Sylvie Durrieu

List of Publications by Year
in descending order

33 papers	**1,312** citations
15 h-index	**25** g-index
33 all docs	**33** docs citations
33 times ranked	**1781** citing authors

567281

580821

#	Article	IF	Citations
1	Unveil the unseen: Using LiDAR to capture time‐lag dynamics in the herbaceous layer of European temperate forests. Journal of Ecology, 2022, 110, 282-300.	4.0	10
2	Combining LiDAR Metrics and Sentinel-2 Imagery to Estimate Basal Area and Wood Volume in Complex Forest Environment via Neural Networks. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 4337-4348.	4.9	4
3	Influence of Sampling Design Parameters on Biomass Predictions Derived from Airborne LiDAR Data. Canadian Journal of Remote Sensing, 2019, 45, 650-672.	2.4	8
4	Reconstruction of Airborne Laser Scanner Trajectory From Data. , 2019, , .		0
5	Enhanced Measurements of Leaf Area Density with T-LiDAR: Evaluating and Calibrating the Effects of Vegetation Heterogeneity and Scanner Properties. Remote Sensing, 2018, 10, 1580.	4.0	22
6	Estimation of 3D vegetation density with Terrestrial Laser Scanning data using voxels. A sensitivity analysis of influencing parameters. Remote Sensing of Environment, 2017, 191, 373-388.	11.0	81
7	Mapping plant area index of tropical evergreen forest by airborne laser scanning. A cross-validation study using LAI2200 optical sensor. Remote Sensing of Environment, 2017, 198, 254-266.	11.0	71
8	Preface for the SilviLaser 2015 special section. Remote Sensing of Environment, 2017, 194, 412-413.	11.0	0
9	Stand-level wind damage can be assessed using diachronic photogrammetric canopy height models. Annals of Forest Science, 2017, 74, 1.	2.0	4
10	Use of airborne lidar data to improve plant species richness and diversity monitoring in lowland and mountain forests. PLoS ONE, 2017, 12, e0184524.	2.5	9
11	On the interest of penetration depth, canopy area and volume metrics to improve Lidar-based models of forest parameters. Remote Sensing of Environment, 2016, 175, 32-42.	11.0	50
12	Discrete Anisotropic Radiative Transfer (DART 5) for Modeling Airborne and Satellite Spectroradiometer and LIDAR Acquisitions of Natural and Urban Landscapes. Remote Sensing, 2015, 7, 1667-1701.	4.0	234
13	Generalizing predictive models of forest inventory attributes using an area-based approach with airborne LiDAR data. Remote Sensing of Environment, 2015, 156, 322-334.	11.0	263
14	PTrees: A point-based approach to forest tree extraction from lidar data. International Journal of Applied Earth Observation and Geoinformation, 2014, 33, 98-108.	2.8	116
15	Stem Volume and Above-Ground Biomass Estimation of Individual Pine Trees From LiDAR Data: Contribution of Full-Waveform Signals. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 924-934.	4.9	53
16	Earth observation from space â€" The issue of environmental sustainability. Space Policy, 2013, 29, 238-250.	1.5	35
17	Preliminary studies for a vegetation ladar/lidar space mission in france. , 2013, , .		10
18	Object-based image analysis for operational fine-scale regional mapping of land cover within river corridors from multispectral imagery and thematic data. International Journal of Remote Sensing, 2012, 33, 4603-4633.	2.9	14

#	Article	IF	Citations
19	A New Method for Incorporating Hillslope Effects to Improve Canopy-Height Estimates From Large-Footprint LIDAR Waveforms. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 730-734.	3.1	9
20	A sequential iterative dual-filter for Lidar terrain modeling optimized for complex forested environments. Computers and Geosciences, 2012, 44, 31-41.	4.2	22
21	Multi-level filtering segmentation to measure individual tree parameters based on Lidar data: Application to a mountainous forest with heterogeneous stands. International Journal of Applied Earth Observation and Geoinformation, 2011, 13, 646-656.	2.8	53
22	Improving the quantification of land cover pressure on stream ecological status at the riparian scale using High Spatial Resolution Imagery. Physics and Chemistry of the Earth, 2011, 36, 549-559.	2.9	20
23	Potential of an ultraviolet, medium-footprint lidar prototype for retrieving forest structure. ISPRS Journal of Photogrammetry and Remote Sensing, 2011, 66, S92-S102.	11.1	8
24	Exploiting fullwaveform lidar signals to estimate timber volume and above-ground biomass of individual trees. , 2011, , .		4
25	From pixel to vine parcel: A complete methodology for vineyard delineation and characterization using remote-sensing data. Computers and Electronics in Agriculture, 2010, 70, 78-83.	7.7	52
26	Observing the Forest Canopy with a New Ultra-Violet Compact Airborne Lidar. Sensors, 2010, 10, 7386-7403.	3.8	16
27	Assessment of tree and crown heights of a maritime pine forest at plot level using a fullwaveform UltraViolet Lidar prototype. , 2010, , .		1
28	FullAnalyze: A Research tool for handling, processing and analyzing full-waveform lidar data. , 2009, , .		10
29	Advanced full-waveform lidar data echo detection: Assessing quality of derived terrain and tree height models in an alpine coniferous forest. International Journal of Remote Sensing, 2009, 30, 5211-5228.	2.9	92
30	Textural approaches for vineyard detection and characterization using very high spatial resolution remote sensing data. International Journal of Remote Sensing, 2008, 29, 1153-1167.	2.9	36
31	Influence of training sampling protocol and of feature space optimization methods on supervised classification results. , 2007, , .		1
32	Frequency analysis for vineyard detection and characterization from airborne images. AIP Conference Proceedings, 2006, , .	0.4	0
33	Méthode de comparaison d'images satellitaires pour la détection des changements en milieu forestier. Application aux monts de Lacaune (Tarn, France). Annales Des Sciences Forestières, 1994, 51, 147-161.	1.2	4