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	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
2	The Spectral Mixture Residual: A Source of Low-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
3	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
4	Interoperability of ECOSTRESS and Landsat for mapping evapotranspiration time series at sub-field scales. Remote Sensing of Environment, 2021, 252, 112189.	11.0	71
5	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
6	NASA's surface biology and geology designated observable: A perspective on surface imaging algorithms. Remote Sensing of Environment, 2021, 257, 112349.	11.0	148
7	Spectral Fidelity of Earth's Terrestrial and Aquatic Ecosystems. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006273.	3.0	4
8	Detecting forest response to droughts with global observations of vegetation water content. Global Change Biology, 2021, 27, 6005-6024.	9.5	73
9	Climatology of the Combined ASTER MODIS Emissivity over Land (CAMEL) Version 2. Remote Sensing, 2021, 13, 111.	4.0	6
10	Joint VSWIR-TIR retrievals of earth's surface and atmosphere. Remote Sensing of Environment, 2021, 267, 112727.	11.0	1
11	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
12	Uncertainty quantification for a global imaging spectroscopy surface composition investigation. Remote Sensing of Environment, 2020, 251, 112038.	11.0	14
13	Sensitivity and uncertainty quantification for the ECOSTRESS evapotranspiration algorithm – DisALEXI. International Journal of Applied Earth Observation and Geoinformation, 2020, 89, 102088.	2.8	13
14	ECOSTRESS: NASA's Next Generation Mission to Measure Evapotranspiration From the International Space Station. Water Resources Research, 2020, 56, e2019WR026058.	4.2	220
15	Towards a Unified and Coherent Land Surface Temperature Earth System Data Record from Geostationary Satellites. Remote Sensing, 2019, 11, 1399.	4.0	17
16	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
17	Flux towers in the sky: global ecology from space. New Phytologist, 2019, 224, 570-584.	7.3	111
18	Plant responses to volcanically elevated CO&lt;sub&gt;2&lt;/sub&gt; in two Costa Rican forests. Biogeosciences, 2019, 16, 1343-1360.	3.3	4

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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	Ecosystem responses to elevated CO_2 using airborne remote sensing at Mammoth Mountain, California. Biogeosciences, 2018, 15, 7403-7418.	3.3	7
21	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
22	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
23	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
24	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
25	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
26	Improving waveform lidar processing toward robust deconvolution of signals for improved structural assessments. Proceedings of SPIE, 2014, , .	0.8	2
27	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
28	Enhancing classification accuracy via registration of discrete return LiDAR and aerial imagery using the Levenberg-Marquardt nonlinear optimization method. , 2013, , .		0
29	Determining the Intrinsic Dimension of a Hyperspectral Image Using Random Matrix Theory. IEEE Transactions on Image Processing, 2013, 22, 1301-1310.	9.8	47
30	Classification and extraction of trees and buildings from urban scenes using discrete return LiDAR and aerial color imagery. , 2013, , .		11
31	Reconstruction of 3D tree stem models from low-cost terrestrial laser scanner data. Proceedings of SPIE, 2013, , .	0.8	10
32	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
33	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
34	3D Tree Reconstruction from Simulated Small Footprint Waveform Lidar. Photogrammetric Engineering and Remote Sensing, 2013, 79, 1147-1157.	0.6	30
35	Evaluation of bands containing spectrally correlated noise in hyperspectral imagery. , 2013, , .		1
36	The effect of spectrally correlated noise on noise estimation methods for hyperspectral images. , 2012, , .		4

#	Article	IF	Citations
37	The effect of noise whitening on methods for determining the intrinsic dimension of a hyperspectral image. , 2011, , .		4

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