

# Jeffrey L Privette

## List of Publications by Year in descending order

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73  
papers

11,337  
citations

61984

43  
h-index

123424

61  
g-index

73  
all docs

73  
docs citations

73  
times ranked

10073  
citing authors

#	ARTICLE	IF	CITATIONS
1	First operational BRDF, albedo nadir reflectance products from MODIS. Remote Sensing of Environment, 2002, 83, 135-148.	11.0	2,022
2	Global products of vegetation leaf area and fraction absorbed PAR from year one of MODIS data. Remote Sensing of Environment, 2002, 83, 214-231.	11.0	1,647
3	The Moderate Resolution Imaging Spectroradiometer (MODIS): land remote sensing for global change research. IEEE Transactions on Geoscience and Remote Sensing, 1998, 36, 1228-1249.	6.3	1,178
4	Atmospheric correction of visible to middle-infrared EOS-MODIS data over land surfaces: Background, operational algorithm and validation. Journal of Geophysical Research, 1997, 102, 17131-17141.	3.3	480
5	Large seasonal swings in leaf area of Amazon rainforests. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 4820-4823.	7.1	376
6	Validation of global moderate-resolution LAI products: a framework proposed within the CEOS land product validation subgroup. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1804-1817.	6.3	341
7	MODIS leaf area index products: from validation to algorithm improvement. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1885-1898.	6.3	291
8	The MODIS (Collection V005) BRDF/albedo product: Assessment of spatial representativeness over forested landscapes. Remote Sensing of Environment, 2009, 113, 2476-2498.	11.0	272
9	Inversion methods for physically-based models. International Journal of Remote Sensing, 2000, 18, 381-439.	1.0	248
10	A framework for the validation of MODIS Land products. Remote Sensing of Environment, 2002, 83, 77-96.	11.0	239
11	Developments in the 'validation' of satellite sensor products for the study of the land surface. International Journal of Remote Sensing, 2000, 21, 3383-3390.	2.9	237
12	Optical remote sensing of vegetation: Modeling, caveats, and algorithms. Remote Sensing of Environment, 1995, 51, 169-188.	11.0	230
13	Measuring Fractional Cover and Leaf Area Index in Arid Ecosystems. Remote Sensing of Environment, 2000, 74, 45-57.	11.0	224
14	Africa burning: A thematic analysis of the Southern African Regional Science Initiative (SAFARI 2000). Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	204
15	Assessing the coupling between surface albedo derived from MODIS and the fraction of diffuse skylight over spatially-characterized landscapes. Remote Sensing of Environment, 2010, 114, 738-760.	11.0	204
16	Multiscale analysis and validation of the MODIS LAI product. Uncertainty assessment. Remote Sensing of Environment, 2002, 83, 414-430.	11.0	174
17	Evaluation of fraction of absorbed photosynthetically active radiation products for different canopy radiation transfer regimes: Methodology and results using Joint Research Center products derived from SeaWiFS against ground-based estimations. Journal of Geophysical Research, 2006, 111, .	3.3	144
18	Impact of Tissue, Canopy, and Landscape Factors on the Hyperspectral Reflectance Variability of Arid Ecosystems. Remote Sensing of Environment, 2000, 74, 69-84.	11.0	142

#	ARTICLE	IF	CITATIONS
19	Estimating spectral albedo and nadir reflectance through inversion of simple BRDF models with AVHRR/MODIS-like data. <i>Journal of Geophysical Research</i> , 1997, 102, 29529-29542.	3.3	140
20	Early spatial and temporal validation of MODIS LAI product in the Southern Africa Kalahari. <i>Remote Sensing of Environment</i> , 2002, 83, 232-243.	11.0	129
21	Validation of Land Surface Temperature products derived from the Visible Infrared Imaging Radiometer Suite (VIIRS) using ground-based and heritage satellite measurements. <i>Remote Sensing of Environment</i> , 2014, 154, 19-37.	11.0	122
22	State of the Climate in 2011. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, S1-S282.	3.3	121
23	Time-series validation of MODIS land biophysical products in a Kalahari woodland, Africa. <i>International Journal of Remote Sensing</i> , 2005, 26, 4381-4398.	2.9	115
24	Evaluation of Split-Window Land Surface Temperature Algorithms for Generating Climate Data Records. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 179-192.	6.3	107
25	Assessment of biases in MODIS surface reflectance due to Lambertian approximation. <i>Remote Sensing of Environment</i> , 2010, 114, 2791-2801.	11.0	103
26	Land Surface Temperature product validation using NOAA's surface climate observation networks—Scaling methodology for the Visible Infrared Imager Radiometer Suite (VIIRS). <i>Remote Sensing of Environment</i> , 2012, 124, 282-298.	11.0	101
27	Generating a long-term land data record from the AVHRR and MODIS Instruments. , 2007, , .		95
28	Directional effects in a daily AVHRR land surface temperature dataset over Africa. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2004, 42, 1941-1954.	6.3	93
29	U.S. temperature and drought: Recent anomalies and trends. <i>Eos</i> , 2012, 93, 473-474.	0.1	92
30	Multiscale analysis and validation of the MODIS LAI productII. Sampling strategy. <i>Remote Sensing of Environment</i> , 2002, 83, 431-441.	11.0	89
31	Developing Algorithm for Operational GOES-R Land Surface Temperature Product. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009, 47, 936-951.	6.3	89
32	Effects of orbital drift on advanced very high resolution radiometer products: Normalized difference vegetation index and sea surface temperature. <i>Remote Sensing of Environment</i> , 1995, 53, 164-171.	11.0	86
33	Relations between directional spectral vegetation indices and leaf area and absorbed radiation in Alfalfa. <i>Remote Sensing of Environment</i> , 1997, 61, 162-177.	11.0	73
34	Invertibility of a 1-D discrete ordinates canopy reflectance model. <i>Remote Sensing of Environment</i> , 1994, 48, 89-105.	11.0	69
35	Inversion of a vegetation reflectance model with NOAA AVHRR data. <i>Remote Sensing of Environment</i> , 1996, 58, 187-200.	11.0	69
36	Directional Viewing Effects on Satellite Land Surface Temperature Products Over Sparse Vegetation Canopies—A Multisensor Analysis. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2013, 10, 1464-1468.	3.1	69

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37	Analysis of the NPOESS VIIRS land surface temperature algorithm using MODIS data. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 2340-2350.	6.3	67
38	Validation of GOES-R Satellite Land Surface Temperature Algorithm Using SURFRAD Ground Measurements and Statistical Estimates of Error Properties. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 704-713.	6.3	67
39	Modeling the observed angular anisotropy of land surface temperature in a Savanna. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1036-1047.	6.3	62
40	Unmixing multiple land-cover type reflectances from coarse spatial resolution satellite data. Remote Sensing of Environment, 1995, 54, 98-112.	11.0	61
41	Development of a daily long term record of NOAA-14 AVHRR land surface temperature over Africa. Remote Sensing of Environment, 2006, 103, 153-164.	11.0	57
42	Unmixing the directional reflectances of AVHRR sub-pixel landcovers. IEEE Transactions on Geoscience and Remote Sensing, 1997, 35, 868-878.	6.3	48
43	Extracting ecological and biophysical information from AVHRR optical data: An integrated algorithm based on inverse modeling. Journal of Geophysical Research, 1996, 101, 23335-23348.	3.3	47
44	Estimating vegetation structural effects on carbon uptake using satellite data fusion and inverse modeling. Journal of Geophysical Research, 1998, 103, 28839-28853.	3.3	44
45	Vegetation structure characteristics and relationships of Kalahari woodlands and savannas. Global Change Biology, 2004, 10, 281-291.	9.5	43
46	A simulation analysis of the detectability of understory burns in miombo woodlands. Remote Sensing of Environment, 2004, 93, 296-310.	11.0	41
47	Atmospheric Correction at AERONET Locations: A New Science and Validation Data Set. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2450-2466.	6.3	38
48	A maturity model for assessing the completeness of climate data records. Eos, 2012, 93, 441-441.	0.1	33
49	The EOS Prototype Validation Exercise (PROVE) at Jornada. Remote Sensing of Environment, 2000, 74, 1-12.	11.0	32
50	A Unified Framework for Measuring Stewardship Practices Applied to Digital Environmental Datasets. Data Science Journal, 2015, 13, 231-252.	1.3	31
51	Inversion of a soil bidirectional reflectance model for use with vegetation reflectance models. Journal of Geophysical Research, 1995, 100, 25497.	3.3	29
52	Optimal sampling conditions for estimating grassland parameters via reflectance. IEEE Transactions on Geoscience and Remote Sensing, 1996, 34, 272-284.	6.3	29
53	Near-real time retrievals of land surface temperature within the MODIS Rapid Response System. Remote Sensing of Environment, 2007, 106, 326-336.	11.0	25
54	A new method of retrieving surface bidirectional reflectance from ground measurements: Atmospheric sensitivity study. Journal of Geophysical Research, 1999, 104, 6257-6268.	3.3	23

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55	Local analysis of MISR surface BRDF and albedo over GSFC and mongu AERONET sites. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1707-1718.	6.3	19
56	Modeling and Inversion in Thermal Infrared Remote Sensing over Vegetated Land Surfaces. , 2008, , 245-291.		16
57	Sustained Production of Multidecadal Climate Records: Lessons from the NOAA Climate Data Record Program. Bulletin of the American Meteorological Society, 2016, 97, 1573-1581.	3.3	16
58	Inversion of a physically based bidirectional reflectance model of vegetation. IEEE Transactions on Geoscience and Remote Sensing, 1997, 35, 687-698.	6.3	13
59	Scientific Stewardship in the Open Data and Big Data Era — Roles and Responsibilities of Stewards and Other Major Product Stakeholders. D-Lib Magazine, 2016, 22, .	0.5	13
60	Modeling the bidirectional reflectance distribution function of mixed finite plant canopies and soil. Journal of Geophysical Research, 1994, 99, 10577.	3.3	10
61	Creating Proxy VIIRS Data From MODIS: Spectral Transformations for Mid- and Thermal-Infrared Bands. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3768-3782.	6.3	10
62	The Evolution of U.S. Moderate Resolution Optical Land Remote Sensing from AVHRR to VIIRS. Remote Sensing and Digital Image Processing, 2010, , 781-806.	0.7	10
63	Southern Africa as a remote sensing test bed: the SAFARI 2000 Special Issue overview. International Journal of Remote Sensing, 2005, 26, 4141-4158.	2.9	9
64	<title>Fitting remote sensing data with linear bidirectional reflectance models</title>. , 1995, , .		7
65	Assessments of multisensor vegetation index dependencies with hyperspectral and tower flux data. , 2006, , .		7
66	Correcting land surface temperature measurements for directional emissivity over 3D structured vegetation. , 2006, 6298, 310.		4
67	Pre-launch evaluation of the NPP VIIRS Land and Cryosphere EDRs to meet NASA's science requirements. , 2011, , .		4
68	Validation of Global Land-Cover Products by the Committee on Earth Observing Satellites. , 2004, , 31-40.		4
69	Status of the Suomi NPP visible/infrared imager radiometer suite's (VIIRS) land environmental data records (EDRs) after early evaluation of on-orbit performance. , 2012, , .		2
70	A new approach for radiometric cross calibration of satellite-borne radiometers. , 0, , .		1
71	Algorithm development for land surface temperature measurement from GOES-R satellite. Proceedings of SPIE, 2007, , .	0.8	0
72	Operational environmental satellite archives in the 21st Century. Proceedings of SPIE, 2007, , .	0.8	0

#	ARTICLE	IF	CITATIONS
73	NPP VIIRS land surface temperature product validation using worldwide observation networks. , 2013, , ·		0