

# Michael J Hill

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86  
papers

2,376  
citations

26  
h-index

45  
g-index

92  
ext. papers

2,698  
ext. citations

5.5  
avg, IF

5.06  
L-index

#	Paper	IF	Citations
86	Global trends in vegetation fractional cover: Hotspots for change in bare soil and non-photosynthetic vegetation. <i>Agriculture, Ecosystems and Environment</i> , <b>2022</b> , 324, 107719	5.7	2
85	Vegetation cover dependence on accumulated antecedent precipitation in Australia: Relationships with photosynthetic and non-photosynthetic vegetation fractions. <i>Remote Sensing of Environment</i> , <b>2020</b> , 240, 111670	13.2	14
84	The MODIS Global Vegetation Fractional Cover Product 2001-2018: Characteristics of Vegetation Fractional Cover in Grasslands and Savanna Woodlands. <i>Remote Sensing</i> , <b>2020</b> , 12, 406	5	14
83	A Novel Method for Separating Woody and Herbaceous Time Series. <i>Photogrammetric Engineering and Remote Sensing</i> , <b>2019</b> , 85, 509-520	1.6	3
82	Functional Phenology of a Texas Post Oak Savanna from a CHRIS PROBA Time Series. <i>Remote Sensing</i> , <b>2019</b> , 11, 2388	5	2
81	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> , <b>2018</b> , 209, 594-611	13.2	44
80	Calibration and validation of the Australian fractional cover product for MODIS collection 6. <i>Remote Sensing Letters</i> , <b>2018</b> , 9, 696-705	2.3	16
79	Relationships between vegetation indices, fractional cover retrievals and the structure and composition of Brazilian Cerrado natural vegetation. <i>International Journal of Remote Sensing</i> , <b>2017</b> , 38, 874-905	3.1	20
78	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> , <b>2017</b> , 237-238, 311-325	5.8	96
77	Updating the Grassland Vegetation Inventory Using Change Vector Analysis and Functionally-Based Vegetation Indices. <i>Canadian Journal of Remote Sensing</i> , <b>2017</b> , 43, 62-78	1.8	8
76	Validating canopy clumping retrieval methods using hemispherical photography in a simulated Eucalypt forest. <i>Agricultural and Forest Meteorology</i> , <b>2017</b> , 247, 181-193	5.8	12
75	Modeling the potential natural vegetation of Minnesota, USA. <i>Ecological Informatics</i> , <b>2017</b> , 41, 116-132	4.2	2
74	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> , <b>2017</b> , 9, 34	5	32
73	Changes in vegetation persistence across global savanna landscapes, 1982-2010. <i>Journal of Land Use Science</i> , <b>2016</b> , 11, 7-32	2.7	15
72	A method for improving hotspot directional signatures in BRDF models used for MODIS. <i>Remote Sensing of Environment</i> , <b>2016</b> , 186, 135-151	13.2	61
71	Anthropogenic change in savannas and associated forest biomes. <i>Journal of Land Use Science</i> , <b>2016</b> , 11, 1-6	2.7	5
70	Quantifying the impact of woody material on leaf area index estimation from hemispherical photography using 3D canopy simulations. <i>Agricultural and Forest Meteorology</i> , <b>2016</b> , 226-227, 1-12	5.8	35

69	Retrieving understore dynamics in the Australian tropical savannah from time series decomposition and linear unmixing of MODIS data. <i>International Journal of Remote Sensing</i> , <b>2016</b> , 37, 1445-1475	3.1	12
68	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> , <b>2016</b> , 37, 1476-1503	3.1	12
67	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> , <b>2015</b> , 205, 83-95	5.8	57
66	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> , <b>2015</b> , 57, 536-545	5.8	9
65	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> , <b>2015</b> , 41, 51-66	1.8	18
64	An improved theoretical model of canopy gap probability for Leaf Area Index estimation in woody ecosystems. <i>Forest Ecology and Management</i> , <b>2015</b> , 358, 303-320	3.9	29
63	Grassland conservation in North Dakota and Saskatchewan: contrasts and similarities in protected areas and their management. <i>Journal of Land Use Science</i> , <b>2015</b> , 10, 298-322	2.7	2
62	An Anisotropic Flat Index (AFX) to derive BRDF archetypes from MODIS. <i>Remote Sensing of Environment</i> , <b>2014</b> , 141, 168-187	13.2	66
61	Predicting Levels of Crude Protein, Digestibility, Lignin and Cellulose in Temperate Pastures Using Hyperspectral Image Data. <i>American Journal of Plant Sciences</i> , <b>2014</b> , 05, 997-1019	0.5	11
60	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> , <b>2013</b> , 137, 94-111	13.2	94
59	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> , <b>2013</b> , 6, 309-319	4.7	8
58	Possible future trade-offs between agriculture, energy production, and biodiversity conservation in North Dakota. <i>Regional Environmental Change</i> , <b>2013</b> , 13, 311-328	4.3	7
57	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> , <b>2012</b> , 19, 322-334	7.3	22
56	Applying the learning community model to graduate education: linking research and teaching between core courses. <i>Teaching in Higher Education</i> , <b>2012</b> , 17, 722-734	1.4	3
55	Evaluation of land-use planning in greenbelts based on intrinsic characteristics and stakeholder values. <i>Landscape and Urban Planning</i> , <b>2012</b> , 106, 23-34	7.7	24
54	Dynamics of vegetation indices in tropical and subtropical savannas defined by ecoregions and Moderate Resolution Imaging Spectroradiometer (MODIS) land cover. <i>Geocarto International</i> , <b>2012</b> , 27, 153-191	2.7	16
53	Quantitative mapping of pasture biomass using satellite imagery. <i>International Journal of Remote Sensing</i> , <b>2011</b> , 32, 2699-2724	3.1	49
52	Characterizing vegetation cover in global savannas with an annual foliage clumping index derived from the MODIS BRDF product. <i>Remote Sensing of Environment</i> , <b>2011</b> , 115, 2008-2024	13.2	37

51	Wind erosion and soil carbon dynamics in south-western Australia. <i>Aeolian Research</i> , <b>2010</b> , 1, 129-141	3.9	36
50	Creating Land use Scenarios for City Greenbelts Using A Spatial Multi-Criteria Analysis Shell: Two Case Studies. <i>Physical Geography</i> , <b>2009</b> , 30, 353-382	1.8	5
49	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> , <b>2009</b> , 113, 928-945	13.2	254
48	Frost in a future climate: modelling interactive effects of warmer temperatures and rising atmospheric [CO <sub>2</sub> ] on the incidence and severity of frost damage in a temperate evergreen ( <i>Eucalyptus pauciflora</i> ). <i>Global Change Biology</i> , <b>2008</b> , 14, 294-308	11.4	47
47	Precision agriculture on grassland: Applications, perspectives and constraints. <i>European Journal of Agronomy</i> , <b>2008</b> , 29, 59-71	5	125
46	Use of 3-PG and 3-PGS to simulate forest growth dynamics of Australian tropical rainforests: I. Parameterisation and calibration for old-growth, regenerating and plantation forests. <i>Forest Ecology and Management</i> , <b>2008</b> , 254, 107-121	3.9	22
45	Use of 3-PG and 3-PGS to simulate forest growth dynamics of Australian tropical rainforests. <i>Forest Ecology and Management</i> , <b>2008</b> , 254, 122-133	3.9	7
44	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> , <b>2008</b> , 34, S247-S267	1.8	30
43	Multi-sensor model-data fusion for estimation of hydrologic and energy flux parameters. <i>Remote Sensing of Environment</i> , <b>2008</b> , 112, 1306-1319	13.2	42
42	The Application of a Simple Spatial Multi-Criteria Analysis Shell to Natural Resource Management Decision Making <b>2008</b> , 73-95		13
41	Comparison of satellite-derived estimates of gross primary production for Australian old-growth tropical rainforest. <i>Canadian Journal of Remote Sensing</i> , <b>2007</b> , 33, 278-288	1.8	3
40	Multi-criteria assessment of tensions in resource use at continental scale: a proof of concept with Australian rangelands. <i>Environmental Management</i> , <b>2006</b> , 37, 712-31	3.1	13
39	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> , <b>2006</b> , 51, 49-66	1.6	4
38	Analysis of soil carbon outcomes from interaction between climate and grazing pressure in Australian rangelands using Range-ASSESS. <i>Environmental Modelling and Software</i> , <b>2006</b> , 21, 779-801	5.2	16
37	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> , <b>2006</b> , 21, 1214-1229	5.2	2
36	MODIS spectral signals at a flux tower site: Relationships with high-resolution data, and CO <sub>2</sub> flux and light use efficiency measurements. <i>Remote Sensing of Environment</i> , <b>2006</b> , 103, 351-368	13.2	23
35	Assessment of the MODIS LAI product for Australian ecosystems. <i>Remote Sensing of Environment</i> , <b>2006</b> , 101, 495-518	13.2	82
34	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> , <b>2005</b> , 20, 955-976	5.2	89

33	Integration of optical and radar classifications for mapping pasture type in Western Australia. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2005</b> , 43, 1665-1681	8.1	55
32	Prospects for improving savanna biophysical models by using multiple-constraints model-data assimilation methods. <i>Australian Journal of Botany</i> , <b>2005</b> , 53, 689	1.2	26
31	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> , <b>2005</b> , 53, 715	1.2	23
30	Estimation of pasture growth rate in the south west of Western Australia from AVHRR NDVI and climate data. <i>Remote Sensing of Environment</i> , <b>2004</b> , 93, 528-545	13.2	71
29	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> , <b>2003</b> , 54, 903		17
28	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> , <b>2003</b> , 54, 819		14
27	A scenario calculator for effects of grazing land management on carbon stocks in Australian rangelands. <i>Environmental Modelling and Software</i> , <b>2003</b> , 18, 627-644	5.2	23
26	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> , <b>2003</b> , 18, 899-913	5.2	15
25	Estimating spatio-temporal patterns of agricultural productivity in fragmented landscapes using AVHRR NDVI time series. <i>Remote Sensing of Environment</i> , <b>2003</b> , 84, 367-384	13.2	122
24	Distribution of range and cultivated grassland plants in southern Alberta. <i>Plant Ecology</i> , <b>2000</b> , 147, 59-76.7		8
23	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> , <b>1999</b> , 39, 285		19
22	Pasture Land Cover in Eastern Australia from NOAA-AVHRR NDVI and Classified Landsat TM. <i>Remote Sensing of Environment</i> , <b>1999</b> , 67, 32-50	13.2	32
21	Relating Radar Backscatter to Biophysical Properties of Temperate Perennial Grassland. <i>Remote Sensing of Environment</i> , <b>1999</b> , 67, 15-31	13.2	32
20	Satellite derived maps of pasture growth status: association of classification with botanical composition. <i>Australian Journal of Experimental Agriculture</i> , <b>1997</b> , 37, 547		20
19	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> , <b>1997</b> , 103, 135-150	3	8
18	Defining the white clover zone in eastern mainland Australia using a model and a geographic information system. <i>Ecological Modelling</i> , <b>1996</b> , 86, 245-252	3	8
17	Growth response of <i>Festuca altaica</i> , <i>Festuca hallii</i> , and <i>Festuca campestris</i> to temperature. <i>Canadian Journal of Botany</i> , <b>1995</b> , 73, 1074-1080		11
16	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> , <b>1995</b> , 46, 807		14

15	Airborne Synthetic Aperture Radar Analysis of Rangeland Revegetation of a Mixed Prairie. <i>Journal of Range Management</i> , <b>1994</b> , 47, 385		13
14	The effect of temperature on germination and seedling growth of temperate perennial pasture legumes.. <i>Australian Journal of Agricultural Research</i> , <b>1991</b> , 42, 175		16
13	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> , <b>1991</b> , 42, 161		7
12	Competition between white clover ( <i>Trifolium repens</i> L.) and subterranean clover ( <i>Trifolium subterraneum</i> L.) in binary mixtures in the field. <i>Grass and Forage Science</i> , <b>1990</b> , 45, 373-382	2.3	2
11	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> , <b>1990</b> , 41, 657		15
10	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> , <b>1989</b> , 40, 333		20
9	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> , <b>1989</b> , 44, 125-137	2.3	3
8	The effect of differences in intensity and frequency of defoliation on the growth of <i>Sirolan phalaris</i> in the field. <i>Australian Journal of Agricultural Research</i> , <b>1989</b> , 40, 345		10
7	Competition among seedlings of phalaris, subterranean clover and white clover in diallel replacement series mixtures. <i>Grass and Forage Science</i> , <b>1988</b> , 43, 411-420	2.3	9
6	Germination and seedling growth of prairie grass, tall fescue and Italian ryegrass at different temperatures. <i>Australian Journal of Agricultural Research</i> , <b>1985</b> , 36, 13		39
5	Growth of seedlings of prairie grass and tall fescue in small swards of kikuyu at different temperatures. <i>Australian Journal of Agricultural Research</i> , <b>1985</b> , 36, 213		1
4	A comparison of the growth of seedlings of Mediterranean and temperate tall fescues, phalaris and annual ryegrass. <i>Australian Journal of Experimental Agriculture</i> , <b>1985</b> , 25, 818		5
3	Primary growth and regrowth responses of temperate grasses to different temperatures and cutting frequencies. <i>Australian Journal of Agricultural Research</i> , <b>1985</b> , 36, 25		11
2	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> , <b>1985</b> , 25, 806		5
1	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> , <b>1980</b> , 20, 377		30