Frits K Van Evert

List of Publications by Year
in descending order

34 papers	1,252 citations	331670 21 h-index	395702 33 g-index
35 all docs	35 docs citations	35 times ranked	1565 citing authors

#	Article	IF	Citations
1	Laser range finder model for autonomous navigation of a robot in a maize field using a particle filter. Computers and Electronics in Agriculture, 2014, 100, 41-50.	7.7	116
2	Is it possible to increase the sustainability of arable and ruminant agriculture by reducing inputs?. Agricultural Systems, 2009, 99, 117-125.	6.1	94
3	Robot navigation in orchards with localization based on Particle filter and Kalman filter. Computers and Electronics in Agriculture, 2019, 157, 261-269.	7.7	86
4	Big Data for weed control and crop protection. Weed Research, 2017, 57, 218-233.	1.7	64
5	Agronomic effects of bovine manure: A review of long-term European field experiments. European Journal of Agronomy, 2017, 90, 127-138.	4.1	59
6	Can Precision Agriculture Increase the Profitability and Sustainability of the Production of Potatoes and Olives?. Sustainability, 2017, 9, 1863.	3.2	58
7	A robot to detect and control broadâ€leaved dock (Rumex obtusifolius L.) in grassland. Journal of Field Robotics, 2011, 28, 264-277.	6.0	57
8	Smart Farming Technology Trends: Economic and Environmental Effects, Labor Impact, and Adoption Readiness. Agronomy, 2020, 10, 743.	3.0	55
9	A framework for evaluating the sustainability of agricultural production systems. Renewable Agriculture and Food Systems, 1994, 9, 45-50.	0.5	54
10	The ModCom modular simulation system. European Journal of Agronomy, 2003, 18, 333-343.	4.1	54
11	A protocol for evaluating the sustainability of agri-food production systemsâ€"A case study on potato production in peri-urban agriculture in The Netherlands. Ecological Indicators, 2014, 43, 315-321.	6.3	47
12	Comparison of models used for national agricultural ammonia emission inventories in Europe: Liquid manure systems. Atmospheric Environment, 2008, 42, 3452-3464.	4.1	44
13	Realâ€time visionâ€based detection of Rumex obtusifolius in grassland. Weed Research, 2009, 49, 164-174.	1.7	44
14	Using crop reflectance to determine sidedress N rate in potato saves N and maintains yield. European Journal of Agronomy, 2012, 43, 58-67.	4.1	44
15	Advances in Variable Rate Technology Application in Potato in The Netherlands. Potato Research, 2017, 60, 295-305.	2.7	43
16	CropSyst: A Collection of Objectâ€Oriented Simulation Models of Agricultural Systems. Agronomy Journal, 1994, 86, 325-331.	1.8	41
17	Imaging Spectroscopy for On-Farm Measurement of Grassland Yield and Quality. Agronomy Journal, 2006, 98, 1318-1325.	1.8	36
18	Worldwide Sustainability Hotspots in Potato Cultivation. 1. Identification and Mapping. Potato Research, 2013, 56, 343-353.	2.7	31

#	Article	IF	Citations
19	Moving integrated weed management from low level to a truly integrated and highly specific weed management system using advanced technologies. Weed Research, 2017, 57, 1-5.	1.7	28
20	A Mobile Field Robot with Vision-Based Detection of Volunteer Potato Plants in a Corn Crop. Weed Technology, 2006, 20, 853-861.	0.9	27
21	Image-based particle filtering for navigation in a semi-structured agricultural environment. Biosystems Engineering, 2014, 121, 85-95.	4.3	23
22	Publishing Agronomic Data. Agronomy Journal, 2008, 100, 1396-1400.	1.8	16
23	A Database for Agroecological Research Data: I. Data Model. Agronomy Journal, 1999, 91, 54-62.	1.8	15
24	Long-term effects of best management practices on crop yield and nitrogen surplus. Italian Journal of Agronomy, 2015, 10, 47-50.	1.0	15
25	Benchmarking the sustainability performance of the Brazilian non-GM and GM soybean meal chains: An indicator-based approach. Food Policy, 2015, 55, 22-32.	6.0	14
26	Assessing the Sustainability Performance of Coffee Farms in Vietnam: A Social Profit Inefficiency Approach. Sustainability, 2018, 10, 4227.	3.2	14
27	A Database for Agroecological Research Data: II. A Relational Implementation. Agronomy Journal, 1999, 91, 62-71.	1.8	13
28	Satellite-based herbicide rate recommendation for potato haulm killing. European Journal of Agronomy, 2012, 43, 49-57.	4.1	13
29	Weekly defoliation controls, but does not kill broadâ€leaved dock (Rumex obtusifolius). Weed Research, 2020, 60, 161-170.	1.7	13
30	The role of textures to improve the detection accuracy of Rumex obtusifolius in robotic systems. Weed Research, 2012, 52, 430-440.	1.7	11
31	Supply chains for processed potato and tomato products in the United States will have enhanced resilience with planting adaptation strategies. Nature Food, 2021, 2, 862-872.	14.0	10
32	Worldwide Sustainability Hotspots in Potato Cultivation. 2. Areas with Improvement Opportunities. Potato Research, 2013, 56, 355-368.	2.7	6
33	UAV-based Multispectral & Thermal dataset for exploring the diurnal variability, radiometric & geometric accuracy for precision agriculture. Open Data Journal for Agricultural Research, 0, 6, 1-7.	1.3	4
34	Improving access to research outcomes for innovation in agriculture and forestry: the VALERIE project. Italian Journal of Agronomy, 2017, 12, .	1.0	3