

# Megan Lewis

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

1,933  
citations

279487

23  
h-index

264894

42  
g-index

65  
all docs

65  
docs citations

65  
times ranked

2706  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mapping the long-term influence of river discharge on coastal ocean chlorophyll. <i>Remote Sensing in Ecology and Conservation</i> , 2022, 8, 629-643.	2.2	2
2	Airborne hyperspectral characterisation of hydrothermal alteration in a regolith-dominated terrain, southern Gawler Ranges, South Australia. <i>Australian Journal of Earth Sciences</i> , 2021, 68, 590-608.	0.4	3
3	Using satellite imagery to evaluate precontact Aboriginal foraging habitats in the Australian Western Desert. <i>Scientific Reports</i> , 2021, 11, 10755.	1.6	0
4	Generative Adversarial Network Synthesis of Hyperspectral Vegetation Data. <i>Remote Sensing</i> , 2021, 13, 2243.	1.8	4
5	EchidnaCSI – Improving monitoring of a cryptic species at continental scale using Citizen Science. <i>Global Ecology and Conservation</i> , 2021, 28, e01626.	1.0	3
6	Reflecting on siliceous rocks in central Australia: Using advanced remote sensing to map ancient –toolstone– resources. <i>Geoarchaeology - an International Journal</i> , 2020, 35, 400-415.	0.7	0
7	Rapid identification of shallow inundation for mosquito disease mitigation using drone-derived multispectral imagery. <i>Geospatial Health</i> , 2020, 15, .	0.3	8
8	Koala Counter: Recording Citizen Scientists’ search paths to Improve Data Quality. <i>Global Ecology and Conservation</i> , 2020, 24, e01376.	1.0	2
9	Hyperspectral Classification of Plants: A Review of Waveband Selection Generalisability. <i>Remote Sensing</i> , 2020, 12, 113.	1.8	109
10	Integrating Hyperspectral and Radiometric Remote Sensing, Spatial Topographic Analysis and Surface Geochemistry to Assist Mineral Exploration in Southern Australia. , 2019, , .		0
11	Comparison of Hyperspectral Versus Traditional Field Measurements of Fractional Ground Cover in the Australian Arid Zone. <i>Remote Sensing</i> , 2019, 11, 2825.	1.8	4
12	The Development of Hyperspectral Distribution Maps to Predict the Content and Distribution of Nitrogen and Water in Wheat ( <i>Triticum aestivum</i> ). <i>Frontiers in Plant Science</i> , 2019, 10, 1380.	1.7	56
13	Integrating hyperspectral and radiometric remote sensing, spatial topographic analysis and surface geochemistry to assist mineral exploration. <i>ASEG Extended Abstracts</i> , 2019, 2019, 1-3.	0.1	0
14	Distinguishing Photosynthetic and Non-Photosynthetic Vegetation: How Do Traditional Observations and Spectral Classification Compare?. <i>Remote Sensing</i> , 2019, 11, 2589.	1.8	6
15	Have droughts and increased water extraction from the Murray River (Australia) reduced coastal ocean productivity?. <i>Marine and Freshwater Research</i> , 2018, 69, 343.	0.7	12
16	Objective Regolith-Landform Mapping in a Regolith Dominated Terrain to Inform Mineral Exploration. <i>Geosciences (Switzerland)</i> , 2018, 8, 318.	1.0	8
17	CropPhenology: An R package for extracting crop phenology from time series remotely sensed vegetation index imagery. <i>Ecological Informatics</i> , 2018, 46, 45-56.	2.3	40
18	Using satellite imagery to assess the distribution and abundance of southern hairy-nosed wombats ( <i>Lasiorchinus latifrons</i> ). <i>Remote Sensing of Environment</i> , 2018, 211, 196-203.	4.6	18

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19	Digital Terrain Analysis Reveals New Insights into the Topographic Context of Australian Aboriginal Stone Arrangements. <i>Archaeological Prospection</i> , 2017, 24, 169-179.	1.1	7
20	Forest Cover Changes in Lao Tropical Forests: Physical and Socio-Economic Factors are the Most Important Drivers. <i>Land</i> , 2017, 6, 23.	1.2	31
21	Understanding the Spatially Variable Effects of Climate Change on Rice Yield for Three Ecotypes in Bangladesh, 1981–2010. <i>Advances in Agriculture</i> , 2017, 2017, 1-11.	0.3	13
22	Phenologic metrics derived from MODIS NDVI as indicators for Plant Available Water-holding Capacity. <i>Ecological Indicators</i> , 2016, 60, 1263-1272.	2.6	33
23	Spatio-temporal analysis of the impact of climate, cropping intensity and means of irrigation: an assessment on rice yield determinants in Bangladesh. <i>Agriculture and Food Security</i> , 2016, 5, .	1.6	20
24	Landsat and GRACE observations of arid wetland dynamics in a dryland river system under multi-decadal hydroclimatic extremes. <i>Journal of Hydrology</i> , 2016, 543, 818-831.	2.3	20
25	Site-based and remote sensing methods for monitoring indicators of vegetation condition: An Australian review. <i>Ecological Indicators</i> , 2016, 60, 1273-1283.	2.6	163
26	A generalizable NDVI-based wetland delineation indicator for remote monitoring of groundwater flows in the Australian Great Artesian Basin. <i>Ecological Indicators</i> , 2016, 60, 1309-1320.	2.6	41
27	A remote sensing spatio-temporal framework for interpreting sparse indicators in highly variable arid landscapes. <i>Ecological Indicators</i> , 2016, 60, 1284-1297.	2.6	10
28	Dingo interactions with exotic mesopredators: spatiotemporal dynamics in an Australian arid-zone study. <i>Wildlife Research</i> , 2015, 42, 529.	0.7	11
29	MODIS EVI and LST Temporal Response for Discrimination of Tropical Land Covers. <i>Remote Sensing</i> , 2015, 7, 6026-6040.	1.8	22
30	Rangeland Condition Monitoring: A New Approach Using Cross-Fence Comparisons of Remotely Sensed Vegetation. <i>PLoS ONE</i> , 2015, 10, e0142742.	1.1	5
31	Applying the Global Disturbance Index for Detecting Vegetation Changes in Lao Tropical Forests. <i>Advances in Remote Sensing</i> , 2015, 04, 73-82.	0.2	1
32	Monitoring expansion of plantations in Lao tropical forests using Landsat time series. <i>Proceedings of SPIE</i> , 2014, , .	0.8	2
33	Detecting new Buffel grass infestations in Australian arid lands: evaluation of methods using high-resolution multispectral imagery and aerial photography. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 1689-1703.	1.3	10
34	A method to map riparian exotic vegetation ( <i>Salix</i> spp.) area to inform water resource management. <i>Hydrological Processes</i> , 2014, 28, 3809-3823.	1.1	11
35	Stormwater quality improvement potential of an urbanised catchment using water sensitive retrofits into public parks. <i>Urban Forestry and Urban Greening</i> , 2014, 13, 315-324.	2.3	16
36	Monitoring temporal Vegetation changes in Lao tropical forests. <i>IOP Conference Series: Earth and Environmental Science</i> , 2014, 20, 012054.	0.2	0

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37	SEVERITY OF SALINITY ACCURATELY DETECTED AND CLASSIFIED ON A PADDOCK SCALE WITH HIGH RESOLUTION MULTISPECTRAL SATELLITE IMAGERY. <i>Land Degradation and Development</i> , 2013, 24, 375-384.	1.8	33
38	Self-organization and complex dynamics of regenerating vegetation in an arid ecosystem: 82 years of recovery after grazing. <i>Journal of Arid Environments</i> , 2013, 88, 156-164.	1.2	36
39	Comparison of methods for estimation of absolute vegetation and soil fractional cover using MODIS normalized BRDF-adjusted reflectance data. <i>Remote Sensing of Environment</i> , 2013, 130, 266-279.	4.6	63
40	Mapping the surface expression and vegetation communities of Australian Great Artesian Basin springs using hyperspectral analyses. , 2013, , .		0
41	Monitoring temporal dynamics of Great Artesian Basin wetland vegetation, Australia, using MODIS NDVI. <i>Ecological Indicators</i> , 2013, 34, 41-52.	2.6	58
42	Testing the Temporal Ability of Landsat Imagery and Precision Agriculture Technology to Provide High Resolution Historical Estimates of Wheat Yield at the Farm Scale. <i>Remote Sensing</i> , 2013, 5, 1549-1567.	1.8	23
43	A comparison of NOAA's AVHRR fire data with three Landsat data sets in arid and semi-arid Australia. <i>International Journal of Remote Sensing</i> , 2012, 33, 2657-2682.	1.3	1
44	Buffel grass ( <i>Cenchrus ciliaris</i> ) as an invader and threat to biodiversity in arid environments: A review. <i>Journal of Arid Environments</i> , 2012, 78, 1-12.	1.2	194
45	Non-detection errors in a survey of persistent, highly-detectable vegetation species. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 625-635.	1.3	13
46	Cross-fence comparisons: Theory for spatially comprehensive, controlled variable assessment of treatment effects in managed landscapes. <i>Ecological Informatics</i> , 2011, 6, 170-176.	2.3	5
47	Visible near-infrared reflectance spectroscopy as a predictive indicator of soil properties. <i>Ecological Indicators</i> , 2011, 11, 123-131.	2.6	167
48	Spatial indicators of fire risk in the arid and semi-arid zone of Australia. <i>Ecological Indicators</i> , 2011, 11, 149-167.	2.6	30
49	A review of methods for analysing spatial and temporal patterns in coastal water quality. <i>Ecological Indicators</i> , 2011, 11, 103-114.	2.6	145
50	Additive partitioning of rarefaction curves: Removing the influence of sampling on species-diversity in vegetation surveys. <i>Ecological Indicators</i> , 2011, 11, 132-139.	2.6	14
51	Environmental zonation across the Australian arid region based on long-term vegetation dynamics. <i>Journal of Arid Environments</i> , 2011, 75, 576-585.	1.2	10
52	A new approach to monitoring spatial distribution and dynamics of wetlands and associated flows of Australian Great Artesian Basin springs using QuickBird satellite imagery. <i>Journal of Hydrology</i> , 2011, 408, 140-152.	2.3	49
53	An image-based diversity index for assessing land degradation in an arid environment in South Australia. <i>Journal of Arid Environments</i> , 2008, 72, 1282-1293.	1.2	25
54	Understanding Phytoplankton Variability Throughout Spencer Gulf, South Australia, via Satellite Derived Chlorophyll-A. , 2008, , .		4

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55	An introduction to patterns of fire in arid and semi-arid Australia, 1998 - 2004. Rangeland Journal, 2008, 30, 95.	0.4	63
56	Evaluation of vegetation indices for assessing vegetation cover in southern arid lands in South Australia. Rangeland Journal, 2007, 29, 39.	0.4	37
57	Modelling vegetation health from the interaction of saline groundwater and flooding on the Chowilla floodplain, South Australia. Australian Journal of Botany, 2006, 54, 207.	0.3	42
58	Population status of eucalypt trees on the River Murray floodplain, South Australia. River Research and Applications, 2005, 21, 271-282.	0.7	51
59	Spectral characterization of Australian arid zone plants. Canadian Journal of Remote Sensing, 2002, 28, 219-230.	1.1	47
60	Discrimination of arid vegetation with airborne multispectral scanner hyperspectral imagery. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 1471-1479.	2.7	54
61	Numeric classification as an aid to spectral mapping of vegetation communities. , 1998, 136, 133-133.		33
62	Evaluation of arid land systems using airborne video. Geocarto International, 1998, 13, 17-26.	1.7	21
63	Species composition related to spectral classification in an Australian spinifex hummock grassland. International Journal of Remote Sensing, 1994, 15, 3223-3239.	1.3	23