

List of Publications by Year in descending order

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52
papers

1,200
citations

331538

21
h-index

414303

32
g-index

54
all docs

54
docs citations

54
times ranked

1495
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing and Testing a UAV Mapping System for Agricultural Field Surveying. <i>Sensors</i> , 2017, 17, 2703.	2.1	132
2	Methane production potential from <i>Miscanthus</i> sp.: Effect of harvesting time, genotypes and plant fractions. <i>Biosystems Engineering</i> , 2015, 133, 71-80.	1.9	65
3	Productivity and carbon footprint of perennial grass-forage legume intercropping strategies with high or low nitrogen fertilizer input. <i>Science of the Total Environment</i> , 2016, 541, 1339-1347.	3.9	64
4	Quantification of fructan concentration in grasses using NIR spectroscopy and PLSR. <i>Field Crops Research</i> , 2011, 120, 31-37.	2.3	62
5	Single seed near-infrared hyperspectral imaging in determining tomato (<i>Solanum lycopersicum</i> L.) seed quality in association with multivariate data analysis. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 1027-1034.	4.0	51
6	Use of Multispectral Imaging in Varietal Identification of Tomato. <i>Sensors</i> , 2015, 15, 4496-4512.	2.1	45
7	Predicting heavy metal contents by applying machine learning approaches and environmental covariates in west of Iran. <i>Journal of Geochemical Exploration</i> , 2022, 233, 106921.	1.5	45
8	Viability Prediction of <i>Ricinus communis</i> L. Seeds Using Multispectral Imaging. <i>Sensors</i> , 2015, 15, 4592-4604.	2.1	43
9	Comparing predictive ability of laser-induced breakdown spectroscopy to visible near-infrared spectroscopy for soil property determination. <i>Biosystems Engineering</i> , 2017, 156, 157-172.	1.9	43
10	Segmentation of lettuce in coloured 3D point clouds for fresh weight estimation. <i>Computers and Electronics in Agriculture</i> , 2018, 154, 373-381.	3.7	43
11	Classification of different tomato seed cultivars by multispectral visible-near infrared spectroscopy and chemometrics. <i>Journal of Spectral Imaging</i> , 0, , .	0.0	33
12	Optimal Sample Size for Predicting Viability of Cabbage and Radish Seeds Based on near Infrared Spectra of Single Seeds. <i>Journal of Near Infrared Spectroscopy</i> , 2011, 19, 451-461.	0.8	32
13	Predicting Soil Organic Carbon at Field Scale Using a National Soil Spectral Library. <i>Journal of Near Infrared Spectroscopy</i> , 2013, 21, 213-222.	0.8	32
14	Quantification of SOC and Clay Content Using Visible Near-Infrared Reflectance-Mid-Infrared Reflectance Spectroscopy With Jack-Knifing Partial Least Squares Regression. <i>Soil Science</i> , 2014, 179, 325-332.	0.9	32
15	Estimation of the Botanical Composition of Clover-Grass Leys from RGB Images Using Data Simulation and Fully Convolutional Neural Networks. <i>Sensors</i> , 2017, 17, 2930.	2.1	31
16	Visible-Near-Infrared Spectroscopy Can Predict the Clay/Organic Carbon and Mineral Fines/Organic Carbon Ratios. <i>Soil Science Society of America Journal</i> , 2016, 80, 1486-1495.	1.2	29
17	Separation of viable and non-viable tomato (<i>Solanum lycopersicum</i> L.) seeds using single seed near-infrared spectroscopy. <i>Computers and Electronics in Agriculture</i> , 2017, 142, 348-355.	3.7	26
18	Development of NIR calibration models to assess year-to-year variation in total non-structural carbohydrates in grasses using PLSR. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2012, 111, 34-38.	1.8	25

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19	Estimating the nitrogen nutrition index in grass seed crops using a UAV-mounted multispectral camera. <i>International Journal of Remote Sensing</i> , 2019, 40, 2467-2482.	1.3	25
20	The Use of Image-Spectroscopy Technology as a Diagnostic Method for Seed Health Testing and Variety Identification. <i>PLoS ONE</i> , 2016, 11, e0152011.	1.1	25
21	Validity of accessible critical nitrogen dilution curves in perennial ryegrass for seed production. <i>Field Crops Research</i> , 2009, 111, 152-156.	2.3	22
22	Use of partial least squares discriminant analysis on visible-near infrared multispectral image data to examine germination ability and germ length in spinach seeds. <i>Journal of Chemometrics</i> , 2012, 26, 462-466.	0.7	22
23	Classification of Viable and Non-Viable Spinach (<i>Spinacia Oleracea</i> L.) Seeds by Single Seed near Infrared Spectroscopy and Extended Canonical Variates Analysis. <i>Journal of Near Infrared Spectroscopy</i> , 2011, 19, 171-180.	0.8	21
24	Prediction of biogas yield and its kinetics in reed canary grass using near infrared reflectance spectroscopy and chemometrics. <i>Bioresource Technology</i> , 2013, 146, 282-287.	4.8	21
25	Correlation of Deoxynivalenol Accumulation in Fusarium-Infected Winter and Spring Wheat Cultivars with Secondary Metabolites at Different Growth Stages. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 4545-4555.	2.4	21
26	The effect of harvest time, dry matter content and mechanical pretreatments on anaerobic digestion and enzymatic hydrolysis of miscanthus. <i>Bioresource Technology</i> , 2016, 218, 1008-1015.	4.8	17
27	Grain protein concentration and harvestable protein under future climate conditions. A study of 108 spring barley accessions. <i>Journal of Experimental Botany</i> , 2016, 67, 2151-2158.	2.4	16
28	Seed yield response to N fertilization and potential of proximal sensing in Italian ryegrass seed crops. <i>Field Crops Research</i> , 2017, 211, 37-47.	2.3	16
29	The Use of Multispectral Imaging and Single Seed and Bulk Near-Infrared Spectroscopy to Characterize Seed Covering Structures: Methods and Applications in Seed Testing and Research. <i>Agriculture (Switzerland)</i> , 2021, 11, 301.	1.4	16
30	Path and Ridge Regression Analysis of Seed Yield and Seed Yield Components of Russian Wildrye (<i>Psathyrostachys juncea</i> Nevski) under Field Conditions. <i>PLoS ONE</i> , 2011, 6, e18245.	1.1	15
31	Effects of winter wheat N status on assimilate and N partitioning in the mechanistic agroecosystem model DAISY. <i>Journal of Agronomy and Crop Science</i> , 2020, 206, 784-805.	1.7	12
32	Changes in spatiotemporal protein and amino acid gradients in wheat caryopsis after N-topdressing. <i>Plant Science</i> , 2020, 291, 110336.	1.7	11
33	Are ant feces nutrients for plants? A metabolomics approach to elucidate the nutritional effects on plants hosting weaver ants. <i>Metabolomics</i> , 2015, 11, 1013-1028.	1.4	10
34	Characterisation of Castor (<i>Ricinus communis</i> L.) Seed Quality Using Fourier Transform Near-Infrared Spectroscopy in Combination with Multivariate Data Analysis. <i>Agriculture (Switzerland)</i> , 2018, 8, 59.	1.4	10
35	Manual geo-rectification to improve the spatial accuracy of ortho-mosaics based on images from consumer-grade unmanned aerial vehicles (UAVs). <i>Precision Agriculture</i> , 2019, 20, 1199-1210.	3.1	10
36	A simulation of variable rate nitrogen application in winter wheat with soil and sensor information - An economic feasibility study. <i>Agricultural Systems</i> , 2021, 192, 103147.	3.2	10

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37	Non-destructive biomass estimation of <i>Oecophylla smaragdina</i> colonies: a model species for the ecological impact of ants. <i>Insect Conservation and Diversity</i> , 2015, 8, 464-473.	1.4	8
38	Preliminary Results of Clover and Grass Coverage and Total Dry Matter Estimation in Clover-Grass Crops Using Image Analysis. <i>Journal of Imaging</i> , 2017, 3, 59.	1.7	8
39	Robust Species Distribution Mapping of Crop Mixtures Using Color Images and Convolutional Neural Networks. <i>Sensors</i> , 2021, 21, 175.	2.1	8
40	Comparing methods for measuring the digestibility of miscanthus in bioethanol or biogas processing. <i>GCB Bioenergy</i> , 2017, 9, 168-175.	2.5	7
41	Cultivar and row distance interactions in perennial ryegrass. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2009, 59, 335-341.	0.3	6
42	Assessment of grass lodging using texture and canopy height distribution features derived from UAV visual-band images. <i>Agricultural and Forest Meteorology</i> , 2021, 308-309, 108541.	1.9	6
43	Optimizing the number of consecutive seed harvests in red fescue (<i>Festuca rubra</i> L.) and perennial ryegrass (<i>Lolium perenne</i> L.) for yield, yield components and economic return. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2013, 63, 1-10.	0.3	5
44	OPTIMUM DISTRIBUTION BETWEEN AUTUMN-APPLIED AND SPRING-APPLIED NITROGEN IN SEED PRODUCTION OF TALL FESCUE. <i>Journal of Plant Nutrition</i> , 2012, 35, 1394-1410.	0.9	4
45	Expression of starch-binding factor CBM20 in barley plastids controls the number of starch granules and the level of CO ₂ fixation. <i>Journal of Experimental Botany</i> , 2020, 71, 234-246.	2.4	3
46	Field scale agronomic and environmental consequences of overlapping N fertilizer application by disc spreaders. <i>Field Crops Research</i> , 2020, 255, 107901.	2.3	3
47	The use of linear mixed models for analysis of repeated measurements applied to water-soluble carbohydrates in perennial ryegrass for seed production. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2009, 59, 151-156.	0.3	2
48	Single Seed NIR as a Fast Method to Predict Germination Ability in Pak Choi. <i>NIR News</i> , 2012, 23, 6-7.	1.6	2
49	Predicting seed yield in perennial ryegrass using repeated canopy reflectance measurements and PLSR. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2009, 59, 414-423.	0.3	1
50	The Use of Remote Sensing to Determine Nitrogen Status in Perennial Ryegrass (<i>Lolium perenne</i> L.) for Seed Production. <i>Nitrogen</i> , 2021, 2, 229-243.	0.6	1
51	Agricultural Applications of NIR Reflectance and Transmittance. <i>NIR News</i> , 2009, 20, 4-4.	1.6	0
52	Potential Impact of Learning Management Zones for Site-Specific N Fertilisation: A Case Study for Wheat Crops. <i>Nitrogen</i> , 2022, 3, 387-403.	0.6	0