

Megan Lewis

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7757086/publications.pdf>

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	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
2	Visible near-infrared reflectance spectroscopy as a predictive indicator of soil properties. <i>Ecological Indicators</i> , 2011, 11, 123-131.	2.6	167
3	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
4	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
5	Hyperspectral Classification of Plants: A Review of Waveband Selection Generalisability. <i>Remote Sensing</i> , 2020, 12, 113.	1.8	109
6	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
7	An introduction to patterns of fire in arid and semi-arid Australia, 1998 - 2004. <i>Rangeland Journal</i> , 2008, 30, 95.	0.4	63
8	Monitoring temporal dynamics of Great Artesian Basin wetland vegetation, Australia, using MODIS NDVI. <i>Ecological Indicators</i> , 2013, 34, 41-52.	2.6	58
9	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
10	Discrimination of arid vegetation with airborne multispectral scanner hyperspectral imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2001, 39, 1471-1479.	2.7	54
11	Population status of eucalypt trees on the River Murray floodplain, South Australia. <i>River Research and Applications</i> , 2005, 21, 271-282.	0.7	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. <i>Journal of Hydrology</i> , 2011, 408, 140-152.	2.3	49
13	Spectral characterization of Australian arid zone plants. <i>Canadian Journal of Remote Sensing</i> , 2002, 28, 219-230.	1.1	47
14	Modelling vegetation health from the interaction of saline groundwater and flooding on the Chowilla floodplain, South Australia. <i>Australian Journal of Botany</i> , 2006, 54, 207.	0.3	42
15	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
16	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
17	Evaluation of vegetation indices for assessing vegetation cover in southern arid lands in South Australia. <i>Rangeland Journal</i> , 2007, 29, 39.	0.4	37
18	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

#	ARTICLE	IF	CITATIONS
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.	1.8	33
21	Phenologic metrics derived from MODIS NDVI as indicators for Plant Available Water-holding Capacity. Ecological Indicators, 2016, 60, 1263-1272.	2.6	33
22	Forest Cover Changes in Lao Tropical Forests: Physical and Socio-Economic Factors are the Most Important Drivers. Land, 2017, 6, 23.	1.2	31
23	Spatial indicators of fire risk in the arid and semi-arid zone of Australia. Ecological Indicators, 2011, 11, 149-167.	2.6	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.	1.2	25
25	Species composition related to spectral classification in an Australian spinifex hummock grassland. International Journal of Remote Sensing, 1994, 15, 3223-3239.	1.3	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.	1.8	23
27	MODIS EVI and LST Temporal Response for Discrimination of Tropical Land Covers. Remote Sensing, 2015, 7, 6026-6040.	1.8	22
28	Evaluation of arid land systems using airborne video. Geocarto International, 1998, 13, 17-26.	1.7	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, .	1.6	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.	2.3	20
31	Using satellite imagery to assess the distribution and abundance of southern hairy-nosed wombats (<i>Lasiorchinus latifrons</i>). Remote Sensing of Environment, 2018, 211, 196-203.	4.6	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.	2.3	16
33	Additive partitioning of rarefaction curves: Removing the influence of sampling on species-diversity in vegetation surveys. Ecological Indicators, 2011, 11, 132-139.	2.6	14
34	Non-detection errors in a survey of persistent, highly-detectable vegetation species. Environmental Monitoring and Assessment, 2012, 184, 625-635.	1.3	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.	0.3	13
36	Have droughts and increased water extraction from the Murray River (Australia) reduced coastal ocean productivity?. Marine and Freshwater Research, 2018, 69, 343.	0.7	12

#	ARTICLE	IF	CITATIONS
37	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
38	Dingo interactions with exotic mesopredators: spatiotemporal dynamics in an Australian arid-zone study. <i>Wildlife Research</i> , 2015, 42, 529.	0.7	11
39	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
40	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
41	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
42	Objective Regolith-Landform Mapping in a Regolith Dominated Terrain to Inform Mineral Exploration. <i>Geosciences (Switzerland)</i> , 2018, 8, 318.	1.0	8
43	Rapid identification of shallow inundation for mosquito disease mitigation using drone-derived multispectral imagery. <i>Geospatial Health</i> , 2020, 15, .	0.3	8
44	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
45	Distinguishing Photosynthetic and Non-Photosynthetic Vegetation: How Do Traditional Observations and Spectral Classification Compare?. <i>Remote Sensing</i> , 2019, 11, 2589.	1.8	6
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	Rangeland Condition Monitoring: A New Approach Using Cross-Fence Comparisons of Remotely Sensed Vegetation. <i>PLoS ONE</i> , 2015, 10, e0142742.	1.1	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. <i>Remote Sensing</i> , 2019, 11, 2825.	1.8	4
50	Generative Adversarial Network Synthesis of Hyperspectral Vegetation Data. <i>Remote Sensing</i> , 2021, 13, 2243.	1.8	4
51	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
52	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
53	Monitoring expansion of plantations in Lao tropical forests using Landsat time series. <i>Proceedings of SPIE</i> , 2014, , .	0.8	2
54	Koala Counter: Recording Citizen Scientists' search paths to Improve Data Quality. <i>Global Ecology and Conservation</i> , 2020, 24, e01376.	1.0	2

#	ARTICLE	IF	CITATIONS
55	Mapping the long-term influence of river discharge on coastal ocean chlorophyll <i>a</i> . Remote Sensing in Ecology and Conservation, 2022, 8, 629-643.	2.2	2
56	A comparison of NOAA's AVHRR fire data with three Landsat data sets in arid and semi-arid Australia. International Journal of Remote Sensing, 2012, 33, 2657-2682.	1.3	1
57	Applying the Global Disturbance Index for Detecting Vegetation Changes in Lao Tropical Forests. Advances in Remote Sensing, 2015, 04, 73-82.	0.2	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.	0.2	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 toolstone resources. Geoarchaeology - an International Journal, 2020, 35, 400-415.	0.7	0
63	Using satellite imagery to evaluate precontact Aboriginal foraging habitats in the Australian Western Desert. Scientific Reports, 2021, 11, 10755.	1.6	0