

Christopher W Woodall

List of Publications by Citations

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128
papers

4,425
citations

38
h-index

62
g-index

143
ext. papers

5,218
ext. citations

4.4
avg, IF

5.75
L-index

#	Paper	IF	Citations
128	Failure to migrate: lack of tree range expansion in response to climate change. <i>Global Change Biology</i> , 2012 , 18, 1042-1052	11.4	412
127	The impacts of increasing drought on forest dynamics, structure, and biodiversity in the United States. <i>Global Change Biology</i> , 2016 , 22, 2329-52	11.4	297
126	Forest carbon storage: ecology, management, and policy. <i>Frontiers in Ecology and the Environment</i> , 2010 , 8, 245-252	5.5	176
125	An indicator of tree migration in forests of the eastern United States. <i>Forest Ecology and Management</i> , 2009 , 257, 1434-1444	3.9	162
124	More than the sum of the parts: forest climate response from joint species distribution models 2014 , 24, 990-9		145
123	Quantifying carbon stores and decomposition in dead wood: A review. <i>Forest Ecology and Management</i> , 2015 , 350, 107-128	3.9	133
122	Residence Times and Decay Rates of Downed Woody Debris Biomass/Carbon in Eastern US Forests. <i>Ecosystems</i> , 2014 , 17, 765-777	3.9	99
121	Determining maximum stand density index in mixed species stands for strategic-scale stocking assessments. <i>Forest Ecology and Management</i> , 2005 , 216, 367-377	3.9	99
120	Imputing forest carbon stock estimates from inventory plots to a nationally continuous coverage. <i>Carbon Balance and Management</i> , 2013 , 8, 1	3.6	94
119	Does biodiversity make a difference? Relationships between species richness, evolutionary diversity, and aboveground live tree biomass across U.S. forests. <i>Forest Ecology and Management</i> , 2014 , 321, 117-129	3.9	82
118	Sampling protocol, estimation, and analysis procedures for the down woody materials indicator of the FIA program 2008 ,		79
117	Woody detritus density and density reduction factors for tree species in the United States: a synthesis 2008 ,		75
116	Methods and equations for estimating aboveground volume, biomass, and carbon for trees in the U.S. forest inventory, 2010 2011 ,		75
115	Dual impacts of climate change: forest migration and turnover through life history. <i>Global Change Biology</i> , 2014 , 20, 251-64	11.4	72
114	Prevalence and strength of density-dependent tree recruitment. <i>Ecology</i> , 2015 , 96, 2319-27	4.6	68
113	Biomass and carbon attributes of downed woody materials in forests of the United States. <i>Forest Ecology and Management</i> , 2013 , 305, 48-59	3.9	68
112	National inventories of down and dead woody material forest carbon stocks in the United States: Challenges and opportunities. <i>Forest Ecology and Management</i> , 2008 , 256, 221-228	3.9	67

111	Status and future of the forest health indicators program of the USA. <i>Environmental Monitoring and Assessment</i> , 2011 , 177, 419-36	3.1	64
110	Evidence of biotic resistance to invasions in forests of the Eastern USA. <i>Landscape Ecology</i> , 2016 , 31, 85-99	4.3	58
109	Applications of the United States Forest Inventory and Analysis dataset: a review and future directions. <i>Canadian Journal of Forest Research</i> , 2018 , 48, 1251-1268	1.9	58
108	Interactions between white-tailed deer density and the composition of forest understories in the northern United States. <i>Forest Ecology and Management</i> , 2017 , 384, 26-33	3.9	57
107	Carbon concentration of standing and downed woody detritus: Effects of tree taxa, decay class, position, and tissue type. <i>Forest Ecology and Management</i> , 2013 , 291, 259-267	3.9	55
106	Consequences of alternative tree-level biomass estimation procedures on U.S. forest carbon stock estimates. <i>Forest Ecology and Management</i> , 2012 , 270, 108-116	3.9	53
105	A Call to Improve Methods for Estimating Tree Biomass for Regional and National Assessments. <i>Journal of Forestry</i> , 2015 , 113, 414-424	1.2	51
104	Woody Debris Volume Depletion Through Decay: Implications for Biomass and Carbon Accounting. <i>Ecosystems</i> , 2013 , 16, 1262-1272	3.9	49
103	The Forest Inventory and Analysis Database Version 4.0: Database Description and Users Manual for Phase 3 2010 ,		48
102	Carbon stocks on forestland of the United States, with emphasis on USDA Forest Service ownership. <i>Ecosphere</i> , 2011 , 2, art6	3.1	47
101	Estimates of Down Woody Materials in Eastern US Forests. <i>Environmental Management</i> , 2004 , 33, S44	3.1	47
100	Estimating dead wood during national forest inventories: a review of inventory methodologies and suggestions for harmonization. <i>Environmental Management</i> , 2009 , 44, 624-31	3.1	46
99	North America's net terrestrial CO ₂ exchange with the atmosphere 1990-2009. <i>Biogeosciences</i> , 2015 , 12, 399-414	4.6	44
98	Relationships between forest fine and coarse woody debris carbon stocks across latitudinal gradients in the United States as an indicator of climate change effects. <i>Ecological Indicators</i> , 2008 , 8, 686-690	5.8	44
97	Coarse woody type: A new method for analyzing coarse woody debris and forest change. <i>Forest Ecology and Management</i> , 2006 , 227, 115-121	3.9	44
96	Climatic regions as an indicator of forest coarse and fine woody debris carbon stocks in the United States. <i>Carbon Balance and Management</i> , 2008 , 3, 5	3.6	42
95	Differences between standing and downed dead tree wood density reduction factors: A comparison across decay classes and tree species 2011 ,		41
94	Carbon emissions associated with the procurement and utilization of forest harvest residues for energy, northern Minnesota, USA. <i>Biomass and Bioenergy</i> , 2012 , 36, 141-150	5.3	40

93	Estimating litter carbon stocks on forest land in the United States. <i>Science of the Total Environment</i> , 2016 , 557-558, 469-78	10.2	39
92	Net carbon flux of dead wood in forests of the Eastern US. <i>Oecologia</i> , 2015 , 177, 861-874	2.9	38
91	Trends over time in tree and seedling phylogenetic diversity indicate regional differences in forest biodiversity change 2012 , 22, 517-31		38
90	Decomposing biodiversity data using the Latent Dirichlet Allocation model, a probabilistic multivariate statistical method. <i>Ecology Letters</i> , 2014 , 17, 1591-601	10	37
89	Estimating uncertainty in the volume and carbon storage of downed coarse woody debris. <i>Ecological Applications</i> , 2019 , 29, e01844	4.9	36
88	Sampling protocol, estimation, and analysis procedures for the down woody materials indicator of the FIA program 2005 ,		35
87	A regeneration indicator for Forest Inventory and Analysis: history, sampling, estimation, analytics, and potential use in the midwest and northeast United States 2015 ,		35
86	Release of coarse woody detritus-related carbon: a synthesis across forest biomes. <i>Carbon Balance and Management</i> , 2020 , 15, 1	3.6	34
85	The downed and dead wood inventory of forests in the United States. <i>Scientific Data</i> , 2019 , 6, 180303	8.2	33
84	Assessing the stability of tree ranges and influence of disturbance in eastern US forests. <i>Forest Ecology and Management</i> , 2013 , 291, 172-180	3.9	32
83	Accounting for density reduction and structural loss in standing dead trees: Implications for forest biomass and carbon stock estimates in the United States. <i>Carbon Balance and Management</i> , 2011 , 6, 14	3.6	31
82	Using Landsat Time-Series and LiDAR to Inform Aboveground Forest Biomass Baselines in Northern Minnesota, USA. <i>Canadian Journal of Remote Sensing</i> , 2017 , 43, 28-47	1.8	30
81	Evaluating Site-Specific and Generic Spatial Models of Aboveground Forest Biomass Based on Landsat Time-Series and LiDAR Strip Samples in the Eastern USA. <i>Remote Sensing</i> , 2017 , 9, 598	5	30
80	Tracking downed dead wood in forests over time: Development of a piece matching algorithm for line intercept sampling. <i>Forest Ecology and Management</i> , 2012 , 277, 196-204	3.9	30
79	Measurement repeatability of a large-scale inventory of forest fuels. <i>Forest Ecology and Management</i> , 2007 , 253, 171-176	3.9	30
78	Climate and species functional traits influence maximum live tree stocking in the Lake States, USA. <i>Forest Ecology and Management</i> , 2017 , 386, 51-61	3.9	27
77	Assessing the potential for urban trees to facilitate forest tree migration in the eastern United States. <i>Forest Ecology and Management</i> , 2010 , 259, 1447-1454	3.9	26
76	Applying survival analysis to a large-scale forest inventory for assessment of tree mortality in Minnesota. <i>Ecological Modelling</i> , 2005 , 189, 199-208	3	26

75	Comparing field- and model-based standing dead tree carbon stock estimates across forests of the US. <i>Forestry</i> , 2012 , 85, 125-133	2.2	25
74	From models to measurements: comparing downed dead wood carbon stock estimates in the U.S. forest inventory. <i>PLoS ONE</i> , 2013 , 8, e59949	3.7	25
73	An empirical assessment of forest floor carbon stock components across the United States. <i>Forest Ecology and Management</i> , 2012 , 269, 1-9	3.9	24
72	Filling the gap: improving estimates of working tree resources in agricultural landscapes. <i>Agroforestry Systems</i> , 2009 , 75, 91-101	2	24
71	Downed woody fuel loading dynamics of a large-scale blowdown in northern Minnesota, U.S.A.. <i>Forest Ecology and Management</i> , 2007 , 247, 194-199	3.9	24
70	Modeling forest biomass and growth: Coupling long-term inventory and LiDAR data. <i>Remote Sensing of Environment</i> , 2016 , 182, 1-12	13.2	24
69	Changes in global terrestrial live biomass over the 21st century. <i>Science Advances</i> , 2021 , 7,	14.3	24
68	Stand density index in uneven-aged ponderosa pine stands. <i>Canadian Journal of Forest Research</i> , 2003 , 33, 96-100	1.9	23
67	Intertree competition in uneven-aged ponderosa pine stands. <i>Canadian Journal of Forest Research</i> , 2003 , 33, 1719-1726	1.9	22
66	Relationships between the stocking levels of live trees and dead tree attributes in forests of the United States. <i>Forest Ecology and Management</i> , 2009 , 258, 2602-2608	3.9	21
65	The relative density of forests in the United States. <i>Forest Ecology and Management</i> , 2006 , 226, 368-372	3.9	20
64	High-dimensional coexistence of temperate tree species: functional traits, demographic rates, life-history stages, and their physical context. <i>PLoS ONE</i> , 2011 , 6, e16253	3.7	19
63	Beyond mean functional traits: Influence of functional trait profiles on forest structure, production, and mortality across the eastern US. <i>Forest Ecology and Management</i> , 2014 , 328, 1-9	3.9	18
62	Delineating managed land for reporting national greenhouse gas emissions and removals to the United Nations framework convention on climate change. <i>Carbon Balance and Management</i> , 2018 , 13, 9	3.6	17
61	When a tree falls: Controls on wood decay predict standing dead tree fall and new risks in changing forests. <i>PLoS ONE</i> , 2018 , 13, e0196712	3.7	17
60	Estimates of downed woody debris decay class transitions for forests across the eastern United States. <i>Ecological Modelling</i> , 2013 , 251, 22-31	3	16
59	Selecting tree species for testing climate change migration hypotheses using forest inventory data. <i>Forest Ecology and Management</i> , 2010 , 259, 778-785	3.9	16
58	Technical Note: Linking climate change and downed woody debris decomposition across forests of the eastern United States. <i>Biogeosciences</i> , 2014 , 11, 6417-6425	4.6	15

57	A technique for conducting point pattern analysis of cluster plot stem-maps. <i>Forest Ecology and Management</i> , 2004 , 198, 31-37	3.9	15
56	Defining and assessing urban forests to inform management and policy. <i>Environmental Research Letters</i> , 2019 , 14, 085002	6.2	14
55	Improved accuracy of aboveground biomass and carbon estimates for live trees in forests of the eastern United States. <i>Forestry</i> , 2017 , 90, 32-46	2.2	14
54	Estimating the quadratic mean diameters of fine woody debris in forests of the United States. <i>Forest Ecology and Management</i> , 2010 , 260, 1088-1093	3.9	14
53	Decadal changes in tree range stability across forests of the eastern U.S.. <i>Forest Ecology and Management</i> , 2018 , 429, 503-510	3.9	12
52	Implications of land-use change on forest carbon stocks in the eastern United States. <i>Environmental Research Letters</i> , 2017 , 12, 024011	6.2	12
51	Forest production dynamics along a wood density spectrum in eastern US forests. <i>Trees - Structure and Function</i> , 2015 , 29, 299-310	2.6	11
50	A statistical power analysis of woody carbon flux from forest inventory data. <i>Climatic Change</i> , 2013 , 118, 919-931	4.5	11
49	Modeling browse impacts on sapling and tree recruitment across forests in the northern United States. <i>Canadian Journal of Forest Research</i> , 2017 , 47, 1474-1481	1.9	11
48	Quantifying allometric model uncertainty for plot-level live tree biomass stocks with a data-driven, hierarchical framework. <i>Forest Ecology and Management</i> , 2016 , 372, 175-188	3.9	11
47	A Tale of Two Forest Carbon Assessments in the Eastern United States: Forest Use Versus Cover as a Metric of Change. <i>Ecosystems</i> , 2016 , 19, 1401-1417	3.9	10
46	Emerging Themes in the Ecology and Management of North American Forests. <i>International Journal of Forestry Research</i> , 2010 , 2010, 1-11	0.7	10
45	Survival analysis for a large-scale forest health issue: Missouri oak decline. <i>Environmental Monitoring and Assessment</i> , 2005 , 108, 295-307	3.1	10
44	Systematic variation in North American tree species abundance distributions along macroecological climatic gradients. <i>Global Ecology and Biogeography</i> , 2019 , 28, 601-611	6.1	9
43	Climate-driven trends in stem wood density of tree species in the eastern United States: Ecological impact and implications for national forest carbon assessments. <i>Global Ecology and Biogeography</i> , 2017 , 26, 1153-1164	6.1	9
42	Forest sector carbon analyses support land management planning and projects: assessing the influence of anthropogenic and natural factors. <i>Climatic Change</i> , 2017 , 144, 207-220	4.5	9
41	Comparisons of allometric and climate-derived estimates of tree coarse root carbon stocks in forests of the United States. <i>Carbon Balance and Management</i> , 2015 , 10, 20	3.6	9
40	End-point diameter and total length coarse woody debris models for the United States. <i>Forest Ecology and Management</i> , 2008 , 255, 3700-3706	3.9	9

39	Burial of downed deadwood is strongly affected by log attributes, forest ground vegetation, edaphic conditions, and climate zones. <i>Canadian Journal of Forest Research</i> , 2016 , 46, 1451-1457	1.9	8
38	Quantifying density-independent mortality of temperate tree species. <i>Ecological Indicators</i> , 2016 , 66, 1-9	5.8	8
37	Strategies to compensate for the effects of nonresponse on forest carbon baseline estimates from the national forest inventory of the United States. <i>Forest Ecology and Management</i> , 2014 , 315, 112-120	3.9	8
36	Performance of the Forest Vegetation Simulator in Managed White Spruce Plantations Influenced by Eastern Spruce Budworm in Northern Minnesota. <i>Forest Science</i> , 2015 , 61, 723-730	1.4	8
35	Comparing evaluations of forest health based on aerial surveys and field inventories: Oak forests in the Northern United States. <i>Ecological Indicators</i> , 2010 , 10, 713-718	5.8	8
34	Contemporary forest carbon dynamics in the northern U.S. associated with land cover changes. <i>Ecological Indicators</i> , 2020 , 110, 105901	5.8	8
33	Using matrix models to estimate aboveground forest biomass dynamics in the eastern USA through various combinations of LiDAR, Landsat, and forest inventory data. <i>Environmental Research Letters</i> , 2018 , 13, 125004	6.2	8
32	Tree basal area and conifer abundance predict soil carbon stocks and concentrations in an actively managed forest of northern New Hampshire, USA. <i>Forest Ecology and Management</i> , 2019 , 451, 117534	3.9	7
31	Quantifying understorey vegetation in the US Lake States: a proposed framework to inform regional forest carbon stocks. <i>Forestry</i> , 2014 , 87, 629-638	2.2	7
30	A framework for assessing global change risks to forest carbon stocks in the United States. <i>PLoS ONE</i> , 2013 , 8, e73222	3.7	7
29	Influence of transect length and downed woody debris abundance on precision of the line-intersect sampling method. <i>Forest Ecosystems</i> , 2018 , 5,	3.8	7
28	Functional form and interactions of the drivers of understory non-native plant invasions in northern US forests. <i>Journal of Applied Ecology</i> , 2019 , 56, 2596-2608	5.8	6
27	North American tree migration paced by climate in the West, lagging in the East.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	6
26	Stand age versus tree diameter as a driver of forest carbon inventory simulations in the northeastern U.S.. <i>Canadian Journal of Forest Research</i> , 2018 , 48, 1135-1147	1.9	5
25	An Inventory of Carbon Storage in Forest Soil and Down Woody Material of the United States. <i>Geophysical Monograph Series</i> , 2009 , 101-116	1.1	5
24	Managing Carbon. <i>Advances in Global Change Research</i> , 2014 , 151-182	1.2	5
23	Strategies for enhancing long-term carbon sequestration in mixed-species, naturally regenerated Northern temperate forests. <i>Carbon Management</i> , 2020 , 11, 381-397	3.3	5
22	Evaluating the influence of spatial resolution of Landsat predictors on the accuracy of biomass models for large-area estimation across the eastern USA. <i>Environmental Research Letters</i> , 2018 , 13, 055004	6.2	5

21	Increasing Atmospheric CO2 Concentration Stand Development in Trembling Aspen Forests: Are Outdated Density Management Guidelines in Need of Revision for All Species?. <i>Journal of Forestry</i> , 2019 , 117, 38-45	1.2	4
20	Comparing tree foliage biomass models fitted to a multispecies, felled-tree biomass dataset for the United States. <i>Ecological Modelling</i> , 2016 , 333, 79-91	3	4
19	Land Use Changes, Disturbances, and Their Interactions on Future Forest Aboveground Biomass Dynamics in the Northern US. <i>Forests</i> , 2019 , 10, 606	2.8	4
18	Estimation of Merchantable Bole Volume and Biomass above Sawlog Top in the National Forest Inventory of the United States. <i>Journal of Forestry</i> , 2013 , 111, 383-387	1.2	4
17	Controlling coarse woody debris inventory quality: taper and relative size methods. <i>Canadian Journal of Forest Research</i> , 2008 , 38, 631-636	1.9	4
16	Reaching a forest land per capita milestone in the United States. <i>The Environmentalist</i> , 2008 , 28, 315-317		4
15	Evaluation of techniques for determining the density of fine woody debris 2010 ,		4
14	Minnesota Forests 2013		3
13	Refined forest land use classification with implications for United States national carbon accounting. <i>Land Use Policy</i> , 2016 , 59, 536-542	5.6	3
12	Real-time monitoring of deadwood moisture in forests: lessons learned from an intensive case study. <i>Canadian Journal of Forest Research</i> , 2020 , 50, 1244-1252	1.9	2
11	New Hampshire Forests 2017		2
10	Ecological memory and regional context influence performance of adaptation plantings in northeastern US temperate forests. <i>Journal of Applied Ecology</i> , 2022 , 59, 314	5.8	2
9	Similar tree species richness-productivity response but differing effects on carbon stocks and timber production in eastern US and continental Spain. <i>Science of the Total Environment</i> , 2021 , 793, 148399	10.2	2
8	Development of a Downed Woody Debris Forecasting Tool Using Strategic-Scale Multiresource Forest Inventories. <i>Journal of Forestry</i> , 2017 , 115, 276-282	1.2	1
7	Assessing the effect of snow/water obstructions on the measurement of tree seedlings in a large-scale temperate forest inventory. <i>Forestry</i> , 2013 , 86, 421-427	2.2	1
6	Effects of tree size and spatial distribution on growth of ponderosa pine forests under alternative management scenarios. <i>The Environmentalist</i> , 2009 , 29, 301-309		1
5	Contribution of Dead Wood to Biomass and Carbon Stocks in the Caribbean: St. John, U.S. Virgin Islands. <i>Biotropica</i> , 2007 , 40, 070806195655002-???	2.3	1
4	Predicting downed woody material carbon stocks in forests of the conterminous United States. <i>Science of the Total Environment</i> , 2022 , 803, 150061	10.2	0

- 3 Making the US national forest inventory spatially contiguous and temporally consistent.
Environmental Research Letters, **2022**, 17, 065002 6.2 o
- 2 Adaptive silviculture for climate change network **2020**, 112
- 1 Shifting Forests and Carbon: Linking Community Composition and Aboveground Carbon Attributes.
Ecosystems, 1 3.9