Atticus E L Stovall

List of Publications by Year
in descending order

26 papers	1,157 citations	516710 16 h-index	610901 24 g-index
29 all docs	29 docs citations	29 times ranked	1647 citing authors

#	Article	IF	Citations
1	Terrestrial laser scanning in forest ecology: Expanding the horizon. Remote Sensing of Environment, 2020, 251, 112102.	11.0	208
2	Tree height explains mortality risk during an intense drought. Nature Communications, 2019, 10, 4385.	12.8	191
3	Non-destructive aboveground biomass estimation of coniferous trees using terrestrial LiDAR. Remote Sensing of Environment, 2017, 200, 31-42.	11.0	115
4	Quantifying vegetation and canopy structural complexity from terrestrial Li<scp>DAR</scp> data using the <scp>forestr r</scp> package. Methods in Ecology and Evolution, 2018, 9, 2057-2066.	5.2	76
5	Assessing terrestrial laser scanning for developing non-destructive biomass allometry. Forest Ecology and Management, 2018, 427, 217-229.	3.2	69
6	FluoSpec 2â€"An Automated Field Spectroscopy System to Monitor Canopy Solar-Induced Fluorescence. Sensors, 2018, 18, 2063.	3.8	67
7	Tree height and leaf drought tolerance traits shape growth responses across droughts in a temperate broadleaf forest. New Phytologist, 2021, 231, 601-616.	7.3	63
8	Variability and uncertainty in forest biomass estimates from the tree to landscape scale: the role of allometric equations. Carbon Balance and Management, 2020, 15, 8.	3.2	54
9	Improved Biomass Calibration and Validation With Terrestrial LiDAR: Implications for Future LiDAR and SAR Missions. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3527-3537.	4.9	41
10	Application of multidimensional structural characterization to detect and describe moderate forest disturbance. Ecosphere, 2020, 11, e03156.	2.2	32
11	Macroecological patterns of forest structure and allometric scaling in mangrove forests. Global Ecology and Biogeography, 2021, 30, 1000-1013.	5.8	32
12	Microtopography is a fundamental organizing structure of vegetation and soil chemistry in black ash wetlands. Biogeosciences, 2020, 17, 901-915.	3.3	25
13	Quantifying wetland microtopography with terrestrial laser scanning. Remote Sensing of Environment, 2019, 232, 111271.	11.0	22
14	Trees outside forests are an underestimated resourceÂin aÂcountryÂwith low forest cover. Scientific Reports, 2021, 11, 7919.	3.3	22
15	TLSL<scp>e</scp>AF: automatic leaf angle estimates from singleâ€scan terrestrial laser scanning. New Phytologist, 2021, 232, 1876-1892.	7.3	22
16	Vegetation structural complexity and biodiversity in the Great Smoky Mountains. Ecosphere, 2021, 12, e03390.	2.2	21
17	Pattern and structure of microtopography implies autogenic origins in forested wetlands. Hydrology and Earth System Sciences, 2019, 23, 5069-5088.	4.9	18
18	Reply to â€œHeight-related changes in forest composition explain increasing tree mortality with height during an extreme droughtâ€. Nature Communications, 2020, 11, 3401.	12.8	16

#	Article	IF	Citations
19	Mapping Temperate Forest Phenology Using Tower, UAV, and Ground-Based Sensors. Drones, 2020, 4, 56.	4.9	13
20	Open-Source tools in R for forestry and forest ecology. Forest Ecology and Management, 2022, 503, 119813.	3.2	12
21	Power law scaling relationships link canopy structural complexity and height across forest types. Functional Ecology, 2022, 36, 713-726.	3.6	10
22	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
23	Terrestrial LiDAR-derived non-destructive woody biomass estimates for 10 hardwood species in Virginia. Data in Brief, 2018, 19, 1560-1569.	1.0	5
24	Recovery: Fast and Slow—Vegetation Response During the 2012–2016 California Drought. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG005976.	3.0	5
25	Evaluating Current and Future Sensor-Specific Biomass Calibration in the Tallest Mangrove Forest on Earth. , 2020, , .		1
26	Measuring Forests In 3D To Improve Global Carbon estimates. , 2018, , .		0