Svend Christensen

List of Publications by Year
in descending order

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48	2,990	236612	205818
papers	citations	25 h-index	48 g-index

50	50	50	3120
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Colour and shape analysis techniques for weed detection in cereal fields. Computers and Electronics in Agriculture, 2000, 25, 197-212.	3.7	315
2	Innovation can accelerate the transition towards a sustainable food system. Nature Food, 2020, 1, 266-272.	6.2	285
3	Plant phenomics and the need for physiological phenotyping across scales to narrow the genotype-to-phenotype knowledge gap. Journal of Experimental Botany, 2015, 66, 5429-5440.	2.4	217
4	Are vegetation indices derived from consumer-grade cameras mounted on UAVs sufficiently reliable for assessing experimental plots?. European Journal of Agronomy, 2016, 74, 75-92.	1.9	201
5	Siteâ€specific weed control technologies. Weed Research, 2009, 49, 233-241.	0.8	168
6	Real-time weed detection, decision making and patch spraying in maize, sugarbeet, winter wheat and winter barley. Weed Research, 2003, 43, 385-392.	0.8	147
7	Articulating the effect of food systems innovation on the Sustainable Development Goals. Lancet Planetary Health, The, 2021, 5, e50-e62.	5.1	135
8	Weed suppression ability of spring barley varieties. Weed Research, 1995, 35, 241-247.	0.8	131
9	Potential uses of small unmanned aircraft systems (<scp>UAS</scp>) in weed research. Weed Research, 2013, 53, 242-248.	0.8	122
10	Monitoring and classifying animal behavior using ZigBee-based mobile ad hoc wireless sensor networks and artificial neural networks. Computers and Electronics in Agriculture, 2012, 82, 44-54.	3.7	114
11	Crop weed competition and herbicide performance in cereal species and varieties. Weed Research, 1994, 34, 29-36.	0.8	82
12	Deriving light interception and biomass from spectral reflectance ratio. Remote Sensing of Environment, 1993, 43, 87-95.	4.6	79
13	Reviewing research priorities in weed ecology, evolution and management: a horizon scan. Weed Research, 2018, 58, 250-258.	0.8	78
14	The Effect of Laser Treatment as a Weed Control Method. Biosystems Engineering, 2006, 95, 497-505.	1.9	74
15	Simulation of above-ground suppression of competing species and competition tolerance in winter wheat varieties. Field Crops Research, 2004, 89, 263-280.	2.3	66
16	Prediction of the competitive effects of weeds on crop yields based on the relative leaf area of weeds. Weed Research, 1996, 36, 93-101.	0.8	65
17	Spatial correlation between weed species densities and soil properties. Weed Research, 2002, 42, 26-38.	0.8	63
18	Ecologically sustainable weed management: How do we get from proofâ€ofâ€concept to adoption?. Ecological Applications, 2016, 26, 1352-1369.	1.8	63

#	Article	IF	Citations
19	Development of a Mobile Multispectral Imaging Platform for Precise Field Phenotyping. Agronomy, 2014, 4, 322-336.	1.3	53
20	Advances in siteâ€specific weed management in agricultureâ€”A review. Weed Research, 2022, 62, 123-133.	0.8	53
21	Cutting weeds with a CO2 laser. Weed Research, 2001, 41, 19-29.	0.8	50
22	A decision algorithm for patch spraying. Weed Research, 2003, 43, 276-284.	0.8	38
23	Using CA model to obtain insight into mechanism of plant population spread in a controllable system: annual weeds as an example. Ecological Modelling, 2003, 166, 277-286.	1.2	35
24	Transdisciplinary weed research: new leverage on challenging weed problems?. Weed Research, 2016, 56, 345-358.	0.8	27
25	Extension of Plant Phenotypes by the Foliar Microbiome. Annual Review of Plant Biology, 2021, 72, 823-846.	8.6	27
26	Contribution of the seed microbiome to weed management. Weed Research, 2016, 56, 335-339.	0.8	20
27	The challenge of reproducing remote sensing data from satellites and unmanned aerial vehicles (UAVs) in the context of management zones and precision agriculture. Precision Agriculture, 2021, 22, 834-851.	3.1	20
28	Can reproducible comparisons of cereal genotypes be generated in field experiments based on UAV imagery using RGB cameras?. European Journal of Agronomy, 2019, 106, 49-57.	1.9	19
29	Non-destructive assessment of growth parameters in spring barley. European Journal of Agronomy, 1992, 1, 187-193.	1.9	18
30	Using laser to measure stem thickness and cut weed stems. Weed Research, 2002, 42, 242-248.	0.8	18
31	Sugarbeet yield response to competition from Sinapis arvensis or Lolium perenne growing at three different distances from the beet and removed at various times during early growth. Weed Research, 2002, 42, 406-413.	0.8	17
32	Siteâ€specific weed managementâ€”constraints and opportunities for the weed research community: Insights from a workshop. Weed Research, 2021, 61, 147-153.	0.8	17
33	Energy generation for an ad hoc wireless sensor network-based monitoring system using animal head movement. Computers and Electronics in Agriculture, 2011, 75, 238-242.	3.7	16
34	A new method to estimate the spatial correlation between planned and actual patch spraying of herbicides. Precision Agriculture, 2020, 21, 713-728.	3.1	16
35	Imageâ€based thresholds for weeds in maize fields. Weed Research, 2015, 55, 26-33.	0.8	15
36	Sensorâ€based assessment of herbicide effects. Weed Research, 2014, 54, 223-233.	0.8	13

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37	Manual geo-rectification to improve the spatial accuracy of ortho-mosaics based on images from consumer-grade unmanned aerial vehicles (UAVs). Precision Agriculture, 2019, 20, 1199-1210.	3.1	10
38	The importance of spectral correction of UAV-based phenotyping with RGB cameras. Field Crops Research, 2021, 269, 108177.	2.3	10
39	The Effects of Cultivar, Nitrogen Supply and Soil Type on Radiation Use Efficiency and Harvest Index in Spring Wheat. Agronomy, 2020, 10, 1391.	1.3	9
40	Identification of a bio-signature for barley resistance against Pyrenophora teres infection based on physiological, molecular and sensor-based phenotyping. Plant Science, 2021, 313, 111072.	1.7	9
41	Deconstructing crop processes and models via identities. Plant, Cell and Environment, 2013, 36, 1919-1925.	2.8	7
42	OvaSpec â€“ A vision-based instrument for assessing concentration and developmental stage of Trichuris suis parasite egg suspensions. Computers in Biology and Medicine, 2014, 53, 94-104.	3.9	7
43	Quantitative laser cutting of plants. , 2002, , .		3
44	A method for building spatial model of annual weed seed dispersal from experimental data and its application to simulating Bromus sterilis population dispersal. Ecological Modelling, 2008, 210, 446-452.	1.2	3
45	Deconstructing agronomic resource use efficiencies to increase food production. Italian Journal of Agronomy, 2021, 16, .	0.4	2
46	Sensing for Weed Detection. Progress in Precision Agriculture, 2021, , 275-300.	1.1	2
47	A Digital Camera System for Weed Detection. Assa, Cssa and Sssa, 0, , 1569-1577.	0.6	1
48	The mathematical method of studying the reproduction structure of weeds and its application to Bromus sterilis. Discrete and Continuous Dynamical Systems - Series B, 2004, 4, 777-788.	0.5	1