Baodong Xu

List of Publications by Year
in descending order

41 papers	2,574 citations	394421 19 h-index	315739 38 g-index
41 all docs	41 docs citations	41 times ranked	2807 citing authors

#	ARTICLE	IF	CITATIONS
1	China and India lead in greening of the world through land-use management. Nature Sustainability, 2019, 2, 122-129.	23.7	1,636
2	Assimilating Soil Moisture Retrieved from Sentinel-1 and Sentinel-2 Data into WOFOST Model to Improve Winter Wheat Yield Estimation. Remote Sensing, 2019, 11, 1618.	4.0	73
3	Generating Global Products of LAI and FPAR From SNPP-VIIRS Data: Theoretical Background and Implementation. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2119-2137.	6.3	71
4	An integrated method for validating long-term leaf area index products using global networks of site-based measurements. Remote Sensing of Environment, 2018, 209, 134-151.	11.0	70
5	Analysis of Global LAI/FPAR Products from VIIRS and MODIS Sensors for Spatio-Temporal Consistency and Uncertainty from 2012–2016. Forests, 2018, 9, 73.	2.1	63
6	PLC: A simple and semi-physical topographic correction method for vegetation canopies based on path length correction. Remote Sensing of Environment, 2018, 215, 184-198.	11.0	58
7	Derivation of temporally continuous LAI reference maps through combining the LAINet observation system with CACAO. Agricultural and Forest Meteorology, 2017, 233, 209-221.	4.8	42
8	Evaluation of Global Decametric-Resolution LAI, FAPAR and FVC Estimates Derived from Sentinel-2 Imagery. Remote Sensing, 2020, 12, 912.	4.0	42
9	Regional Leaf Area Index Retrieval Based on Remote Sensing: The Role of Radiative Transfer Model Selection. Remote Sensing, 2015, 7, 4604-4625.	4.0	40
10	Improving Leaf Area Index Retrieval Over Heterogeneous Surface by Integrating Textural and Contextual Information: A Case Study in the Heihe River Basin. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 359-363.	3.1	32
11	An Optimal Sampling Design for Observing and Validating Long-Term Leaf Area Index with Temporal Variations in Spatial Heterogeneities. Remote Sensing, 2015, 7, 1300-1319.	4.0	29
12	A radiative transfer model for solar induced fluorescence using spectral invariants theory. Remote Sensing of Environment, 2020, 240, 111678.	11.0	29
13	Performance stability of the MODIS and VIIRS LAI algorithms inferred from analysis of long time series of products. Remote Sensing of Environment, 2021, 260, 112438.	11.0	29
14	Leaf Area Index Retrieval Combining HJ1/CCD and Landsat8/OLI Data in the Heihe River Basin, China. Remote Sensing, 2015, 7, 6862-6885.	4.0	27
15	A Radiative Transfer Model for Heterogeneous Agro-Forestry Scenarios. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4613-4628.	6.3	27
16	A Sampling Strategy for Remotely Sensed LAI Product Validation Over Heterogeneous Land Surfaces. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3128-3142.	4.9	25
17	Global Land Cover Heterogeneity Characteristics at Moderate Resolution for Mixed Pixel Modeling and Inversion. Remote Sensing, 2018, 10, 856.	4.0	25
18	Evaluating Spatial Representativeness of Station Observations for Remotely Sensed Leaf Area Index Products. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 3267-3282.	4.9	24

#	Article	IF	Citations
19	Improving leaf area index retrieval over heterogeneous surface mixed with water. Remote Sensing of Environment, 2020, 240, 111700.	11.0	19
20	Estimating Sub-Pixel Soybean Fraction from Time-Series MODIS Data Using an Optimized Geographically Weighted Regression Model. Remote Sensing, 2018, 10, 491.	4.0	18
21	Comparative Analysis of Chinese HJ-1 CCD, GF-1 WFV and ZY-3 MUX Sensor Data for Leaf Area Index Estimations for Maize. Remote Sensing, 2018, 10, 68.	4.0	17
22	Spectral Invariant Provides a Practical Modeling Approach for Future Biophysical Variable Estimations. Remote Sensing, 2018, 10, 1508.	4.0	17
23	Implications of Whole-Disc DSCOVR EPIC Spectral Observations for Estimating Earth's Spectral Reflectivity Based on Low-Earth-Orbiting and Geostationary Observations. Remote Sensing, 2018, 10, 1594.	4.0	16
24	Extracting Leaf Area Index by Sunlit Foliage Component from Downward-Looking Digital Photography under Clear-Sky Conditions. Remote Sensing, 2015, 7, 13410-13435.	4.0	15
25	Topographic Correction of Forest Image Data Based on the Canopy Reflectance Model for Sloping Terrains in Multiple Forward Mode. Remote Sensing, 2018, 10, 717.	4.0	15
26	Estimating fractional vegetation cover from leaf area index and clumping index based on the gap probability theory. International Journal of Applied Earth Observation and Geoinformation, 2020, 90, 102112.	2.8	15
27	A Cost-Constrained Sampling Strategy in Support of LAI Product Validation in Mountainous Areas. Remote Sensing, 2016, 8, 704.	4.0	14
28	Path Length Correction for Improving Leaf Area Index Measurements Over Sloping Terrains: A Deep Analysis Through Computer Simulation. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4573-4589.	6.3	13
29	An Iterative BRDF/NDVI Inversion Algorithm Based on <italic>A Posteriori</italic> Variance Estimation of Observation Errors. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6481-6496.	6.3	12
30	Retrieval of High Spatiotemporal Resolution Leaf Area Index with Gaussian Processes, Wireless Sensor Network, and Satellite Data Fusion. Remote Sensing, 2019, 11, 244.	4.0	11
31	Topographic Correction for Landsat 8 OLI Vegetation Reflectances Through Path Length Correction: A Comparison Between Explicit and Implicit Methods. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8477-8489.	6.3	11
32	An Adaptive Image Segmentation Method with Automatic Selection of Optimal Scale for Extracting Cropland Parcels in Smallholder Farming Systems. Remote Sensing, 2022, 14, 3067.	4.0	11
33	A Radiative Transfer Model for Patchy Landscapes Based on Stochastic Radiative Transfer Theory. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2571-2589.	6.3	6
34	Validation of Sentinel-2, MODIS, CGLS, SAF, GLASS and C3S Leaf Area Index Products in Maize Crops. Remote Sensing, 2021, 13, 4529.	4.0	5
35	An Object- and Topology-Based Analysis (OTBA) Method for Mapping Rice-Crayfish Fields in South China. Remote Sensing, 2021, 13, 4666.	4.0	5
36	TCNIRv: Topographically Corrected Near-Infrared Reflectance of Vegetation for Tracking Gross Primary Production Over Mountainous Areas. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	6.3	5

#	Article	IF	Citations
37	Generating High-Resolution and Long-Term SPEI Dataset over Southwest China through Downscaling EEAD Product by Machine Learning. Remote Sensing, 2022, 14, 1662.	4.0	3
38	A methodology to estimate representativeness of LAI station observation for validation: a case study with Chinese Ecosystem Research Network (CERN)in situdata. , 2014, , .		2
39	PLC-C: An Integrated Method for Sentinel-2 Topographic and Angular Normalization. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1446-1450.	3.1	2
40	A canopy radiative transfer model suitable for heterogeneous Agro-Forestry scenes. , 2016, , .		0
41	A method for spatial upscaling of ground LAI measurements to the remotely sensed product pixel grid. , 2016, , .		0