

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	Global canopy height regression and uncertainty estimation from GEDI LIDAR waveforms with deep ensembles. <i>Remote Sensing of Environment</i> , 2022, 268, 112760.	11.0	89
2	Aboveground biomass density models for NASA's Global Ecosystem Dynamics Investigation (GEDI) lidar mission. <i>Remote Sensing of Environment</i> , 2022, 270, 112845.	11.0	108
3	Assessing Amazon rainforest regrowth with GEDI and ICESat-2 data. <i>Science of Remote Sensing</i> , 2022, 5, 100051.	4.8	8
4	Mapping global forest canopy height through integration of GEDI and Landsat data. <i>Remote Sensing of Environment</i> , 2021, 253, 112165.	11.0	436
5	Fusing simulated GEDI, ICESat-2 and NISAR data for regional aboveground biomass mapping. <i>Remote Sensing of Environment</i> , 2021, 253, 112234.	11.0	99
6	The NASA AfriSAR campaign: Airborne SAR and lidar measurements of tropical forest structure and biomass in support of current and future space missions. <i>Remote Sensing of Environment</i> , 2021, 264, 112533.	11.0	33
7	The impact of geolocation uncertainty on GEDI tropical forest canopy height estimation and change monitoring. <i>Science of Remote Sensing</i> , 2021, 4, 100024.	4.8	38
8	Challenges to aboveground biomass prediction from waveform lidar. <i>Environmental Research Letters</i> , 2021, 16, 125013.	5.2	9
9	Comprehensive comparison of airborne and spaceborne SAR and LiDAR estimates of forest structure in the tallest mangrove forest on earth. <i>Science of Remote Sensing</i> , 2021, 4, 100034.	4.8	7
10	3D Imaging Insights into Forests and Coral Reefs. <i>Trends in Ecology and Evolution</i> , 2020, 35, 6-9.	8.7	36
11	Modelling canopy gap probability, foliage projective cover and crown projective cover from airborne lidar metrics in Australian forests and woodlands. <i>Remote Sensing of Environment</i> , 2020, 237, 111520.	11.0	19
12	Terrestrial laser scanning in forest ecology: Expanding the horizon. <i>Remote Sensing of Environment</i> , 2020, 251, 112102.	11.0	208
13	New 3D measurements of large redwood trees for biomass and structure. <i>Scientific Reports</i> , 2020, 10, 16721.	3.3	22
14	Evaluating the potential of full-waveform lidar for mapping pan-tropical tree species richness. <i>Global Ecology and Biogeography</i> , 2020, 29, 1799-1816.	5.8	31
15	Detecting Change in Forest Structure with Simulated GEDI Lidar Waveforms: A Case Study of the Hemlock Woolly Adelgid (HWA; <i>Adelges tsugae</i>) Infestation. <i>Remote Sensing</i> , 2020, 12, 1304.	4.0	25
16	Regional Tropical Aboveground Biomass Mapping with L-Band Repeat-Pass Interferometric Radar, Sparse Lidar, and Multiscale Superpixels. <i>Remote Sensing</i> , 2020, 12, 2048.	4.0	7
17	The Global Ecosystem Dynamics Investigation: High-resolution laser ranging of the Earth's forests and topography. <i>Science of Remote Sensing</i> , 2020, 1, 100002.	4.8	429
18	Rapid and robust monitoring of flood events using Sentinel-1 and Landsat data on the Google Earth Engine. <i>Remote Sensing of Environment</i> , 2020, 240, 111664.	11.0	224

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19	Biomass estimation from simulated GEDI, ICESat-2 and NISAR across environmental gradients in Sonoma County, California. <i>Remote Sensing of Environment</i> , 2020, 242, 111779.	11.0	152
20	Statistical properties of hybrid estimators proposed for GEDI's NASA's global ecosystem dynamics investigation. <i>Environmental Research Letters</i> , 2019, 14, 065007.	5.2	56
21	New Opportunities for Forest Remote Sensing Through Ultra-High-Density Drone Lidar. <i>Surveys in Geophysics</i> , 2019, 40, 959-977.	4.6	82
22	Early Lessons on Combining Lidar and Multi-baseline SAR Measurements for Forest Structure Characterization. <i>Surveys in Geophysics</i> , 2019, 40, 803-837.	4.6	16
23	Forest biomass estimation over three distinct forest types using TanDEM-X InSAR data and simulated GEDI lidar data. <i>Remote Sensing of Environment</i> , 2019, 232, 111283.	11.0	79
24	Characterizing global forest canopy cover distribution using spaceborne lidar. <i>Remote Sensing of Environment</i> , 2019, 231, 111262.	11.0	79
25	The GEDI Simulator: A Large-Footprint Waveform Lidar Simulator for Calibration and Validation of Spaceborne Missions. <i>Earth and Space Science</i> , 2019, 6, 294-310.	2.6	140
26	Ground Data are Essential for Biomass Remote Sensing Missions. <i>Surveys in Geophysics</i> , 2019, 40, 863-880.	4.6	91
27	A Structural Classification of Australian Vegetation Using ICESat/GLAS, ALOS PALSAR, and Landsat Sensor Data. <i>Remote Sensing</i> , 2019, 11, 147.	4.0	30
28	Improved forest height estimation by fusion of simulated GEDI Lidar data and TanDEM-X InSAR data. <i>Remote Sensing of Environment</i> , 2019, 221, 621-634.	11.0	74
29	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
30	Distinguishing vegetation types with airborne waveform lidar data in a tropical forest-savanna mosaic: A case study in Lopé National Park, Gabon. <i>Remote Sensing of Environment</i> , 2018, 216, 626-634.	11.0	34
31	Assessing the structural differences between tropical forest types using Terrestrial Laser Scanning. <i>Forest Ecology and Management</i> , 2018, 429, 327-335.	3.2	20
32	Relating foliage and crown projective cover in Australian tree stands. <i>Agricultural and Forest Meteorology</i> , 2018, 259, 39-47.	4.8	12
33	Evaluation of the Range Accuracy and the Radiometric Calibration of Multiple Terrestrial Laser Scanning Instruments for Data Interoperability. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 2716-2724.	6.3	50
34	A method for mapping Australian woody vegetation cover by linking continental-scale field data and long-term Landsat time series. <i>International Journal of Remote Sensing</i> , 2017, 38, 679-705.	2.9	47
35	The 2016 NASA AfriSAR campaign: Airborne SAR and Lidar measurements of tropical forest structure and biomass in support of future satellite missions. , 2017, , .		13
36	An Accuracy Assessment of Derived Digital Elevation Models from Terrestrial Laser Scanning in a Sub-Tropical Forested Environment. <i>Remote Sensing</i> , 2017, 9, 843.	4.0	12

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37	An integrated pan-tropical biomass map using multiple reference datasets. <i>Global Change Biology</i> , 2016, 22, 1406-1420.	9.5	469
38	Assessing the repeatability of terrestrial laser scanning for monitoring gully topography: A case study from Aratula, Queensland, Australia. <i>Geomorphology</i> , 2016, 262, 24-36.	2.6	36
39	Contribution of ALOS PALSAR data to forest characterization and monitoring in Australia. , 2015, , .		0
40	Monitoring spring phenology with high temporal resolution terrestrial LiDAR measurements. <i>Agricultural and Forest Meteorology</i> , 2015, 203, 158-168.	4.8	79
41	Understanding the variability in ground-based methods for retrieving canopy openness, gap fraction, and leaf area index in diverse forest systems. <i>Agricultural and Forest Meteorology</i> , 2015, 205, 83-95.	4.8	68
42	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
43	Measurement of Forest Above-Ground Biomass Using Active and Passive Remote Sensing at Large (Subnational to Global) Scales. <i>Current Forestry Reports</i> , 2015, 1, 162-177.	7.4	34
44	Nondestructive estimates of above-ground biomass using terrestrial laser scanning. <i>Methods in Ecology and Evolution</i> , 2015, 6, 198-208.	5.2	449
45	Multi-resolution time series imagery for forest disturbance and regrowth monitoring in Queensland, Australia. <i>Remote Sensing of Environment</i> , 2015, 158, 156-168.	11.0	89
46	A Python-Based Open Source System for Geographic Object-Based Image Analysis (GEOBIA) Utilizing Raster Attribute Tables. <i>Remote Sensing</i> , 2014, 6, 6111-6135.	4.0	59
47	Implications of sensor configuration and topography on vertical plant profiles derived from terrestrial LiDAR. <i>Agricultural and Forest Meteorology</i> , 2014, 194, 104-117.	4.8	80
48	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. <i>Remote Sensing of Environment</i> , 2014, 155, 42-57.	11.0	27
49	Sorted pulse data (SPD) library—Part II: A processing framework for LiDAR data from pulsed laser systems in terrestrial environments. <i>Computers and Geosciences</i> , 2013, 56, 207-215.	4.2	33
50	Sorted pulse data (SPD) library. Part I: A generic file format for LiDAR data from pulsed laser systems in terrestrial environments. <i>Computers and Geosciences</i> , 2013, 56, 197-206.	4.2	44
51	Direct retrieval of canopy gap probability using airborne waveform lidar. <i>Remote Sensing of Environment</i> , 2013, 134, 24-38.	11.0	102
52	The impact of sensor characteristics for obtaining accurate ground-based measurements of LAI. , 2013, , .		0
53	An Approach to Mapping Forest Growth Stages in Queensland, Australia through Integration of ALOS PALSAR and Landsat Sensor Data. <i>Remote Sensing</i> , 2012, 4, 2236-2255.	4.0	18
54	Alternatives to Landsat-5 Thematic Mapper for operational monitoring of vegetation cover: considerations for natural resource management agencies. <i>Canadian Journal of Remote Sensing</i> , 2010, 36, 682-698.	2.4	3

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55	Estimation of pasture biomass and soil-moisture using dual-polarimetric X and L band SAR - accuracy assessment with field data. , 2010, , .		1
56	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
57	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
58	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
59	Assessing Human Impacts on Australian Forests through Integration of Remote Sensing Data. , 2008, , 213-239.		6
60	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