Megan Lewis

List of Publications by Year
in descending order

63 papers	1,933 citations	279798 23 h-index	265206 42 g-index
65 all docs	65 docs citations	65 times ranked	2706 citing authors

#	Article	IF	Citations
1	Buffel grass (Cenchrus ciliaris) as an invader and threat to biodiversity in arid environments: A review. Journal of Arid Environments, 2012, 78, 1-12.	2.4	194
2	Visible near-infrared reflectance spectroscopy as a predictive indicator of soil properties. Ecological Indicators, 2011, 11, 123-131.	6.3	167
3	Site-based and remote sensing methods for monitoring indicators of vegetation condition: An Australian review. Ecological Indicators, 2016, 60, 1273-1283.	6.3	163
4	A review of methods for analysing spatial and temporal patterns in coastal water quality. Ecological Indicators, 2011, 11, 103-114.	6.3	145
5	Hyperspectral Classification of Plants: A Review of Waveband Selection Generalisability. Remote Sensing, 2020, 12, 113.	4.0	109
6	Comparison of methods for estimation of absolute vegetation and soil fractional cover using MODIS normalized BRDF-adjusted reflectance data. Remote Sensing of Environment, 2013, 130, 266-279.	11.0	63
7	An introduction to patterns of fire in arid and semi-arid Australia, 1998 - 2004. Rangeland Journal, 2008, 30, 95.	0.9	63
8	Monitoring temporal dynamics of Great Artesian Basin wetland vegetation, Australia, using MODIS NDVI. Ecological Indicators, 2013, 34, 41-52.	6.3	58
9	The Development of Hyperspectral Distribution Maps to Predict the Content and Distribution of Nitrogen and Water in Wheat (Triticum aestivum). Frontiers in Plant Science, 2019, 10, 1380.	3.6	56
10	Discrimination of arid vegetation with airborne multispectral scanner hyperspectral imagery. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 1471-1479.	6.3	54
11	Population status of eucalypt trees on the River Murray floodplain, South Australia. River Research and Applications, 2005, 21, 271-282.	1.7	51
12	A new approach to monitoring spatial distribution and dynamics of wetlands and associated flows of Australian Great Artesian Basin springs using QuickBird satellite imagery. Journal of Hydrology, 2011, 408, 140-152.	5.4	49
13	Spectral characterization of Australian arid zone plants. Canadian Journal of Remote Sensing, 2002, 28, 219-230.	2.4	47
14	Modelling vegetation health from the interaction of saline groundwater and flooding on the Chowilla floodplain, South Australia. Australian Journal of Botany, 2006, 54, 207.	0.6	42
15	A generalizable NDVI-based wetland delineation indicator for remote monitoring of groundwater flows in the Australian Great Artesian Basin. Ecological Indicators, 2016, 60, 1309-1320.	6.3	41
16	CropPhenology: An R package for extracting crop phenology from time series remotely sensed vegetation index imagery. Ecological Informatics, 2018, 46, 45-56.	5.2	40
17	Evaluation of vegetation indices for assessing vegetation cover in southern arid lands in South Australia. Rangeland Journal, 2007, 29, 39.	0.9	37
18	Self-organization and complex dynamics of regenerating vegetation in an arid ecosystem: 82 years of recovery after grazing. Journal of Arid Environments, 2013, 88, 156-164.	2.4	36

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19	Numeric classification as an aid to spectral mapping of vegetation communities. , 1998, 136, 133-133.		33
20	SEVERITY OF SALINITY ACCURATELY DETECTED AND CLASSIFIED ON A PADDOCK SCALE WITH HIGH RESOLUTION MULTISPECTRAL SATELLITE IMAGERY. Land Degradation and Development, 2013, 24, 375-384.	3.9	33
21	Phenologic metrics derived from MODIS NDVI as indicators for Plant Available Water-holding Capacity. Ecological Indicators, 2016, 60, 1263-1272.	6.3	33
22	Forest Cover Changes in Lao Tropical Forests: Physical and Socio-Economic Factors are the Most Important Drivers. Land, 2017, 6, 23.	2.9	31
23	Spatial indicators of fire risk in the arid and semi-arid zone of Australia. Ecological Indicators, 2011, 11, 149-167.	6.3	30
24	An image-based diversity index for assessing land degradation in an arid environment in South Australia. Journal of Arid Environments, 2008, 72, 1282-1293.	2.4	25
25	Species composition related to spectral classification in an Australian spinifex hummock grassland. International Journal of Remote Sensing, 1994, 15, 3223-3239.	2.9	23
26	Testing the Temporal Ability of Landsat Imagery and Precision Agriculture Technology to Provide High Resolution Historical Estimates of Wheat Yield at the Farm Scale. Remote Sensing, 2013, 5, 1549-1567.	4.0	23
27	MODIS EVI and LST Temporal Response for Discrimination of Tropical Land Covers. Remote Sensing, 2015, 7, 6026-6040.	4.0	22
28	Evaluation of arid land systems using airborne video. Geocarto International, 1998, 13, 17-26.	3.5	21
29	Spatio-temporal analysis of the impact of climate, cropping intensity and means of irrigation: an assessment on rice yield determinants in Bangladesh. Agriculture and Food Security, 2016, 5, .	4.2	20
30	Landsat and GRACE observations of arid wetland dynamics in a dryland river system under multi-decadal hydroclimatic extremes. Journal of Hydrology, 2016, 543, 818-831.	5.4	20
31	Using satellite imagery to assess the distribution and abundance of southern hairy-nosed wombats (Lasiorhinus latifrons). Remote Sensing of Environment, 2018, 211, 196-203.	11.0	18
32	Stormwater quality improvement potential of an urbanised catchment using water sensitive retrofits into public parks. Urban Forestry and Urban Greening, 2014, 13, 315-324.	5.3	16
33	Additive partitioning of rarefaction curves: Removing the influence of sampling on species-diversity in vegetation surveys. Ecological Indicators, 2011, 11, 132-139.	6.3	14
34	Non-detection errors in a survey of persistent, highly-detectable vegetation species. Environmental Monitoring and Assessment, 2012, 184, 625-635.	2.7	13
35	Understanding the Spatially Variable Effects of Climate Change on Rice Yield for Three Ecotypes in Bangladesh, 1981â€“2010. Advances in Agriculture, 2017, 2017, 1-11.	0.9	13
36	Have droughts and increased water extraction from the Murray River (Australia) reduced coastal ocean productivity?. Marine and Freshwater Research, 2018, 69, 343.	1.3	12

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37	A method to map riparian exotic vegetation (Salix spp.) area to inform water resource management. Hydrological Processes, 2014, 28, 3809-3823.	2.6	11
38	Dingo interactions with exotic mesopredators: spatiotemporal dynamics in an Australian arid-zone study. Wildlife Research, 2015, 42, 529.	1.4	11
39	Environmental zonation across the Australian arid region based on long-term vegetation dynamics. Journal of Arid Environments, 2011, 75, 576-585.	2.4	10
40	Detecting new Buffel grass infestations in Australian arid lands: evaluation of methods using high-resolution multispectral imagery and aerial photography. Environmental Monitoring and Assessment, 2014, 186, 1689-1703.	2.7	10
41	A remote sensing spatio-temporal framework for interpreting sparse indicators in highly variable arid landscapes. Ecological Indicators, 2016, 60, 1284-1297.	6.3	10
42	Objective Regolith-Landform Mapping in a Regolith Dominated Terrain to Inform Mineral Exploration. Geosciences (Switzerland), 2018, 8, 318.	2.2	8
43	Rapid identification of shallow inundation for mosquito disease mitigation using drone-derived multispectral imagery. Geospatial Health, 2020, 15, .	0.8	8
44	Digital Terrain Analysis Reveals New Insights into the Topographic Context of Australian Aboriginal Stone Arrangements. Archaeological Prospection, 2017, 24, 169-179.	2.2	7
45	Distinguishing Photosynthetic and Non-Photosynthetic Vegetation: How Do Traditional Observations and Spectral Classification Compare?. Remote Sensing, 2019, 11, 2589.	4.0	6
46	Cross-fence comparisons: Theory for spatially comprehensive, controlled variable assessment of treatment effects in managed landscapes. Ecological Informatics, 2011, 6, 170-176.	5.2	5
47	Rangeland Condition Monitoring: A New Approach Using Cross-Fence Comparisons of Remotely Sensed Vegetation. PLoS ONE, 2015, 10, e0142742.	2.5	5
48	Understanding Phytoplankton Variability Throughout Spencer Gulf, South Australia, via Satellite Derived Chlorophyll-A. , 2008, , .		4
49	Comparison of Hyperspectral Versus Traditional Field Measurements of Fractional Ground Cover in the Australian Arid Zone. Remote Sensing, 2019, 11, 2825.	4.0	4
50	Generative Adversarial Network Synthesis of Hyperspectral Vegetation Data. Remote Sensing, 2021, 13, 2243.	4.0	4
51	Airborne hyperspectral characterisation of hydrothermal alteration in a regolith-dominated terrain, southern Gawler Ranges, South Australia. Australian Journal of Earth Sciences, 2021, 68, 590-608.	1.0	3
52	EchidnaCSI â€“ Improving monitoring of a cryptic species at continental scale using Citizen Science. Global Ecology and Conservation, 2021, 28, e01626.	2.1	3
53	Monitoring expansion of plantations in Lao tropical forests using Landsat time series. Proceedings of SPIE, 2014, , .	0.8	2
54	Koala Counter: Recording Citizen Scientistsâ€™ search paths to Improve Data Quality. Global Ecology and Conservation, 2020, 24, e01376.	2.1	2

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55	Mapping the longâ€term influence of river discharge on coastal ocean chlorophyllâ€a. Remote Sensing in Ecology and Conservation, 2022, 8, 629-643.	4.3	2
56	A comparison of NOAAâ€"AVHRR fire data with three Landsat data sets in arid and semi-arid Australia. International Journal of Remote Sensing, 2012, 33, 2657-2682.	2.9	1
57	Applying the Global Disturbance Index for Detecting Vegetation Changes in Lao Tropical Forests. Advances in Remote Sensing, 2015, 04, 73-82.	0.9	1
58	Mapping the surface expression and vegetation communities of Australian Great Artesian Basin springs using hyperspectral analyses. , 2013, , .		0
59	Monitoring temporal Vegetation changes in Lao tropical forests. IOP Conference Series: Earth and Environmental Science, 2014, 20, 012054.	0.3	0
60	Integrating Hyperspectral and Radiometric Remote Sensing, Spatial Topographic Analysis and Surface Geochemistry to Assist Mineral Exploration in Southern Australia. , 2019, , .		0
61	Integrating hyperspectral and radiometric remote sensing, spatial topographic analysis and surface geochemistry to assist mineral exploration. ASEG Extended Abstracts, 2019, 2019, 1-3.	0.1	0
62	Reflecting on siliceous rocks in central Australia: Using advanced remote sensing to map ancient â€œtoolâ€stoneâ€•resources. Geoarchaeology - an International Journal, 2020, 35, 400-415.	1.5	0
63	Using satellite imagery to evaluate precontact Aboriginal foraging habitats in the Australian Western Desert. Scientific Reports, 2021, 11, 10755.	3.3	0