Philip E Lewis

List of Publications by Year
in descending order

52	9,514	94433	182427
papers	citations	37 h-index	51 g-index

53	53	53	9645
all docs	docs citations	times ranked	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	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
3	Fast Automatic Precision Tree Models from Terrestrial Laser Scanner Data. Remote Sensing, 2013, 5, 491-520.	4.0	528
4	Prototyping a global algorithm for systematic fire-affected area mapping using MODIS time series data. Remote Sensing of Environment, 2005, 97, 137-162.	11.0	439
5	Retrieval and global assessment of terrestrial chlorophyll fluorescence from GOSAT space measurements. Remote Sensing of Environment, 2012, 121, 236-251.	11.0	436
6	Multi-temporal MODISâ€“Landsat data fusion for relative radiometric normalization, gap filling, and prediction of Landsat data. Remote Sensing of Environment, 2008, 112, 3112-3130.	11.0	430
7	Hyperspectral remote sensing of foliar nitrogen content. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E185-92.	7.1	389
8	Burned area mapping using multi-temporal moderate spatial resolution dataâ€”a bi-directional reflectance model-based expectation approach. Remote Sensing of Environment, 2002, 83, 263-286.	11.0	294
9	Quantifying Vegetation Biophysical Variables from Imaging Spectroscopy Data: A Review on Retrieval Methods. Surveys in Geophysics, 2019, 40, 589-629.	4.6	265
10	Geostatistical classification for remote sensing: an introduction. Computers and Geosciences, 2000, 26, 361-371.	4.2	245
11	Can we measure terrestrial photosynthesis from space directly, using spectral reflectance and fluorescence?. Global Change Biology, 2007, 13, 1484-1497.	9.5	224
12	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
13	Assimilation of remote sensing into crop growth models: Current status and perspectives. Agricultural and Forest Meteorology, 2019, 276-277, 107609.	4.8	182
14	An assessment of the MODIS collection 5 leaf area index product for a region of mixed coniferous forest. Remote Sensing of Environment, 2011, 115, 767-780.	11.0	173
15	The fourth phase of the radiative transfer model intercomparison (RAMI) exercise: Actual canopy scenarios and conformity testing. Remote Sensing of Environment, 2015, 169, 418-437.	11.0	170
16	3D modelling of forest canopy structure for remote sensing simulations in the optical and microwave domains. Remote Sensing of Environment, 2006, 100, 114-132.	11.0	144
17	Canopy spectral invariants for remote sensing and model applications. Remote Sensing of Environment, 2007, 106, 106-122.	11.0	129
18	Spectral invariants and scattering across multiple scales from within-leaf to canopy. Remote Sensing of Environment, 2007, 109, 196-206.	11.0	124

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19	Assimilating canopy reflectance data into an ecosystem model with an Ensemble Kalman Filter. Remote Sensing of Environment, 2008, 112, 1347-1364.	11.0	123
20	Monte Carlo ray tracing in optical canopy reflectance modelling. International Journal of Remote Sensing, 2000, 18, 163-196.	1.0	117
21	Simulating the impact of discrete-return lidar system and survey characteristics over young conifer and broadleaf forests. Remote Sensing of Environment, 2010, 114, 1546-1560.	11.0	115
22	Evaluation of regional estimates of winter wheat yield by assimilating three remotely sensed reflectance datasets into the coupled WOFOSTâ€“PROSAIL model. European Journal of Agronomy, 2019, 102, 1-13.	4.1	111
23	Investigation of the Utility of Spectral Vegetation Indices for Determining Information on Coniferous Forests. Remote Sensing of Environment, 1998, 66, 250-272.	11.0	109
24	Direct retrieval of canopy gap probability using airborne waveform lidar. Remote Sensing of Environment, 2013, 134, 24-38.	11.0	102
25	Developing a dual-wavelength full-waveform terrestrial laser scanner to characterize forest canopy structure. Agricultural and Forest Meteorology, 2014, 198-199, 7-14.	4.8	100
26	Three-dimensional plant modelling for remote sensing simulation studies using the Botanical Plant Modelling System. Agronomy for Sustainable Development, 1999, 19, 185-210.	0.8	96
27	Realistic Forest Stand Reconstruction from Terrestrial LiDAR for Radiative Transfer Modelling. Remote Sensing, 2018, 10, 933.	4.0	94
28	An Earth Observation Land Data Assimilation System (EO-LDAS). Remote Sensing of Environment, 2012, 120, 219-235.	11.0	87
29	The RAMI On-line Model Checker (ROMC): A web-based benchmarking facility for canopy reflectance models. Remote Sensing of Environment, 2008, 112, 1144-1150.	11.0	85
30	The Global Impact of Clouds on the Production of MODIS Bidirectional Reflectance Model-Based Composites for Terrestrial Monitoring. IEEE Geoscience and Remote Sensing Letters, 2006, 3, 452-456.	3.1	77
31	Efficient Emulation of Radiative Transfer Codes Using Gaussian Processes and Application to Land Surface Parameter Inferences. Remote Sensing, 2016, 8, 119.	4.0	76
32	Strong constraint on modelled global carbon uptake using solar-induced chlorophyll fluorescence data. Scientific Reports, 2018, 8, 1973.	3.3	69
33	Waveform lidar over vegetation: An evaluation of inversion methods for estimating return energy. Remote Sensing of Environment, 2015, 164, 208-224.	11.0	60
34	3D radiative transfer modelling of fire impacts on a two-layer savanna system. Remote Sensing of Environment, 2011, 115, 1866-1881.	11.0	54
35	Measuring forests with dual wavelength lidar: A simulation study over topography. Agricultural and Forest Meteorology, 2012, 161, 123-133.	4.8	50
36	Topographic effects in AVHRR NDVI data. Remote Sensing of Environment, 1995, 54, 223-232.	11.0	47

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37	Retrieval of canopy height using moderate-resolution imaging spectroradiometer (MODIS) data. Remote Sensing of Environment, 2011, 115, 1595-1601.	11.0	44
38	Temporal Constraints on Linear BRDF Model Parameters. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2445-2450.	6.3	37
39	Investigating assumptions of crown archetypes for modelling LiDAR returns. Remote Sensing of Environment, 2013, 134, 39-49.	11.0	35
40	Upscaling as ecological information transfer: a simple framework with application to Arctic ecosystem carbon exchange. Landscape Ecology, 2009, 24, 971-986.	4.2	34
41	A New Global fAPAR and LAI Dataset Derived from Optimal Albedo Estimates: Comparison with MODIS Products. Remote Sensing, 2016, 8, 275.	4.0	34
42	Quantifying Surface Reflectivity for Spaceborne Lidar via Two Independent Methods. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 3262-3271.	6.3	33
43	A threshold insensitive method for locating the forest canopy top with waveform lidar. Remote Sensing of Environment, 2011, 115, 3286-3297.	11.0	33
44	On the potential of CHRIS/PROBA for estimating vegetation canopy properties from space. International Journal of Remote Sensing, 2000, 19, 171-189.	1.0	25
45	Deriving albedo maps for HAPEX-Sahel from ASAS data using kernel-driven BRDF models. Hydrology and Earth System Sciences, 1999, 3, 1-11.	4.9	24
46	Estimation of FAPAR over Croplands Using MISR Data and the Earth Observation Land Data Assimilation System (EO-LDAS). Remote Sensing, 2017, 9, 656.	4.0	17
47	A parametric radiative transfer model for sky radiance distribution. Journal of Quantitative Spectroscopy and Radiative Transfer, 1996, 55, 181-189.	2.3	14
48	Reply to Townsend et al.: Decoupling contributions from canopy structure and leaf optics is critical for remote sensing leaf biochemistry. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1075.	7.1	12
49	Reply to Ollinger et al.: Remote sensing of leaf nitrogen and emergent ecosystem properties. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2438.	7.1	11
50	Decoupling Canopy Structure and Leaf Biochemistry: Testing the Utility of Directional Area Scattering Factor (DASF). Remote Sensing, 2018, 10, 1911.	4.0	7
51	Land Surface Processes Analysis Using Sentinel-3 OLCI and Modis Data. , 2018, , .		0
52	Using Satellite Observations in Regional Scale Calculations of Carbon Exchange. Ecological Studies, 2008, , 309-339.	1.2	0