosphorus and potassium in cropping systems with potato as a main crop and sugar beet and spring wheat as subsidiary crops. <i>European Journal of Agronomy</i> , 1996, 5, 105-114.	1.9	13
43	Modelling of Spatial Light Distribution in the Greenhouse: Description of the Model. , 2009, , .		12
44	Photoperiodism in <i>Eragrostis tef</i> : Analysis of ontogeny and morphology in response to photoperiod. <i>European Journal of Agronomy</i> , 2012, 37, 105-114.	1.9	12
45	Field performance of <i>Solanum sisymbriifolium</i> , a trap crop for potato cyst nematodes. II. Root characteristics. <i>Annals of Applied Biology</i> , 2007, 150, 99-106.	1.3	10
46	A case history: Hundred years of potato production in Europe with special reference to the Netherlands. <i>American Potato Journal</i> , 1992, 69, 731-751.	0.4	9
47	Four Hypotheses to Explain Axillary Budbreak after Removal of Flower Shoots in a Cut-rose Crop. <i>Journal of the American Society for Horticultural Science</i> , 2013, 138, 243-252.	0.5	7
48	The development, validation and application of a crop growth model to assess the potential of <i>Solanum sisymbriifolium</i> as a trap crop for potato cyst nematodes in Europe. <i>Field Crops Research</i> , 2009, 111, 22-31.	2.3	6
49	Report of the Meeting of the Section Physiology of the EAPR, Kiryat Anavim (Israel), May 29 – June 4, 1988. <i>Potato Research</i> , 1989, 32, 214-222.	1.2	5
50	Report of the Meeting of the Section Physiology of the EAPR, Gro L��sewitz (GDR), June 26 – July 1, 1989. <i>Potato Research</i> , 1990, 33, 291-310.	1.2	0
51	Technological Feasibility. , 2006, , 51-98.		0