Kerry Cawse-Nicholson

List of Publications by Year
in descending order

37 papers	1,128 citations	516710 16 h-index	414414 32 g-index

46 all docs	46 docs citations	46 times ranked	1750 citing authors

#	Article	IF	Citations
1	ECOSTRESS: NASA's Next Generation Mission to Measure Evapotranspiration From the International Space Station. Water Resources Research, 2020, 56, e2019WR026058.	4.2	220
2	NASA's surface biology and geology designated observable: A perspective on surface imaging algorithms. Remote Sensing of Environment, 2021, 257, 112349.	11.0	148
3	Flux towers in the sky: global ecology from space. New Phytologist, 2019, 224, 570-584.	7.3	111
4	Detecting forest response to droughts with global observations of vegetation water content. Global Change Biology, 2021, 27, 6005-6024.	9.5	73
5	Interoperability of ECOSTRESS and Landsat for mapping evapotranspiration time series at sub-field scales. Remote Sensing of Environment, 2021, 252, 112189.	11.0	71
6	Marker-Free Registration of Forest Terrestrial Laser Scanner Data Pairs With Embedded Confidence Metrics. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4314-4330.	6.3	54
7	Determining the Intrinsic Dimension of a Hyperspectral Image Using Random Matrix Theory. IEEE Transactions on Image Processing, 2013, 22, 1301-1310.	9.8	47
8	Validation and Quality Assessment of the ECOSTRESS Level-2 Land Surface Temperature and Emissivity Product. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-23.	6.3	46
9	In-Flight Validation of the ECOSTRESS, Landsats 7 and 8 Thermal Infrared Spectral Channels Using the Lake Tahoe CA/NV and Salton Sea CA Automated Validation Sites. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1294-1302.	6.3	38
10	Single-Scan Stem Reconstruction Using Low-Resolution Terrestrial Laser Scanner Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 3414-3427.	4.9	36
11	3D Tree Reconstruction from Simulated Small Footprint Waveform Lidar. Photogrammetric Engineering and Remote Sensing, 2013, 79, 1147-1157.	0.6	30
12	A unified approach to estimate land and water reflectances with uncertainties for coastal imaging spectroscopy. Remote Sensing of Environment, 2019, 231, 111198.	11.0	25
13	Estimation of the Intrinsic Dimension of Hyperspectral Images: Comparison of Current Methods. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2854-2861.	4.9	21
14	Extracting Structural Vegetation Components From Small-Footprint Waveform Lidar for Biomass Estimation in Savanna Ecosystems. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 480-490.	4.9	19
15	Multiview Marker-Free Registration of Forest Terrestrial Laser Scanner Data With Embedded Confidence Metrics. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 729-741.	6.3	17
16	Towards a Unified and Coherent Land Surface Temperature Earth System Data Record from Geostationary Satellites. Remote Sensing, 2019, 11, 1399.	4.0	17
17	The Spectral Mixture Residual: A Source of Lowâ€Variance Information to Enhance the Explainability and Accuracy of Surface Biology and Geology Retrievals. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	17
18	Assessing the impact of broadleaf tree structure on airborne full-waveform small-footprint LiDAR signals through simulation. Canadian Journal of Remote Sensing, 2013, 39, S60-S72.	2.4	14

#	Article	IF	Citations
19	Intrinsic Dimensionality in Combined Visible to Thermal Infrared Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4977-4984.	4.9	14
20	Uncertainty quantification for a global imaging spectroscopy surface composition investigation. Remote Sensing of Environment, 2020, 251, 112038.	11.0	14
21	Sensitivity and uncertainty quantification for the ECOSTRESS evapotranspiration algorithm â€“ DisALEXI. International Journal of Applied Earth Observation and Geoinformation, 2020, 89, 102088.	2.8	13
22	Classification and extraction of trees and buildings from urban scenes using discrete return LiDAR and aerial color imagery. , 2013, , .		11
23	The Effect of Correlation on Determining the Intrinsic Dimension of a Hyperspectral Image. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 482-487.	4.9	11
24	Reconstruction of 3D tree stem models from low-cost terrestrial laser scanner data. Proceedings of SPIE, 2013, , .	0.8	10
25	Ecosystem responses to elevated CO₂ using airborne remote sensing at Mammoth Mountain, California. Biogeosciences, 2018, 15, 7403-7418.	3.3	7
26	Evaluation of a CONUS-Wide ECOSTRESS DisALEXI Evapotranspiration Product. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 10117-10133.	4.9	6
27	Climatology of the Combined ASTER MODIS Emissivity over Land (CAMEL) Version 2. Remote Sensing, 2021, 13, 111.	4.0	6
28	The effect of noise whitening on methods for determining the intrinsic dimension of a hyperspectral image. , 2011, , .		4
29	The effect of spectrally correlated noise on noise estimation methods for hyperspectral images. , 2012, , .		4
30	On the Fusion of Lidar and Aerial Color Imagery to Detect Urban Vegetation and Buildings. Photogrammetric Engineering and Remote Sensing, 2017, 83, 123-136.	0.6	4
31	Plant responses to volcanically elevated CO₂ in two Costa Rican forests. Biogeosciences, 2019, 16, 1343-1360.	3.3	4
32	Spectral Fidelity of Earth's Terrestrial and Aquatic Ecosystems. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006273.	3.0	4
33	Improving waveform lidar processing toward robust deconvolution of signals for improved structural assessments. Proceedings of SPIE, 2014, , .	0.8	2
34	Evaluation of bands containing spectrally correlated noise in hyperspectral imagery. , 2013, , .		1
35	Joint VSWIR-TIR retrievals of earth's surface and atmosphere. Remote Sensing of Environment, 2021, 267, 112727.	11.0	1
36	Use of ECOSTRESS data for measurements of the surface water temperature: Significance of data filtering in accuracy assessment. Remote Sensing Applications: Society and Environment, 2022, 26, 100739.	1.5	1

#	Article	IF	Citations
37	Enhancing classification accuracy via registration of discrete return LiDAR and aerial imagery using the Levenberg-Marquardt nonlinear optimization method. , 2013, , .		0