

Mats SÅnderstrÅm

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

1,353
citations

393982

19
h-index

360668

35
g-index

58
all docs

58
docs citations

58
times ranked

1849
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil Resources Influence Spatial Patterns of Denitrifying Communities at Scales Compatible with Land Management. <i>Applied and Environmental Microbiology</i> , 2010, 76, 2243-2250.	1.4	202
2	Spatial distribution of ammonia-oxidizing bacteria and archaea across a 44-hectare farm related to ecosystem functioning. <i>ISME Journal</i> , 2011, 5, 1213-1225.	4.4	130
3	In-field distribution of <i>Plasmiodiophora brassicae</i> measured using quantitative real-time PCR. <i>Plant Pathology</i> , 2012, 61, 16-28.	1.2	79
4	The use of near infrared (NIR) spectroscopy to improve soil mapping at the farm scale. <i>Precision Agriculture</i> , 2008, 9, 57-69.	3.1	75
5	Increased sample point density in farm soil mapping by local calibration of visible and near infrared prediction models. <i>Geoderma</i> , 2010, 156, 152-160.	2.3	73
6	Spatial and phylogeographical analyses of nosZ genes underscore niche differentiation amongst terrestrial N ₂ O reducing communities. <i>Soil Biology and Biochemistry</i> , 2017, 115, 82-91.	4.2	52
7	Digital soil mapping of arable land in Sweden – Validation of performance at multiple scales. <i>Geoderma</i> , 2019, 352, 342-350.	2.3	52
8	Sensor data fusion for topsoil clay mapping. <i>Geoderma</i> , 2013, 199, 106-116.	2.3	51
9	Perspectives on validation in digital soil mapping of continuous attributes – A review. <i>Soil Use and Management</i> , 2021, 37, 7-21.	2.6	44
10	Tile drain losses of nitrogen and phosphorus from fields under integrated and organic crop rotations. A four-year study on a clay soil in southwest Sweden. <i>Science of the Total Environment</i> , 2012, 434, 79-89.	3.9	39
11	Adaptation of regional digital soil mapping for precision agriculture. <i>Precision Agriculture</i> , 2016, 17, 588-607.	3.1	37
12	Determining soil properties in Amazonian Dark Earths by reflectance spectroscopy. <i>Geoderma</i> , 2015, 237-238, 308-317.	2.3	32
13	Exploring the predictability of soil texture and organic matter content with a commercial integrated soil profiling tool. <i>European Journal of Soil Science</i> , 2015, 66, 631-638.	1.8	28
14	Precision Agriculture for Resource Use Efficiency in Smallholder Farming Systems in Sub-Saharan Africa: A Systematic Review. <i>Sustainability</i> , 2021, 13, 1158.	1.6	27
15	Prediction of protein content in malting barley using proximal and remote sensing. <i>Precision Agriculture</i> , 2010, 11, 587-599.	3.1	25
16	Canopy reflectance, thermal stress, and apparent soil electrical conductivity as predictors of within-field variability in grain yield and grain protein of malting barley. <i>Precision Agriculture</i> , 2006, 7, 343-359.	3.1	22
17	Predictions of Cu, Zn, and Cd Concentrations in Soil Using Portable X-Ray Fluorescence Measurements. <i>Sensors</i> , 2020, 20, 474.	2.1	22
18	Three-dimensional digital soil mapping of agricultural fields by integration of multiple proximal sensor data obtained from different sensing methods. <i>Precision Agriculture</i> , 2015, 16, 29-45.	3.1	21

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19	Performance Evaluation of Proximal Sensors for Soil Assessment in Smallholder Farms in Embu County, Kenya. <i>Sensors</i> , 2016, 16, 1950.	2.1	21
20	Improvement of spatial modelling of crop suitability using a new digital soil map of Tanzania. <i>South African Journal of Plant and Soil</i> , 2017, 34, 243-254.	0.4	20
21	Potential for soil organic carbon sequestration in grasslands in East African countries: A review. <i>Grassland Science</i> , 2020, 66, 135-144.	0.6	20
22	Assessment of local agroclimatological conditions—a methodology. <i>Agricultural and Forest Meteorology</i> , 1995, 72, 243-260.	1.9	19
23	Soil Organic Carbon Baselines for Land Degradation Neutrality: Map Accuracy and Cost Tradeoffs with Respect to Complexity in Otjozondjupa, Namibia. <i>Sustainability</i> , 2018, 10, 1610.	1.6	18
24	Footprint and height corrections for UAV-borne gamma-ray spectrometry studies. <i>Journal of Environmental Radioactivity</i> , 2021, 231, 106545.	0.9	18
25	Gamma-ray spectrometry and geological maps as tools for cadmium risk assessment in arable soils. <i>Geoderma</i> , 2013, 192, 323-334.	2.3	17
26	Sensor mapping of Amazonian Dark Earths in deforested croplands. <i>Geoderma</i> , 2016, 281, 58-68.	2.3	17
27	Precision agriculture research in sub-Saharan Africa countries: a systematic map. <i>Precision Agriculture</i> , 2021, 22, 1217-1236.	3.1	16
28	Producing nitrogen (N) uptake maps in winter wheat by combining proximal crop measurements with Sentinel-2 and DMC satellite images in a decision support system for farmers. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2017, 67, 637-650.	0.3	15
29	Estimating spatially distributed SOC sequestration potentials of sustainable land management practices in Ethiopia. <i>Journal of Environmental Management</i> , 2021, 286, 112191.	3.8	13
30	Modelling within-field variations in deoxynivalenol (DON) content in oats using proximal and remote sensing. <i>Precision Agriculture</i> , 2015, 16, 1-14.	3.1	12
31	Risk assessment of high concentrations of molybdenum in forage. <i>Environmental Geochemistry and Health</i> , 2018, 40, 2685-2694.	1.8	12
32	Soil organic carbon in agricultural systems of six countries in East Africa—a literature review of status and carbon sequestration potential. <i>South African Journal of Plant and Soil</i> , 2020, 37, 35-49.	0.4	11
33	Influence of input uncertainty on prediction of within-field pesticide leaching risks. <i>Journal of Contaminant Hydrology</i> , 2008, 98, 106-114.	1.6	10
34	Effects of breed on foraging sites and diets in dairy cows on mountain pasture. <i>International Journal of Biodiversity Science, Ecosystem Services & Management</i> , 2014, 10, 334-342.	2.9	10
35	Using proximal soil sensors and fuzzy classification for mapping Amazonian Dark Earths. <i>Agricultural and Food Science</i> , 2013, 22, 380-389.	0.3	10
36	Cadmium in Soil and Winter Wheat Grain in Southern Sweden: I. Factors Influencing Cd Levels in Soils and Grain. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 1996, 46, 240-248.	0.3	9

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37	Spatial patterns of essential trace element concentrations in Swedish soils and crops. <i>Geoderma Regional</i> , 2017, 10, 163-174.	0.9	8
38	Local adaptation of a national digital soil map for use in precision agriculture. <i>Advances in Animal Biosciences</i> , 2017, 8, 430-432.	1.0	8
39	Upscaling proximal sensor N-uptake predictions in winter wheat (<i>Triticum aestivum</i> L.) with Sentinel-2 satellite data for use in a decision support system. <i>Precision Agriculture</i> , 2021, 22, 1263-1283.	3.1	8
40	Performance of Soil Electrical Conductivity and Different Methods for Mapping Soil Data from a Small Dataset. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2002, 52, 127-135.	0.3	7
41	Improved usefulness of continental soil databases for agricultural management through local adaptation. <i>South African Journal of Plant and Soil</i> , 2017, 34, 35-45.	0.4	7
42	Optimizing gamma-ray spectrometers for UAV-borne surveys with geophysical applications. <i>Journal of Environmental Radioactivity</i> , 2021, 237, 106717.	0.9	7
43	Geostatistical modeling of salinity as a basis for irrigation management and crop selection – A case study in central Tunisia. <i>Environmental Geology and Water Sciences</i> , 1992, 20, 85-92.	0.4	4
44	Modelling local heavy metal distribution: A study of chromium in soil and wheat at a ferrochrome smelter in South-Western Sweden. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 1998, 48, 2-10.	0.3	4
45	Predicting deoxynivalenol in oats under conditions representing Scandinavian production regions. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2017, 34, 1026-1038.	1.1	4
46	Cadmium in Soil and Winter Wheat Grain in Southern Sweden: II. Geographical Distribution and its Relation to Substratum. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 1996, 46, 249-257.	0.3	3
47	Constructing a layered electrical conductivity model using <i>k_i</i> nearest-neighbour predictions and a combination of two proximal sensors. <i>European Journal of Soil Science</i> , 2014, 65, 816-826.	1.8	3
48	A Boundary Plane Approach to Map Hotspots for Achievable Soil Carbon Sequestration and Soil Fertility Improvement. <i>Sustainability</i> , 2019, 11, 4038.	1.6	3
49	Cokriging of Heavy Metals as an Aid to Biogeochemical Mapping. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 1996, 46, 1-8.	0.3	2
50	Satellite-based modelling of protein content in winter wheat and malting barley. , 2019, , .		2
51	Near-real time winter wheat N uptake from a combination of proximal and remote optical measurements: how to refine Sentinel-2 satellite images for use in a precision agriculture decision support system. , 2019, , .		2
52	Combining Crop Growth Models and Geographical Information Systems for Agricultural Management: A Case Study of Ley Production Potential as Affected by Local Temperature Variation and Soil Water Capacity. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 1994, 44, 65-74.	0.3	1
53	CropSAT – A Decision Support System for Practical Use of Satellite Images in Precision Agriculture. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 415-421.	0.3	1
54	Herd and environmental determinants of reproductive performance in Swedish dairy herds, 2001–2009. <i>Spatial and Spatio-temporal Epidemiology</i> , 2019, 31, 100299.	0.9	0

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55	Gamma Ray Sensing for Cadmium Risk Assessment in Agricultural Soil and Grain: A Case Study in Southern Sweden. , 2010, , 333-342.		0
56	Automated mixed-scale data fusion for mapping of within-field variation in a national decision support system - the example of pH correction. , 2019, , .		0
57	Predicting grain protein concentration in winter wheat (<i>Triticum aestivum</i> L.) based on unpiloted aerial vehicle multispectral optical remote sensing. Acta Agriculturae Scandinavica - Section B Soil and Plant Science, 2022, 72, 788-802.	0.3	0