John P Caspersen

List of Publications by Year
in descending order

62 papers	3,120 citations	279798 23 h-index	161849 54 g-index
62 all docs	62 docs citations	62 times ranked	5380 citing authors

#	Article	IF	Citations
1	Plant functional traits have globally consistent effects on competition. Nature, 2016, 529, 204-207.	27.8	655
2	Spatial and temporal variation of biomass in a tropical forest: results from a large census plot in Panama. Journal of Ecology, 2003, 91, 240-252.	4.0	357
3	Carbon cycling under 300 years of land use change: Importance of the secondary vegetation sink. Global Biogeochemical Cycles, 2009, 23, .	4.9	338
4	Allometric equations for integrating remote sensing imagery into forest monitoring programmes. Global Change Biology, 2017, 23, 177-190.	9.5	254
5	Successional diversity and forest ecosystem function. Ecological Research, 2001, 16, 895-903.	1.5	142
6	Seedling recruitment in a northern temperate forest: the relative importance of supply and establishment limitation. Canadian Journal of Forest Research, 2005, 35, 978-989.	1.7	100
7	Interspecific variation in sapling mortality in relation to growth and soil moisture. Oikos, 2001, 92, 160-168.	2.7	90
8	Removing bias from LiDAR-based estimates of canopy height: Accounting for the effects of pulse density and footprint size. Remote Sensing of Environment, 2017, 198, 1-16.	11.0	69
9	Region merging using local spectral angle thresholds: A more accurate method for hybrid segmentation of remote sensing images. Remote Sensing of Environment, 2017, 190, 137-148.	11.0	58
10	Human-induced changes in US biogenic volatile organic compound emissions: evidence from long-term forest inventory data. Global Change Biology, 2004, 10, 1737-1755.	9.5	56
11	The changing culture of silviculture. Forestry, 2022, 95, 143-152.	2.3	54
12	Interspecific differences in sapling performance with respect to light and aridity gradients in Mediterranean pine–oak forests: implications for species coexistence. Canadian Journal of Forest Research, 2011, 41, 1432-1444.	1.7	51
13	A discrepancy measure for segmentation evaluation from the perspective of object recognition. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 101, 186-192.	11.1	51
14	How Stand Productivity Results from Size- and Competition-Dependent Growth and Mortality. PLoS ONE, 2011, 6, e28660.	2.5	51
15	Snag dynamics in partially harvested and unmanaged northern hardwood forests. Canadian Journal of Forest Research, 2006, 36, 2769-2779.	1.7	50
16	Floral free fall in the Swiss lowlands: environmental determinants of local plant extinction in a peri-urban landscape. Journal of Ecology, 2007, 95, 734-744.	4.0	47
17	Quantifying the influence of live crown ratio on the mechanical properties of clear wood. Forestry, 2013, 86, 361-369.	2.3	45
18	Contrasting downed woody debris dynamics in managed and unmanaged northern hardwood stands. Canadian Journal of Forest Research, 2008, 38, 2850-2861.	1.7	38

#	Article	IF	Citations
19	Unlocking the forest inventory data: relating individual tree performance to unmeasured environmental factors. , 2010, 20, 684-699.		37
20	Elevated mortality of residual trees following single-tree felling in northern hardwood forests. Canadian Journal of Forest Research, 2006, 36, 1255-1265.	1.7	36
21	Cavity tree occurrence in hardwood forests of central Ontario. Forest Ecology and Management, 2007, 239, 191-199.	3.2	36
22	Spatial ecology of mating success in a sexually polymorphic plant. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 387-394.	2.6	30
23	Light attenuation following selection harvesting in northern hardwood forests. Forest Ecology and Management, 2007, 239, 182-190.	3.2	29
24	Object-Based Canopy Gap Segmentation and Classification: Quantifying the Pros and Cons of Integrating Optical and LiDAR Data. Remote Sensing, 2015, 7, 15917-15932.	4.0	24
25	Comparing the life cycle impacts of using harvest residue as feedstock for small- and large-scale bioenergy systems (part I). Energy, 2015, 88, 917-926.	8.8	23
26	Seasonal controls on patterns of soil respiration and temperature sensitivity in a northern mixed deciduous forest following partial-harvesting. Forest Ecology and Management, 2015, 348, 208-219.	3.2	23
27	Estimating Stem Diameter Distributions in a Management Context for a Tolerant Hardwood Forest Using ALS Height and Intensity Data. Canadian Journal of Remote Sensing, 2017, 43, 79-94.	2.4	22
28	An Alternative Approach to Using LiDAR Remote Sensing Data to Predict Stem Diameter Distributions across a Temperate Forest Landscape. Remote Sensing, 2017, 9, 944.	4.0	22
29	Fully constrained linear spectral unmixing based global shadow compensation for high resolution satellite imagery of urban areas. International Journal of Applied Earth Observation and Geoinformation, 2015, 38, 88-98.	2.8	20
30	A mathematical framework to describe the effect of beam incidence angle on metrics derived from airborne LiDAR: The case of forest canopies approaching turbid medium behaviour. Remote Sensing of Environment, 2018, 209, 824-834.	11.0	20
31	Fineâ€Scale Habitat Associations of Redâ€Backed Voles in Boreal Mixedwood Stands. Journal of Wildlife Management, 2010, 74, 1492-1501.	1.8	18
32	A selection harvesting algorithm for use in spatially explicit individual-based forest simulation models. Ecological Modelling, 2008, 211, 251-266.	2.5	17
33	A simple system for classifying sugar maple vigour and quality. Canadian Journal of Forest Research, 2015, 45, 900-909.	1.7	17
34	Temporal dynamics and causes of postharvest mortality in a selection-managed tolerant hardwood forest. Forest Ecology and Management, 2014, 314, 183-192.	3.2	16
35	In-situ measurement of twig dieback and regrowth in mature Acer saccharum trees. Forest Ecology and Management, 2012, 270, 183-188.	3.2	15
36	A simple area-based model for predicting airborne LiDAR first returns from stem diameter distributions: an example study in an uneven-aged, mixed temperate forest. Canadian Journal of Forest Research, 2015, 45, 1338-1350.	1.7	14

#	Article	IF	Citations
37	Does intensified boreal forest harvesting impact soil microbial community structure and function?. Canadian Journal of Forest Research, 2017, 47, 916-925.	1.7	14
38	Skid trail use influences soil carbon flux and nutrient pools in a temperate hardwood forest. Forest Ecology and Management, 2017, 402, 51-62.	3.2	14
39	Comparing the life cycle costs of using harvest residue as feedstock for small- and large-scale bioenergy systems (part II). Energy, 2015, 86, 539-547.	8.8	13
40	Demographic controls of aboveground forest biomass across North America. Ecology Letters, 2016, 19, 414-423.	6.4	13
41	Fine-Scale Habitat Associations of Red-Backed Voles in Boreal Mixedwood Stands. Journal of Wildlife Management, 2010, 74, 1492-1501.	1.8	12
42	Forest Site and Type Variability in ALS-Based Forest Resource Inventory Attribute Predictions over Three Ontario Forest Sites. Forests, 2019, 10, 226.	2.1	12
43	Responses of Eastern Red-backed Salamander (*Plethodon cinereus*) abundance 1 year after application of wood ash in a northern hardwood forest. Canadian Journal of Forest Research, 2016, 46, 402-409.	1.7	10
44	An Operational Workflow of Deciduous-Dominated Forest Species Classification: Crown Delineation, Gap Elimination, and Object-Based Classification. Remote Sensing, 2019, 11, 2078.	4.0	9
45	Assessing Coarse Woody Debris Nutrient Dynamics in Managed Northern Hardwood Forests Using a Matrix Transition Model. Ecosystems, 2020, 23, 541-554.	3.4	9
46	Sources of Variation in the Net Value of Sugar Maple Trees: Implications for Tree Selection and Operations Management. Forest Products Journal, 2014, 64, 250-258.	0.4	9
47	Opportunities and limitations of thinning to increase resistance and resilience of trees and forests to global change. Forestry, 0, , .	2.3	9
48	Contributions of harvest slash to maintaining downed woody debris in selection-managed forests. Canadian Journal of Forest Research, 2010, 40, 1680-1685.	1.7	8
49	A multi-band watershed segmentation method for individual tree crown delineation from high resolution multispectral aerial image. , 2014, , .		8
50	Reproductive costs in Acer saccharum: exploring size-dependent relations between seed production and branch extension. Trees - Structure and Function, 2017, 31, 1179-1188.	1.9	8
51	Variation in stand mortality related to successional composition. Forest Ecology and Management, 2004, 200, 149-160.	3.2	7
52	Structural changes and potential vertebrate responses following simulated partial harvesting of boreal mixedwood stands. Forest Ecology and Management, 2011, 261, 1362-1371.	3.2	7
53	A self-adapted threshold-based region merging method for remote sensing image segmentation. , 2016, , .		6
54	Complementarity of gymnosperms and angiosperms along an altitudinal temperature gradient. Oikos, 2018, 127, 1787-1799.	2.7	6

#	Article	IF	Citations
55	Operational biomass recovery of small trees: equations for six central Ontario tree species. Canadian Journal of Forest Research, 2015, 45, 372-377.	1.7	5
56	Using a Data-Constrained Model of Home Range Establishment to Predict Abundance in Spatially Heterogeneous Habitats. PLoS ONE, 2012, 7, e40599.	2.5	5
57	A critique of general allometry-inspired models for estimating forest carbon density from airborne LiDAR. PLoS ONE, 2019, 14, e0215238.	2.5	4
58	Tree Foliage is a Methane Sink in Upland Temperate Forests. Ecosystems, 0, , 1.	3.4	4
59	Advancing the application of remote sensing for forest information needs in Canada: Lessons learned from a national collaboration of university, industrial and government stakeholders. Forestry Chronicle, 2021, 97, 109-126.	0.6	2
60	Individual tree-based species classification for uneven-aged, mixed-deciduous forests using multi-seasonal WorldView-3 images. , 2017, , .		1
61	Forest harvest residue recovery in semi-mechanized hardwood selection operations. International Journal of Forest Engineering, 2014, 25, 229-237.	0.8	0
62	Progrès dans l'application de la télédétection pour les besoins en matière d'information sur les forêts au Canada : leçons tirées d'une collaboration nationale d'intervenants universitaires, industriels et gouvernementaux. Forestry Chronicle, 2021, 97, 127-147.	0.6	0