

Philip Lewis

List of Publications by Year in descending order

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92
papers

10,926
citations

53794

45
h-index

71685

76
g-index

97
all docs

97
docs citations

97
times ranked

10636
citing authors

#	ARTICLE	IF	CITATIONS
1	COVID-19: Heterogeneous Excess Mortality and “Burden of Disease” in Germany and Italy and Their States and Regions, January–June 2020. <i>Frontiers in Public Health</i> , 2021, 9, 663259.	2.7	12
2	Comment on “COVID-19, the Built Environment, and Health”. <i>Environmental Health Perspectives</i> , 2021, 129, 098001.	6.0	0
3	Towards standard assessments of sleep as an exposure: an initiative for an important research area. <i>Sleep Medicine</i> , 2021, 88, 187-188.	1.6	3
4	What if “the Moon provides zeitgeber signals to humans?”. <i>Molecular Psychiatry</i> , 2020, 25, 2646-2647.	7.9	4
5	SARS-CoV-2/COVID-19 and physical distancing: risk for circadian rhythm dysregulation, advice to alleviate it, and natural experiment research opportunities. <i>Chronobiology International</i> , 2020, 37, 1106-1109.	2.0	14
6	COVID-19 and “natural” experiments arising from physical distancing: a hypothetical case study from chronobiology. <i>Chronobiology International</i> , 2020, 37, 1115-1117.	2.0	8
7	Food as a circadian time cue “evidence from human studies. <i>Nature Reviews Endocrinology</i> , 2020, 16, 213-223.	9.6	104
8	COVID-19: science must not be the boy who cried wolf. <i>Journal of Epidemiology and Community Health</i> , 2020, 74, jech-2020-214448.	3.7	1
9	The COVID-19 Pandemic. <i>Circulation</i> , 2020, 142, 309-311.	1.6	11
10	Quantifying Vegetation Biophysical Variables from Imaging Spectroscopy Data: A Review on Retrieval Methods. <i>Surveys in Geophysics</i> , 2019, 40, 589-629.	4.6	265
11	Assimilation of remote sensing into crop growth models: Current status and perspectives. <i>Agricultural and Forest Meteorology</i> , 2019, 276-277, 107609.	4.8	182
12	Theoretical uncertainties for global satellite-derived burned area estimates. <i>Biogeosciences</i> , 2019, 16, 3147-3164.	3.3	12
13	Evaluation of regional estimates of winter wheat yield by assimilating three remotely sensed reflectance datasets into the coupled WFOST–PROSAIL model. <i>European Journal of Agronomy</i> , 2019, 102, 1-13.	4.1	111
14	Hypothesis: Folklore perpetuated expression of moon-associated bipolar disorders in anecdotally exaggerated werewolf guise. <i>Medical Hypotheses</i> , 2019, 122, 129-133.	1.5	6
15	Chronotype and beyond: 17 building blocks to reconcile and explore internal time architecture. <i>Chronobiology International</i> , 2019, 36, 299-303.	2.0	5
16	Ticking time bomb? High time for chronobiological research. <i>EMBO Reports</i> , 2018, 19, .	4.5	13
17	Strong constraint on modelled global carbon uptake using solar-induced chlorophyll fluorescence data. <i>Scientific Reports</i> , 2018, 8, 1973.	3.3	69
18	Generation of Functioning Nephrons by Implanting Human Pluripotent Stem Cell-Derived Kidney Progenitors. <i>Stem Cell Reports</i> , 2018, 10, 766-779.	4.8	134

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19	Variability and bias in active and passive ground-based measurements of effective plant, wood and leaf area index. <i>Agricultural and Forest Meteorology</i> , 2018, 252, 231-240.	4.8	55
20	Computing sleep deficiency. <i>Journal of Sleep Research</i> , 2018, 27, e12630.	3.2	7
21	Exercise time cues (zeitgebers) for human circadian systems can foster health and improve performance: a systematic review. <i>BMJ Open Sport and Exercise Medicine</i> , 2018, 4, e000443.	2.9	72
22	Decoupling Canopy Structure and Leaf Biochemistry: Testing the Utility of Directional Area Scattering Factor (DASF). <i>Remote Sensing</i> , 2018, 10, 1911.	4.0	7
23	Land Surface Processes Analysis Using Sentinel-3 OLCI and Modis Data. , 2018, , .		0
24	Realistic Forest Stand Reconstruction from Terrestrial LiDAR for Radiative Transfer Modelling. <i>Remote Sensing</i> , 2018, 10, 933.	4.0	94
25	Estimation of FAPAR over Croplands Using MISR Data and the Earth Observation Land Data Assimilation System (EO-LDAS). <i>Remote Sensing</i> , 2017, 9, 656.	4.0	17
26	A New Global fAPAR and LAI Dataset Derived from Optimal Albedo Estimates: Comparison with MODIS Products. <i>Remote Sensing</i> , 2016, 8, 275.	4.0	34
27	Efficient Emulation of Radiative Transfer Codes Using Gaussian Processes and Application to Land Surface Parameter Inferences. <i>Remote Sensing</i> , 2016, 8, 119.	4.0	76
28	Large-area virtual forests from terrestrial laser scanning data. , 2016, , .		6
29	A general method to normalize Landsat reflectance data to nadir BRDF adjusted reflectance. <i>Remote Sensing of Environment</i> , 2016, 176, 255-271.	11.0	238
30	Waveform lidar over vegetation: An evaluation of inversion methods for estimating return energy. <i>Remote Sensing of Environment</i> , 2015, 164, 208-224.	11.0	60
31	The fourth phase of the radiative transfer model intercomparison (RAMI) exercise: Actual canopy scenarios and conformity testing. <i>Remote Sensing of Environment</i> , 2015, 169, 418-437.	11.0	170
32	Developing a dual-wavelength full-waveform terrestrial laser scanner to characterize forest canopy structure. <i>Agricultural and Forest Meteorology</i> , 2014, 198-199, 7-14.	4.8	100
33	Sensitivity of direct canopy gap fraction retrieval from airborne waveform lidar to topography and survey characteristics. <i>Remote Sensing of Environment</i> , 2014, 143, 15-25.	11.0	24
34	Investigating assumptions of crown archetypes for modelling LiDAR returns. <i>Remote Sensing of Environment</i> , 2013, 134, 39-49.	11.0	35
35	Direct retrieval of canopy gap probability using airborne waveform lidar. <i>Remote Sensing of Environment</i> , 2013, 134, 24-38.	11.0	102
36	Reply to Townsend et al.: Decoupling contributions from canopy structure and leaf optics is critical for remote sensing leaf biochemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E1075.	7.1	12

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37	Rapid characterisation of forest structure from TLS and 3D modelling. , 2013, , .		11
38	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
39	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
40	The fourth radiation transfer model intercomparison (RAMI-IV): Proficiency testing of canopy reflectance models with ISO-13528. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6869-6890.	3.3	102
41	Fast Automatic Precision Tree Models from Terrestrial Laser Scanner Data. Remote Sensing, 2013, 5, 491-520.	4.0	528
42	The ESA global Albedo project: Algorithm. , 2012, , .		11
43	Effects of clumping on modelling LiDAR waveforms in forest canopies. , 2012, , .		0
44	An Earth Observation Land Data Assimilation System (EO-LDAS). Remote Sensing of Environment, 2012, 120, 219-235.	11.0	87
45	Retrieval and global assessment of terrestrial chlorophyll fluorescence from GOSAT space measurements. Remote Sensing of Environment, 2012, 121, 236-251.	11.0	436
46	Measuring forests with dual wavelength lidar: A simulation study over topography. Agricultural and Forest Meteorology, 2012, 161, 123-133.	4.8	50
47	A threshold insensitive method for locating the forest canopy top with waveform lidar. Remote Sensing of Environment, 2011, 115, 3286-3297.	11.0	33
48	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
49	Retrieval of canopy height using moderate-resolution imaging spectroradiometer (MODIS) data. Remote Sensing of Environment, 2011, 115, 1595-1601.	11.0	44
50	3D radiative transfer modelling of fire impacts on a two-layer savanna system. Remote Sensing of Environment, 2011, 115, 1866-1881.	11.0	54
51	Temporal Constraints on Linear BRDF Model Parameters. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2445-2450.	6.3	37
52	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
53	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
54	On canopy spectral invariants and hyperspectral ray tracing. , 2010, , .		0

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55	Satellite monitoring of disturbances in Arctic ecosystems. , 2009, , .		0
56	Quantifying Surface Reflectivity for Spaceborne Lidar via Two Independent Methods. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 3262-3271.	6.3	33
57	Upscaling as ecological information transfer: a simple framework with application to Arctic ecosystem carbon exchange. Landscape Ecology, 2009, 24, 971-986.	4.2	34
58	Modelling the impact of wildfire on spectral reflectance. , 2009, , .		0
59	Probabilistic calibration of a coupled ecosystem and fire model using satellite data. , 2009, , .		1
60	Assimilating canopy reflectance data into an ecosystem model with an Ensemble Kalman Filter. Remote Sensing of Environment, 2008, 112, 1347-1364.	11.0	123
61	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
62	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
63	Impact of land cover uncertainties on estimates of biospheric carbon fluxes. Global Biogeochemical Cycles, 2008, 22, .	4.9	68
64	Assimilating Earth Observation Data into Land Surface Models. , 2008, , .		0
65	Extracting Tree Heights over Topography with Multi-Spectral Spaceborne Waveform Lidar. , 2008, , .		0
66	Using Remote Sensing Data to Quantify Changes in Vegetation over Peatland Areas. , 2008, , .		0
67	Quantifying Surface Reflectivity for Spaceborne Lidar Missions. , 2008, , .		1
68	Estimating the Spatial Exchange of Carbon through the Assimilation of Earth Observation Derived Products using an Ensemble Kalman Filter. , 2008, , .		0
69	Assimilating MODIS reflectance data into an ecosystem model to improve estimates of terrestrial carbon flux: recent progress. , 2007, , .		1
70	Third Radiation Transfer Model Intercomparison (RAMI) exercise: Documenting progress in canopy reflectance models. Journal of Geophysical Research, 2007, 112, .	3.3	193
71	Canopy spectral invariants for remote sensing and model applications. Remote Sensing of Environment, 2007, 106, 106-122.	11.0	129
72	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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73	Can we measure terrestrial photosynthesis from space directly, using spectral reflectance and fluorescence?. <i>Global Change Biology</i> , 2007, 13, 1484-1497.	9.5	224
74	Fluorescence EXplorer (FLEX): an optimised payload to map vegetation photosynthesis from space. , 2006, , .		9
75	3D modelling of forest canopy structure for remote sensing simulations in the optical and microwave domains. <i>Remote Sensing of Environment</i> , 2006, 100, 114-132.	11.0	144
76	The Global Impact of Clouds on the Production of MODIS Bidirectional Reflectance Model-Based Composites for Terrestrial Monitoring. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2006, 3, 452-456.	3.1	77
77	Prototyping a global algorithm for systematic fire-affected area mapping using MODIS time series data. <i>Remote Sensing of Environment</i> , 2005, 97, 137-162.	11.0	439
78	Comparison of MODIS broadband albedo over an agricultural site with ground measurements and values derived from Earth observation data at a range of spatial scales. <i>International Journal of Remote Sensing</i> , 2004, 25, 5297-5317.	2.9	29
79	Burned area mapping using multi-temporal moderate spatial resolution dataâ€”a bi-directional reflectance model-based expectation approach. <i>Remote Sensing of Environment</i> , 2002, 83, 263-286.	11.0	294
80	First operational BRDF, albedo nadir reflectance products from MODIS. <i>Remote Sensing of Environment</i> , 2002, 83, 135-148.	11.0	2,022
81	On the potential of CHRIS/PROBA for estimating vegetation canopy properties from space. <i>International Journal of Remote Sensing</i> , 2000, 19, 171-189.	1.0	25
82	Geostatistical classification for remote sensing: an introduction. <i>Computers and Geosciences</i> , 2000, 26, 361-371.	4.2	245
83	Monte Carlo ray tracing in optical canopy reflectance modelling. <i>International Journal of Remote Sensing</i> , 2000, 18, 163-196.	1.0	117
84	Theoretical noise sensitivity of BRDF and albedo retrieval from the EOS-MODIS and MISR sensors with respect to angular sampling. <i>International Journal of Remote Sensing</i> , 2000, 21, 81-98.	2.9	172
85	Deriving albedo maps for HAPEX-Sahel from ASAS data using kernel-driven BRDF models. <i>Hydrology and Earth System Sciences</i> , 1999, 3, 1-11.	4.9	24
86	Three-dimensional plant modelling for remote sensing simulation studies using the Botanical Plant Modelling System. <i>Agronomy for Sustainable Development</i> , 1999, 19, 185-210.	0.8	96
87	Investigation of the Utility of Spectral Vegetation Indices for Determining Information on Coniferous Forests. <i>Remote Sensing of Environment</i> , 1998, 66, 250-272.	11.0	109
88	The Moderate Resolution Imaging Spectroradiometer (MODIS): land remote sensing for global change research. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1998, 36, 1228-1249.	6.3	1,178
89	On the information content of multiple view angle (MVA) images. <i>International Journal of Remote Sensing</i> , 1997, 18, 1937-1960.	2.9	61
90	Estimating land surface albedo in the HAPEX-Sahel southern super-site: inversion of two BRDF models against multiple angle ASAS images. <i>Journal of Hydrology</i> , 1997, 188-189, 749-778.	5.4	22

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91	A parametric radiative transfer model for sky radiance distribution. Journal of Quantitative Spectroscopy and Radiative Transfer, 1996, 55, 181-189.	2.3	14
92	Topographic effects in AVHRR NDVI data. Remote Sensing of Environment, 1995, 54, 223-232.	11.0	47