John David Armston

List of Publications by Year
in descending order

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60 papers	4,944 citations	117625 34 h-index	155660 55 g-index
60 all docs	60 docs citations	60 times ranked	5734 citing authors

#	Article	IF	Citations
1	An integrated panâ€tropical biomass map using multiple reference datasets. Global Change Biology, 2016, 22, 1406-1420.	9.5	469
2	Nondestructive estimates of aboveâ€ground biomass using terrestrial laser scanning. Methods in Ecology and Evolution, 2015, 6, 198-208.	5.2	449
3	Mapping global forest canopy height through integration of GEDI and Landsat data. Remote Sensing of Environment, 2021, 253, 112165.	11.0	436
4	The Global Ecosystem Dynamics Investigation: High-resolution laser ranging of the Earthâ€™s forests and topography. Science of Remote Sensing, 2020, 1, 100002.	4.8	429
5	Rapid and robust monitoring of flood events using Sentinel-1 and Landsat data on the Google Earth Engine. Remote Sensing of Environment, 2020, 240, 111664.	11.0	224
6	An Evaluation of the ALOS PALSAR L-Band Backscatterâ€”Above Ground Biomass Relationship Queensland, Australia: Impacts of Surface Moisture Condition and Vegetation Structure. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2010, 3, 576-593.	4.9	216
7	Terrestrial laser scanning in forest ecology: Expanding the horizon. Remote Sensing of Environment, 2020, 251, 112102.	11.0	208
8	Biomass estimation from simulated GEDI, ICESat-2 and NISAR across environmental gradients in Sonoma County, California. Remote Sensing of Environment, 2020, 242, 111779.	11.0	152
9	The GEDI Simulator: A Largeâ€Footprint Waveform Lidar Simulator for Calibration and Validation of Spaceborne Missions. Earth and Space Science, 2019, 6, 294-310.	2.6	140
10	Aboveground biomass density models for NASAâ€™s Global Ecosystem Dynamics Investigation (GEDI) lidar mission. Remote Sensing of Environment, 2022, 270, 112845.	11.0	108
11	Direct retrieval of canopy gap probability using airborne waveform lidar. Remote Sensing of Environment, 2013, 134, 24-38.	11.0	102
12	Fusing simulated GEDI, ICESat-2 and NISAR data for regional aboveground biomass mapping. Remote Sensing of Environment, 2021, 253, 112234.	11.0	99
13	Ground Data are Essential for Biomass Remote Sensing Missions. Surveys in Geophysics, 2019, 40, 863-880.	4.6	91
14	Multi-resolution time series imagery for forest disturbance and regrowth monitoring in Queensland, Australia. Remote Sensing of Environment, 2015, 158, 156-168.	11.0	89
15	Global canopy height regression and uncertainty estimation from GEDI LIDAR waveforms with deep ensembles. Remote Sensing of Environment, 2022, 268, 112760.	11.0	89
16	New Opportunities for Forest Remote Sensing Through Ultra-High-Density Drone Lidar. Surveys in Geophysics, 2019, 40, 959-977.	4.6	82
17	Implications of sensor configuration and topography on vertical plant profiles derived from terrestrial LiDAR. Agricultural and Forest Meteorology, 2014, 194, 104-117.	4.8	80
18	Integration of LiDAR and QuickBird imagery for mapping riparian biophysical parameters and land cover types in Australian tropical savannas. Forest Ecology and Management, 2010, 259, 598-606.	3.2	79

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19	Monitoring spring phenology with high temporal resolution terrestrial LiDAR measurements. Agricultural and Forest Meteorology, 2015, 203, 158-168.	4.8	79
20	Forest biomass estimation over three distinct forest types using TanDEM-X InSAR data and simulated GEDI lidar data. Remote Sensing of Environment, 2019, 232, 111283.	11.0	79
21	Characterizing global forest canopy cover distribution using spaceborne lidar. Remote Sensing of Environment, 2019, 231, 111262.	11.0	79
22	Improved forest height estimation by fusion of simulated GEDI Lidar data and TanDEM-X InSAR data. Remote Sensing of Environment, 2019, 221, 621-634.	11.0	74
23	Understanding the variability in ground-based methods for retrieving canopy openness, gap fraction, and leaf area index in diverse forest systems. Agricultural and Forest Meteorology, 2015, 205, 83-95.	4.8	68
24	Integration of radar and Landsat-derived foliage projected cover for woody regrowth mapping, Queensland, Australia. Remote Sensing of Environment, 2006, 100, 388-406.	11.0	63
25	Waveform lidar over vegetation: An evaluation of inversion methods for estimating return energy. Remote Sensing of Environment, 2015, 164, 208-224.	11.0	60
26	Mapping riparian condition indicators in a sub-tropical savanna environment from discrete return LiDAR data using object-based image analysis. Ecological Indicators, 2010, 10, 796-807.	6.3	59
27	A Python-Based Open Source System for Geographic Object-Based Image Analysis (GEOBIA) Utilizing Raster Attribute Tables. Remote Sensing, 2014, 6, 6111-6135.	4.0	59
28	Statistical properties of hybrid estimators proposed for GEDIâ€"NASAâ€™s global ecosystem dynamics investigation. Environmental Research Letters, 2019, 14, 065007.	5.2	56
29	Variability and bias in active and passive ground-based measurements of effective plant, wood and leaf area index. Agricultural and Forest Meteorology, 2018, 252, 231-240.	4.8	55
30	Evaluation of the Range Accuracy and the Radiometric Calibration of Multiple Terrestrial Laser Scanning Instruments for Data Interoperability. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2716-2724.	6.3	50
31	A method for mapping Australian woody vegetation cover by linking continental-scale field data and long-term Landsat time series. International Journal of Remote Sensing, 2017, 38, 679-705.	2.9	47
32	Sorted pulse data (SPD) library. Part I: A generic file format for LiDAR data from pulsed laser systems in terrestrial environments. Computers and Geosciences, 2013, 56, 197-206.	4.2	44
33	The impact of geolocation uncertainty on GEDI tropical forest canopy height estimation and change monitoring. Science of Remote Sensing, 2021, 4, 100024.	4.8	38
34	Assessing the repeatability of terrestrial laser scanning for monitoring gully topography: A case study from Aratula, Queensland, Australia. Geomorphology, 2016, 262, 24-36.	2.6	36
35	3D Imaging Insights into Forests and Coral Reefs. Trends in Ecology and Evolution, 2020, 35, 6-9.	8.7	36
36	Measurement of Forest Above-Ground Biomass Using Active and Passive Remote Sensing at Large (Subnational to Global) Scales. Current Forestry Reports, 2015, 1, 162-177.	7.4	34

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37	Distinguishing vegetation types with airborne waveform lidar data in a tropical forest-savanna mosaic: A case study in LopÃ© National Park, Gabon. Remote Sensing of Environment, 2018, 216, 626-634.	11.0	34
38	Sorted pulse data (SPD) libraryâ€"Part II: A processing framework for LiDAR data from pulsed laser systems in terrestrial environments. Computers and Geosciences, 2013, 56, 207-215.	4.2	33
39	The NASA AfriSAR campaign: Airborne SAR and lidar measurements of tropical forest structure and biomass in support of current and future space missions. Remote Sensing of Environment, 2021, 264, 112533.	11.0	33
40	Evaluating the potential of fullâ€waveform lidar for mapping panâ€tropical tree species richness. Global Ecology and Biogeography, 2020, 29, 1799-1816.	5.8	31
41	A Structural Classification of Australian Vegetation Using ICESat/GLAS, ALOS PALSAR, and Landsat Sensor Data. Remote Sensing, 2019, 11, 147.	4.0	30
42	Mapping forest growth and degradation stage in the Brigalow Belt Bioregion of Australia through integration of ALOS PALSAR and Landsat-derived foliage projective cover data. Remote Sensing of Environment, 2014, 155, 42-57.	11.0	27
43	Detecting Change in Forest Structure with Simulated GEDI Lidar Waveforms: A Case Study of the Hemlock Woolly Adelgid (HWA; Adelges tsugae) Infestation. Remote Sensing, 2020, 12, 1304.	4.0	25
44	New 3D measurements of large redwood trees for biomass and structure. Scientific Reports, 2020, 10, 16721.	3.3	22
45	Assessing the structural differences between tropical forest types using Terrestrial Laser Scanning. Forest Ecology and Management, 2018, 429, 327-335.	3.2	20
46	Modelling canopy gap probability, foliage projective cover and crown projective cover from airborne lidar metrics in Australian forests and woodlands. Remote Sensing of Environment, 2020, 237, 111520.	11.0	19
47	An Approach to Mapping Forest Growth Stages in Queensland, Australia through Integration of ALOS PALSAR and Landsat Sensor Data. Remote Sensing, 2012, 4, 2236-2255.	4.0	18
48	Early Lessons on Combining Lidar and Multi-baseline SAR Measurements for Forest Structure Characterization. Surveys in Geophysics, 2019, 40, 803-837.	4.6	16
49	The 2016 NASA AfriSAR campaign: Airborne SAR and Lidar measurements of tropical forest structure and biomass in support of future satellite missions. , 2017, , .		13
50	An Accuracy Assessment of Derived Digital Elevation Models from Terrestrial Laser Scanning in a Sub-Tropical Forested Environment. Remote Sensing, 2017, 9, 843.	4.0	12
51	Relating foliage and crown projective cover in Australian tree stands. Agricultural and Forest Meteorology, 2018, 259, 39-47.	4.8	12
52	Challenges to aboveground biomass prediction from waveform lidar. Environmental Research Letters, 2021, 16, 125013.	5.2	9
53	Assessing Amazon rainforest regrowth with GEDI and ICESat-2 data. Science of Remote Sensing, 2022, 5, 100051.	4.8	8
54	Regional Tropical Aboveground Biomass Mapping with L-Band Repeat-Pass Interferometric Radar, Sparse Lidar, and Multiscale Superpixels. Remote Sensing, 2020, 12, 2048.	4.0	7

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55	Comprehensive comparison of airborne and spaceborne SAR and LiDAR estimates of forest structure in the tallest mangrove forest on earth. Science of Remote Sensing, 2021, 4, 100034.	4.8	7
56	Assessing Human Impacts on Australian Forests through Integration of Remote Sensing Data. , 2008, , 213-239.		6
57	Alternatives to Landsat-5 Thematic Mapper for operational monitoring of vegetation cover: considerations for natural resource management agencies. Canadian Journal of Remote Sensing, 2010, 36, 682-698.	2.4	3
58	Estimation of pasture biomass and soil-moisture using dual-polarimetric X and L band SAR - accuracy assessment with field data. , 2010, , .		1
59	The impact of sensor characteristics for obtaining accurate ground-based measurements of LAI. , 2013, , .		0
60	Contribution of ALOS PALSAR data to forest characterization and monitoring in Australia. , 2015, , .		0