

Michael J Hill

List of Publications by Year in descending order

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89
papers

3,020
citations

201385

27
h-index

174990

52
g-index

92
all docs

92
docs citations

92
times ranked

3541
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimating fractional cover of photosynthetic vegetation, non-photosynthetic vegetation and bare soil in the Australian tropical savanna region upscaling the EO-1 Hyperion and MODIS sensors. <i>Remote Sensing of Environment</i> , 2009, 113, 928-945.	4.6	309
2	Precision agriculture on grassland: Applications, perspectives and constraints. <i>European Journal of Agronomy</i> , 2008, 29, 59-71.	1.9	160
3	Estimating spatio-temporal patterns of agricultural productivity in fragmented landscapes using AVHRR NDVI time series. <i>Remote Sensing of Environment</i> , 2003, 84, 367-384.	4.6	139
4	Using data from Landsat, MODIS, VIIRS and PhenoCams to monitor the phenology of California oak/grass savanna and open grassland across spatial scales. <i>Agricultural and Forest Meteorology</i> , 2017, 237-238, 311-325.	1.9	131
5	An Anisotropic Flat Index (AFX) to derive BRDF archetypes from MODIS. <i>Remote Sensing of Environment</i> , 2014, 141, 168-187.	4.6	117
6	Vegetation index suites as indicators of vegetation state in grassland and savanna: An analysis with simulated SENTINEL 2 data for a North American transect. <i>Remote Sensing of Environment</i> , 2013, 137, 94-111.	4.6	112
7	Multi-criteria decision analysis in spatial decision support: the ASSESS analytic hierarchy process and the role of quantitative methods and spatially explicit analysis. <i>Environmental Modelling and Software</i> , 2005, 20, 955-976.	1.9	105
8	Assessment of the MODIS LAI product for Australian ecosystems. <i>Remote Sensing of Environment</i> , 2006, 101, 495-518.	4.6	98
9	Estimation of pasture growth rate in the south west of Western Australia from AVHRR NDVI and climate data. <i>Remote Sensing of Environment</i> , 2004, 93, 528-545.	4.6	86
10	A method for improving hotspot directional signatures in BRDF models used for MODIS. <i>Remote Sensing of Environment</i> , 2016, 186, 135-151.	4.6	85
11	An algorithm for the retrieval of the clumping index (CI) from the MODIS BRDF product using an adjusted version of the kernel-driven BRDF model. <i>Remote Sensing of Environment</i> , 2018, 209, 594-611.	4.6	82
12	Understanding the variability in ground-based methods for retrieving canopy openness, gap fraction, and leaf area index in diverse forest systems. <i>Agricultural and Forest Meteorology</i> , 2015, 205, 83-95.	1.9	68
13	Integration of optical and radar classifications for mapping pasture type in Western Australia. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2005, 43, 1665-1681.	2.7	63
14	Quantitative mapping of pasture biomass using satellite imagery. <i>International Journal of Remote Sensing</i> , 2011, 32, 2699-2724.	1.3	61
15	Frost in a future climate: modelling interactive effects of warmer temperatures and rising atmospheric [CO ₂] on the incidence and severity of frost damage in a temperate evergreen (<i>Eucalyptus pauciflora</i>). <i>Global Change Biology</i> , 2008, 14, 294-308.	4.2	56
16	Multi-sensor model-data fusion for estimation of hydrologic and energy flux parameters. <i>Remote Sensing of Environment</i> , 2008, 112, 1306-1319.	4.6	48
17	Germination and seedling growth of prairie grass, tall fescue and Italian ryegrass at different temperatures. <i>Australian Journal of Agricultural Research</i> , 1985, 36, 13.	1.5	46
18	Assessment of Regional Vegetation Response to Climate Anomalies: A Case Study for Australia Using GIMMS NDVI Time Series between 1982 and 2006. <i>Remote Sensing</i> , 2017, 9, 34.	1.8	45

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19	Characterizing vegetation cover in global savannas with an annual foliage clumping index derived from the MODIS BRDF product. <i>Remote Sensing of Environment</i> , 2011, 115, 2008-2024.	4.6	44
20	Quantifying the impact of woody material on leaf area index estimation from hemispherical photography using 3D canopy simulations. <i>Agricultural and Forest Meteorology</i> , 2016, 226-227, 1-12.	1.9	42
21	Wind erosion and soil carbon dynamics in south-western Australia. <i>Aeolian Research</i> , 2010, 1, 129-141.	1.1	40
22	Relating Radar Backscatter to Biophysical Properties of Temperate Perennial Grassland. <i>Remote Sensing of Environment</i> , 1999, 67, 15-31.	4.6	39
23	Pasture Land Cover in Eastern Australia from NOAA-AVHRR NDVI and Classified Landsat TM. <i>Remote Sensing of Environment</i> , 1999, 67, 32-50.	4.6	37
24	Relationship of MISR RPV parameters and MODIS BRDF shape indicators to surface vegetation patterns in an Australian tropical savanna. <i>Canadian Journal of Remote Sensing</i> , 2008, 34, S247-S267.	1.1	37
25	An improved theoretical model of canopy gap probability for Leaf Area Index estimation in woody ecosystems. <i>Forest Ecology and Management</i> , 2015, 358, 303-320.	1.4	37
26	Use of pulverised fuel ash from Victorian brown coal as a source of nutrients for a pasture species. <i>Australian Journal of Experimental Agriculture</i> , 1980, 20, 377.	1.0	36
27	The MODIS Global Vegetation Fractional Cover Product 2001â€“2018: Characteristics of Vegetation Fractional Cover in Grasslands and Savanna Woodlands. <i>Remote Sensing</i> , 2020, 12, 406.	1.8	30
28	MODIS spectral signals at a flux tower site: Relationships with high-resolution data, and CO2 flux and light use efficiency measurements. <i>Remote Sensing of Environment</i> , 2006, 103, 351-368.	4.6	29
29	Relationships between vegetation indices, fractional cover retrievals and the structure and composition of Brazilian Cerrado natural vegetation. <i>International Journal of Remote Sensing</i> , 2017, 38, 874-905.	1.3	29
30	Prospects for improving savanna biophysical models by using multiple-constraints model-data assimilation methods. <i>Australian Journal of Botany</i> , 2005, 53, 689.	0.3	28
31	Evaluation of land-use planning in greenbelts based on intrinsic characteristics and stakeholder values. <i>Landscape and Urban Planning</i> , 2012, 106, 23-34.	3.4	28
32	Use of 3-PG and 3-PCS to simulate forest growth dynamics of Australian tropical rainforests. <i>Forest Ecology and Management</i> , 2008, 254, 107-121.	1.4	27
33	The effect of temperature on germination and seedling growth of temperate perennial pasture legumes.. <i>Australian Journal of Agricultural Research</i> , 1991, 42, 175.	1.5	26
34	A scenario calculator for effects of grazing land management on carbon stocks in Australian rangelands. <i>Environmental Modelling and Software</i> , 2003, 18, 627-644.	1.9	26
35	Hyperspectral determination of feed quality constituents in temperate pastures: Effect of processing methods on predictive relationships from partial least squares regression. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2012, 19, 322-334.	1.4	26
36	Calibration and validation of the Australian fractional cover product for MODIS collection 6. <i>Remote Sensing Letters</i> , 2018, 9, 696-705.	0.6	26

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37	Vegetation cover dependence on accumulated antecedent precipitation in Australia: Relationships with photosynthetic and non-photosynthetic vegetation fractions. <i>Remote Sensing of Environment</i> , 2020, 240, 111670.	4.6	26
38	The effect of differences in intensity and frequency of defoliation on the growth of <i>Phalaris aquatica</i> L. and <i>Dactylis glomerata</i> L. <i>Australian Journal of Agricultural Research</i> , 1989, 40, 333.	1.5	24
39	Vegetation state change and consequent carbon dynamics in savanna woodlands of Australia in response to grazing, drought and fire: a scenario approach using 113 years of synthetic annual fire and grassland growth. <i>Australian Journal of Botany</i> , 2005, 53, 715.	0.3	24
40	Estimating Ground Cover in the Mixed Prairie Grassland of Southern Alberta Using Vegetation Indices Related to Physiological Function. <i>Canadian Journal of Remote Sensing</i> , 2015, 41, 51-66.	1.1	23
41	Changes in vegetation persistence across global savanna landscapes, 1982–2010. <i>Journal of Land Use Science</i> , 2016, 11, 7-32.	1.0	23
42	Combining satellite data with a simulation model to describe spatial variability in pasture growth at a farm scale. <i>Australian Journal of Experimental Agriculture</i> , 1999, 39, 285.	1.0	22
43	Satellite derived maps of pasture growth status: association of classification with botanical composition. <i>Australian Journal of Experimental Agriculture</i> , 1997, 37, 547.	1.0	21
44	The response to moisture and defoliation stresses, and traits for resilience of perennial grasses on the Northern Tablelands of New South Wales, Australia. <i>Australian Journal of Agricultural Research</i> , 2003, 54, 903.	1.5	18
45	Analysis of soil carbon outcomes from interaction between climate and grazing pressure in Australian rangelands using Range-ASSESS. <i>Environmental Modelling and Software</i> , 2006, 21, 779-801.	1.9	18
46	Dynamics of the relationship between NDVI and SWIR32 vegetation indices in southern Africa: implications for retrieval of fractional cover from MODIS data. <i>International Journal of Remote Sensing</i> , 2016, 37, 1476-1503.	1.3	18
47	Dynamics of vegetation indices in tropical and subtropical savannas defined by ecoregions and Moderate Resolution Imaging Spectroradiometer (MODIS) land cover. <i>Geocarto International</i> , 2012, 27, 153-191.	1.7	17
48	Retrieving understory dynamics in the Australian tropical savannah from time series decomposition and linear unmixing of MODIS data. <i>International Journal of Remote Sensing</i> , 2016, 37, 1445-1475.	1.3	17
49	Improving the tolerance of <i>Phalaris aquatica</i> L. to soil acidity by introgression of genes from <i>P. arundinacea</i> L. <i>Australian Journal of Agricultural Research</i> , 1990, 41, 657.	1.5	16
50	Seedling vigour and rhizome development in <i>Trifolium ambiguum</i> M. Bieb. (Caucasian clover) as affected by density of companion grasses, fertility, drought and defoliation in the first year. <i>Australian Journal of Agricultural Research</i> , 1995, 46, 807.	1.5	16
51	Validating canopy clumping retrieval methods using hemispherical photography in a simulated Eucalypt forest. <i>Agricultural and Forest Meteorology</i> , 2017, 247, 181-193.	1.9	16
52	Primary growth and regrowth responses of temperate grasses to different temperatures and cutting frequencies. <i>Australian Journal of Agricultural Research</i> , 1985, 36, 25.	1.5	15
53	Competition among seedlings of phalaris, subterranean clover and white clover in diallel replacement series mixtures. <i>Grass and Forage Science</i> , 1988, 43, 411-420.	1.2	15
54	Generating generic response signals for scenario calculation of management effects on carbon sequestration in agriculture: approximation of main effects using CENTURY. <i>Environmental Modelling and Software</i> , 2003, 18, 899-913.	1.9	15

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55	Plant reserves of perennial grasses subjected to drought and defoliation stresses on the Northern Tablelands of New South Wales, Australia. <i>Australian Journal of Agricultural Research</i> , 2003, 54, 819.	1.5	15
56	The Application of a Simple Spatial Multi-Criteria Analysis Shell to Natural Resource Management Decision Making. , 2008, , 73-95.		15
57	Airborne Synthetic Aperture Radar Analysis of Rangeland Revegetation of a Mixed Prairie. <i>Journal of Range Management</i> , 1994, 47, 385.	0.3	14
58	Multi-Criteria Assessment of Tensions in Resource Use at Continental Scale: A Proof of Concept with Australian Rangelands. <i>Environmental Management</i> , 2006, 37, 712-731.	1.2	14
59	Defining the white clover zone in eastern mainland Australia using a model and a geographic information system. <i>Ecological Modelling</i> , 1996, 86, 245-252.	1.2	13
60	A Habitat Suitability Index (HSI) for the Western Prairie Fringed Orchid (<i>Platanthera praeclara</i>) on the Sheyenne National Grassland, North Dakota, USA. <i>Ecological Indicators</i> , 2015, 57, 536-545.	2.6	13
61	Predicting Levels of Crude Protein, Digestibility, Lignin and Cellulose in Temperate Pastures Using Hyperspectral Image Data. <i>American Journal of Plant Sciences</i> , 2014, 05, 997-1019.	0.3	13
62	Global trends in vegetation fractional cover: Hotspots for change in bare soil and non-photosynthetic vegetation. <i>Agriculture, Ecosystems and Environment</i> , 2022, 324, 107719.	2.5	13
63	Growth response of <i>Festuca altaica</i> , <i>Festuca hallii</i> , and <i>Festuca campestris</i> to temperature. <i>Canadian Journal of Botany</i> , 1995, 73, 1074-1080.	1.2	12
64	The effect of differences in intensity and frequency of defoliation on the growth of <i>Sirolophus phalaris</i> in the field. <i>Australian Journal of Agricultural Research</i> , 1989, 40, 345.	1.5	12
65	Updating the Grassland Vegetation Inventory Using Change Vector Analysis and Functionally-Based Vegetation Indices. <i>Canadian Journal of Remote Sensing</i> , 2017, 43, 62-78.	1.1	11
66	Knowledge-based and inductive modelling of rough fescue (<i>Festuca altaica</i> , <i>F. campestris</i> and <i>F. hallii</i>) distribution in Alberta, Canada. <i>Ecological Modelling</i> , 1997, 103, 135-150.	1.2	10
67	Use of Vegetation Index "Fingerprints" From Hyperion Data to Characterize Vegetation States Within Land Cover/Land Use Types in an Australian Tropical Savanna. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2013, 6, 309-319.	2.3	10
68	Distribution of range and cultivated grassland plants in southern Alberta. <i>Plant Ecology</i> , 2000, 147, 59-76.	0.7	9
69	Use of 3-PG and 3-PCS to simulate forest growth dynamics of Australian tropical rainforests. <i>Forest Ecology and Management</i> , 2008, 254, 122-133.	1.4	9
70	Competition between Clare and Seaton Park, and Clare and Daliak subterranean clovers in replacement series mixtures in the field.. <i>Australian Journal of Agricultural Research</i> , 1991, 42, 161.	1.5	9
71	Possible future trade-offs between agriculture, energy production, and biodiversity conservation in North Dakota. <i>Regional Environmental Change</i> , 2013, 13, 311-328.	1.4	8
72	The bio-geophysical approach to remote sensing of vegetation in coupled human-environment systems " societal benefits and global context. <i>Journal of Spatial Science</i> , 2006, 51, 49-66.	1.0	7

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73	Applying the learning community model to graduate education: linking research and teaching between core courses. <i>Teaching in Higher Education</i> , 2012, 17, 722-734.	1.7	7
74	A comparison of the growth of seedlings of Mediterranean and temperate tall fescues, phalaris and annual ryegrass. <i>Australian Journal of Experimental Agriculture</i> , 1985, 25, 818.	1.0	6
75	Creating Land use Scenarios for City Greenbelts Using A Spatial Multi-Criteria Analysis Shell: Two Case Studies. <i>Physical Geography</i> , 2009, 30, 353-382.	0.6	6
76	Anthropogenic change in savannas and associated forest biomes. <i>Journal of Land Use Science</i> , 2016, 11, 1-6.	1.0	6
77	Modeling the potential natural vegetation of Minnesota, USA. <i>Ecological Informatics</i> , 2017, 41, 116-132.	2.3	6
78	Direct drilling tall fescue (<i>Festuca arundinacea</i> Schreb.) prairie grass (<i>Bromus catharticus</i> Vahl) and Italian ryegrass (<i>Lolium multiflorum</i> Lam.) into kikuyu and paspalum pastures. <i>Australian Journal of Experimental Agriculture</i> , 1985, 25, 806.	1.0	6
79	Grassland conservation in North Dakota and Saskatchewan: contrasts and similarities in protected areas and their management. <i>Journal of Land Use Science</i> , 2015, 10, 298-322.	1.0	5
80	Functional Phenology of a Texas Post Oak Savanna from a CHRIS PROBA Time Series. <i>Remote Sensing</i> , 2019, 11, 2388.	1.8	5
81	Growth of <i>Trifolium repens</i> L. and <i>Trifolium semipilosum</i> Fres. Var. <i>glabrescens</i> Gillet at different temperatures in controlled environments and in the field. <i>Grass and Forage Science</i> , 1989, 44, 125-137.	1.2	4
82	Competition between white clover (<i>Trifolium repens</i> L.) and subterranean clover (<i>Trifolium</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 To	1.2	3
83	Comparison of satellite-derived estimates of gross primary production for Australian old-growth tropical rainforest. <i>Canadian Journal of Remote Sensing</i> , 2007, 33, 278-288.	1.1	3
84	A Novel Method for Separating Woody and Herbaceous Time Series. <i>Photogrammetric Engineering and Remote Sensing</i> , 2019, 85, 509-520.	0.3	3
85	Remote Sensing of Savannas and Woodlands: Editorial. <i>Remote Sensing</i> , 2021, 13, 1490.	1.8	3
86	Development of a synthetic record of fire probability and proportion of late fires from simulated growth of ground stratum and annual rainfall in the Australian tropical savanna zone. <i>Environmental Modelling and Software</i> , 2006, 21, 1214-1229.	1.9	2
87	Using remote sensing to monitor the spring phenology of Acadia National Park across elevational gradients. <i>Ecosphere</i> , 2021, 12, .	1.0	2
88	Growth of seedlings of prairie grass and tall fescue in small swards of kikuyu at different temperatures. <i>Australian Journal of Agricultural Research</i> , 1985, 36, 213.	1.5	1
89	Improved ALMANAC simulations of upland switchgrass ecotypes in the northern United States. <i>Agronomy Journal</i> , 2022, 114, 508-523.	0.9	1