

David W Lamb

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

2,203
citations

236612

25
h-index

233125

45
g-index

72
all docs

72
docs citations

72
times ranked

2454
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of yellow rust in wheat using in-situ spectral reflectance measurements and airborne hyperspectral imaging. <i>Precision Agriculture</i> , 2007, 8, 187-197.	3.1	292
2	Evaluating ten spectral vegetation indices for identifying rust infection in individual wheat leaves. <i>Precision Agriculture</i> , 2009, 10, 459-470.	3.1	167
3	Within-season temporal variation in correlations between vineyard canopy and winegrape composition and yield. <i>Precision Agriculture</i> , 2011, 12, 103-117.	3.1	111
4	Categorising sheep activity using a tri-axial accelerometer. <i>Computers and Electronics in Agriculture</i> , 2018, 145, 289-297.	3.7	108
5	Characterising and mapping vineyard canopy using high-spatial-resolution aerial multispectral images. <i>Computers and Geosciences</i> , 2003, 29, 813-822.	2.0	102
6	A Combination of Plant NDVI and LiDAR Measurements Improve the Estimation of Pasture Biomass in Tall Fescue (<i>Festuca arundinacea</i> var. Fletcher). <i>Remote Sensing</i> , 2016, 8, 109.	1.8	83
7	Improving pathways to adoption: Putting the right P's in precision agriculture. <i>Computers and Electronics in Agriculture</i> , 2008, 61, 4-9.	3.7	70
8	Monitoring distances travelled by horses using GPS tracking collars. <i>Australian Veterinary Journal</i> , 2010, 88, 176-181.	0.5	64
9	Farming the Web of Things. <i>IEEE Intelligent Systems</i> , 2013, 28, 12-19.	4.0	59
10	The use of qualitative airborne multispectral imaging for managing agricultural crops - a case study in south-eastern Australia. <i>Australian Journal of Experimental Agriculture</i> , 2000, 40, 725.	1.0	57
11	Low-resolution remotely sensed images of winegrape vineyards map spatial variability in planimetric canopy area instead of leaf area index. <i>Australian Journal of Grape and Wine Research</i> , 2008, 14, 9-17.	1.0	56
12	Predicting Lameness in Sheep Activity Using Tri-Axial Acceleration Signals. <i>Animals</i> , 2018, 8, 12.	1.0	56
13	Evaluating an active optical sensor for quantifying and mapping green herbage mass and growth in a perennial grass pasture. <i>Crop and Pasture Science</i> , 2010, 61, 389.	0.7	55
14	Radiometry of Proximal Active Optical Sensors (AOS) for Agricultural Sensing. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2012, 5, 1793-1802.	2.3	55
15	Quantifying the Severity of Phytophthora Root Rot Disease in Avocado Trees Using Image Analysis. <i>Remote Sensing</i> , 2018, 10, 226.	1.8	53
16	Effect of stripe rust on the yield response of wheat to nitrogen. <i>Crop Journal</i> , 2014, 2, 201-206.	2.3	47
17	Global navigation satellite system livestock tracking: system development and data interpretation. <i>Animal Production Science</i> , 2010, 50, 616.	0.6	44
18	Estimation of vertical distribution of chlorophyll concentration by bi-directional canopy reflectance spectra in winter wheat. <i>Precision Agriculture</i> , 2011, 12, 165-178.	3.1	43

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19	Sequential application of hyperspectral indices for delineation of stripe rust infection and nitrogen deficiency in wheat. <i>Precision Agriculture</i> , 2015, 16, 477-491.	3.1	42
20	An allometric model for estimating DBH of isolated and clustered Eucalyptus trees from measurements of crown projection area. <i>Forest Ecology and Management</i> , 2014, 326, 125-132.	1.4	33
21	Comparison of Canopy Volume Measurements of Scattered Eucalypt Farm Trees Derived from High Spatial Resolution Imagery and LiDAR. <i>Remote Sensing</i> , 2016, 8, 388.	1.8	33
22	The impact of solar illumination angle when using active optical sensing of NDVI to infer fAPAR in a pasture canopy. <i>Agricultural and Forest Meteorology</i> , 2015, 202, 39-43.	1.9	31
23	GPS observation of shelter utilisation by Merino ewes. <i>Animal Production Science</i> , 2011, 51, 724.	0.6	28
24	Vineyard trellising with steel posts distorts data from EM soil surveys. <i>Australian Journal of Grape and Wine Research</i> , 2005, 11, 24-32.	1.0	27
25	Real-time object detection in agricultural/remote environments using the multiple-expert colour feature extreme learning machine (MEC-ELM). <i>Computers in Industry</i> , 2018, 98, 183-191.	5.7	27
26	A relationship between faecal egg counts and the distance travelled by sheep. <i>Small Ruminant Research</i> , 2013, 111, 171-174.	0.6	26
27	Ultra low-level airborne (ULLA) sensing of crop canopy reflectance: A case study using a CropCircleâ„¢ sensor. <i>Computers and Electronics in Agriculture</i> , 2009, 69, 86-91.	3.7	24
28	EM38 for volumetric soil water content estimation in the root-zone of deep vertosol soils. <i>Computers and Electronics in Agriculture</i> , 2010, 74, 100-109.	3.7	24
29	Spatial variability in pH and key soil nutrients: is this an opportunity to increase fertiliser and lime-use efficiency in grazing systems?. <i>Crop and Pasture Science</i> , 2014, 65, 817.	0.7	23
30	A refined method for rapidly determining the relationship between canopy NDVI and the pasture evapotranspiration coefficient. <i>Computers and Electronics in Agriculture</i> , 2018, 147, 12-17.	3.7	21
31	A Preliminary Investigation of the Potential of Sentinel-1 Radar to Estimate Pasture Biomass in a Grazed, Native Pasture Landscape. <i>Remote Sensing</i> , 2019, 11, 872.	1.8	20
32	Frost Monitoring Cyber-Physical System: A Survey on Prediction and Active Protection Methods. <i>IEEE Internet of Things Journal</i> , 2020, 7, 6514-6527.	5.5	18
33	The patterns of grazed pasture associated with scattered trees across an Australian temperate landscape: an investigation of pasture quantity and quality. <i>Rangeland Journal</i> , 2011, 33, 121.	0.4	17
34	Laser-optical fiber Bragg grating anemometer for measuring gas flows: application to measuring the electric wind. <i>Optics Letters</i> , 2006, 31, 1035.	1.7	16
35	Methodology for measuring fAPAR in crops using a combination of active optical and linear irradiance sensors: a case study in Triticale (X Triticosecale Wittmack). <i>Precision Agriculture</i> , 2014, 15, 532-542.	3.1	16
36	Fast object detection in pastoral landscapes using a Colour Feature Extreme Learning Machine. <i>Computers and Electronics in Agriculture</i> , 2017, 139, 204-212.	3.7	16

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37	Discrimination of species composition types of a grazed pasture landscape using Sentinel-1 and Sentinel-2 data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2020, 84, 101978.	1.4	16
38	Extended-altitude, aerial mapping of crop NDVI using an active optical sensor: A case study using a RaptoRâ,ç sensor over wheat. <i>Computers and Electronics in Agriculture</i> , 2011, 77, 69-73.	3.7	15
39	An intrinsic exposed core optical fiber sensor as a quantitative surface crystallization monitoring sensor. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 964-969.	4.0	15
40	Winter Wheat Genotype Effect on Canopy Reflectance: Implications for Using NDVI for Inâ€Season Nitrogen Topdressing Recommendations. <i>Agronomy Journal</i> , 2015, 107, 2097-2106.	0.9	15
41	Use of proximal sensors to evaluate at the sub-paddock scale a pasture growth-rate model based on light-use efficiency. <i>Crop and Pasture Science</i> , 2014, 65, 400.	0.7	13
42	Detecting and Monitoring Industrial Scale Formation Using an Intrinsic Exposed-Core Optical Fiber Sensor. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 4682-4686.	1.8	12
43	Apparent electrical conductivity (ECa) as a surrogate for neutron probe counts to measure soil moisture content in heavy clay soils (Vertosols). <i>Soil Research</i> , 2014, 52, 373.	0.6	12
44	Energy transfer in positive streamers. <i>Journal Physics D: Applied Physics</i> , 1989, 22, 1497-1503.	1.3	11
45	Assessment of an Intrinsic Optical Fiber Sensor for InSitu Monitoring of Scale-Forming Salts. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 1066-1070.	1.8	10
46	A Non-Reference Temperature Histogram Method for Determining Tc from Ground-Based Thermal Imagery of Orchard Tree Canopies. <i>Remote Sensing</i> , 2019, 11, 714.	1.8	10
47	Fibre evanescent field absorption (FEFA): an optical fibre technique for measuring light absorption in turbid water samples. <i>Marine and Freshwater Research</i> , 2004, 55, 533.	0.7	9
48	Discriminating between C3, C4, and Mixed C3/C4 Pasture Grasses of a Grazed Landscape Using Multi-Temporal Sentinel-1a Data. <i>Remote Sensing</i> , 2019, 11, 253.	1.8	9
49	Ultrahigh Dimensional Variable Selection for Interpolation of Point Referenced Spatial Data: A Digital Soil Mapping Case Study. <i>PLoS ONE</i> , 2016, 11, e0162489.	1.1	9
50	Litterfall and associated nutrient pools extend beyond the canopy of scattered eucalypt trees in temperate pastures. <i>Plant and Soil</i> , 2011, 345, 339-352.	1.8	8
51	A novel protocol for assessment of aboveground biomass in rangeland environments. <i>Rangeland Journal</i> , 2015, 37, 157.	0.4	8
52	Monitoring the effects of longwall mine-induced subsidence on vineyards. <i>Environmental Earth Sciences</i> , 2011, 62, 973-984.	1.3	7
53	Effect of Aluminum Neutron Probe Access Tubes on the Apparent Electrical Conductivity Recorded by an Electromagnetic Soil Survey Sensor. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 333-336.	1.4	7
54	Airborne LiDAR and high resolution multispectral data integration in Eucalyptus tree species mapping in an Australian farmscape. <i>Geocarto International</i> , 2022, 37, 70-90.	1.7	7

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55	In-situ partitioning of evaporation and transpiration components using a portable evapotranspiration dome – A case study in Tall Fescue (<i>Festuca arundinacea</i>). <i>Agricultural Water Management</i> , 2019, 213, 352-357.	2.4	7
56	Combination active optical and passive thermal infrared sensor for low-level airborne crop sensing. <i>Precision Agriculture</i> , 2014, 15, 523-531.	3.1	6
57	Understanding the role of monolayers in retarding evaporation from water storage bodies. <i>Chemical Physics Letters</i> , 2015, 623, 37-41.	1.2	5
58	The Segmented Colour Feature Extreme Learning Machine: Applications in Agricultural Robotics. <i>Agronomy</i> , 2021, 11, 2290.	1.3	5
59	Guided-mode refraction model for optical fiber sensing of surface crystal growth. <i>Optics Letters</i> , 2010, 35, 3625.	1.7	4
60	The Dynamic Aerial Survey Algorithm Architecture and Its Potential Use in Airborne Fertilizer Applications. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2012, 5, 1772-1779.	2.3	4
61	A Comparative Study of Land Cover Classification Techniques for “Farmscapes” Using Very High Resolution Remotely Sensed Data. <i>Photogrammetric Engineering and Remote Sensing</i> , 2014, 80, 461-470.	0.3	4
62	The use of shadows in high spatial resolution, remotely sensed, imagery to estimate the height of individual Eucalyptus trees on undulating land. <i>Rangeland Journal</i> , 2015, 37, 467.	0.4	3
63	Investigating the potential of Sentinel-1 to detect varying spatial heterogeneity in pasture cover in grasslands. <i>International Journal of Remote Sensing</i> , 2021, 42, 274-285.	1.3	3
64	Ground truthing protocols for biomass estimation in rangeland environments. , 2013, , .		2
65	The Effect and Mitigation of Vine Trellising on EM38 Soil Conductivity Measurements. , 2007, , .		1
66	Integrating MODIS satellite imagery and proximal vegetation sensors to enable precision livestock management. , 2012, , .		1
67	A comparison of two ranging approaches in an active, optical plant canopy sensor. , 2014, , .		1
68	Progress in the application of exposed core, optical fibre sensors for detecting and monitoring surface crystallization processes. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
69	PMMA optical fibers as intrinsic sensors of surface crystal growth. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
70	Monitoring surface crystal growth using an intrinsic exposed-core optical fiber sensor (IECOFS). <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
71	Tree cover extraction from 50 cm worldview2 imagery: A comparison of image processing techniques. , 2013, , .		0
72	Evaluating a novel application of optical fibre evanescent field absorbance: rapid measurement of red colour in winegrape homogenates. , 2013, , .		0