Christopher W Woodall

List of Publications by Year
in descending order

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121 papers	6,039 citations	87843 38 h-index	95218 68 g-index
143 all docs	143 docs citations	143 times ranked	6220 citing authors

#	Article	IF	Citations
1	Shifting Forests and Carbon: Linking Community Composition and Aboveground Carbon Attributes. Ecosystems, 2023, 26, 412-427.	1.6	1
2	Predicting downed woody material carbon stocks in forests of the conterminous United States. Science of the Total Environment, 2022, 803, 150061.	3.9	5
3	Ecological memory and regional context influence performance of adaptation plantings in northeastern US temperate forests. Journal of Applied Ecology, 2022, 59, 314-329.	1.9	12
4	North American tree migration paced by climate in the West, lagging in the East. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	27
5	Does deadwood moisture vary jointly with surface soil water content?. Soil Science Society of America Journal, 2022, 86, 1113-1121.	1.2	5
6	Carbon conundrums: Do United States' current carbon market baselines represent an undesirable ecological threshold?. Global Change Biology, 2022, 28, 3991-3994.	4.2	5
7	Making the US national forest inventory spatially contiguous and temporally consistent. Environmental Research Letters, 2022, 17, 065002.	2.2	8
8	Changes in global terrestrial live biomass over the 21st century. Science Advances, 2021, 7, eabe9829.	4.7	136
9	Decadal dead wood biomass dynamics of coterminous US forests. Environmental Research Letters, 2021, 16, 104034.	2.2	5
10	Similar tree species richness-productivity response but differing effects on carbon stocks and timber production in eastern US and continental Spain. Science of the Total Environment, 2021, 793, 148399.	3.9	5
11	Niche Shifts From Trees to Fecundity to Recruitment That Determine Species Response to Climate Change. Frontiers in Ecology and Evolution, 2021, 9, .	1.1	14
12	Contemporary forest carbon dynamics in the northern U.S. associated with land cover changes. Ecological Indicators, 2020, 110, 105901.	2.6	14
13	Strategies for enhancing long-term carbon sequestration in mixed-species, naturally regenerated Northern temperate forests. Carbon Management, 2020, 11, 381-397.	1.2	15
14	Real-time monitoring of deadwood moisture in forests: lessons learned from an intensive case study. Canadian Journal of Forest Research, 2020, 50, 1244-1252.	0.8	7
15	Release of coarse woody detritus-related carbon: a synthesis across forest biomes. Carbon Balance and Management, 2020, 15, 1.	1.4	93
16	Land Use Changes, Disturbances, and Their Interactions on Future Forest Aboveground Biomass Dynamics in the Northern US. Forests, 2019, 10, 606.	0.9	4
17	Functional form and interactions of the drivers of understory nonâ€native plant invasions in northern US forests. Journal of Applied Ecology, 2019, 56, 2596-2608.	1.9	12
18	Tree basal area and conifer abundance predict soil carbon stocks and concentrations in an actively managed forest of northern New Hampshire, USA. Forest Ecology and Management, 2019, 451, 117534.	1.4	14

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19	Systematic variation in North American tree species abundance distributions along macroecological climatic gradients. Global Ecology and Biogeography, 2019, 28, 601-611.	2.7	10
20	Defining and assessing urban forests to inform management and policy. Environmental Research Letters, 2019, 14, 085002.	2.2	28
21	Increasing Atmospheric CO2 Concentration Stand Development in Trembling Aspen Forests: Are Outdated Density Management Guidelines in Need of Revision for All Species?. Journal of Forestry, 2019, 117, 38-45.	0.5	6
22	Estimating uncertainty in the volume and carbon storage of downed coarse woody debris. Ecological Applications, 2019, 29, e01844.	1.8	51
23	The downed and dead wood inventory of forests in the United States. Scientific Data, 2019, 6, 180303.	2.4	49
24	Using matrix models to estimate aboveground forest biomass dynamics in the eastern USA through various combinations of LiDAR, Landsat, and forest inventory data. Environmental Research Letters, 2018, 13, 125004.	2.2	12
25	Evaluating the influence of spatial resolution of Landsat predictors on the accuracy of biomass models for large-area estimation across the eastern USA. Environmental Research Letters, 2018, 13, 055004.	2.2	7
26	Influence of transect length and downed woody debris abundance on precision of the line-intersect sampling method. Forest Ecosystems, 2018, 5, .	1.3	10
27	Applications of the United States Forest Inventory and Analysis dataset: a review and future directions. Canadian Journal of Forest Research, 2018, 48, 1251-1268.	0.8	92
28	When a tree falls: Controls on wood decay predict standing dead tree fall and new risks in changing forests. PLoS ONE, 2018, 13, e0196712.	1.1	33
29	Delineating managed land for reporting national greenhouse gas emissions and removals to the United Nations framework convention on climate change. Carbon Balance and Management, 2018, 13, 9.	1.4	37
30	Stand age versus tree diameter as a driver of forest carbon inventory simulations in the northeastern U.S.. Canadian Journal of Forest Research, 2018, 48, 1135-1147.	0.8	6
31	Decadal changes in tree range stability across forests of the eastern U.S.. Forest Ecology and Management, 2018, 429, 503-510.	1.4	18
32	Climate and species functional traits influence maximum live tree stocking in the Lake States, USA. Forest Ecology and Management, 2017, 386, 51-61.	1.4	33
33	Interactions between white-tailed deer density and the composition of forest understories in the northern United States. Forest Ecology and Management, 2017, 384, 26-33.	1.4	87
34	Climateâ€driven trends in stem wood density of tree species in the eastern United States: Ecological impact and implications for national forest carbon assessments. Global Ecology and Biogeography, 2017, 26, 1153-1164.	2.7	20
35	Forest sector carbon analyses support land management planning and projects: assessing the influence of anthropogenic and natural factors. Climatic Change, 2017, 144, 207-220.	1.7	14
36	Modeling browse impacts on sapling and tree recruitment across forests in the northern United States. Canadian Journal of Forest Research, 2017, 47, 1474-1481.	0.8	17

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37	Using Landsat Time-Series and LiDAR to Inform Aboveground Forest Biomass Baselines in Northern Minnesota, USA. Canadian Journal of Remote Sensing, 2017, 43, 28-47.	1.1	36
38	Improved accuracy of aboveground biomass and carbon estimates for live trees in forests of the eastern United States. Forestry, 2017, 90, 32-46.	1.2	21
39	Development of a Downed Woody Debris Forecasting Tool Using Strategic-Scale Multiresource Forest Inventories. Journal of Forestry, 2017, 115, 276-282.	0.5	2
40	Implications of land-use change on forest carbon stocks in the eastern United States. Environmental Research Letters, 2017, 12, 024011.	2.2	19
41	Evaluating Site-Specific and Generic Spatial Models of Aboveground Forest Biomass Based on Landsat Time-Series and LiDAR Strip Samples in the Eastern USA. Remote Sensing, 2017, 9, 598.	1.8	37
42	The impacts of increasing drought on forest dynamics, structure, and biodiversity in the United States. Global Change Biology, 2016, 22, 2329-2352.	4.2	428
43	Quantifying allometric model uncertainty for plot-level live tree biomass stocks with a data-driven, hierarchical framework. Forest Ecology and Management, 2016, 372, 175-188.	1.4	17
44	Estimating litter carbon stocks on forest land in the United States. Science of the Total Environment, 2016, 557-558, 469-478.	3.9	55
45	Modeling forest biomass and growth: Coupling long-term inventory and LiDAR data. Remote Sensing of Environment, 2016, 182, 1-12.	4.6	36
46	Refined forest land use classification with implications for United States national carbon accounting. Land Use Policy, 2016, 59, 536-542.	2.5	3
47	A Tale of Two Forest Carbon Assessments in the Eastern United States: Forest Use Versus Cover as a Metric of Change. Ecosystems, 2016, 19, 1401-1417.	1.6	11
48	Burial of downed deadwood is strongly affected by log attributes, forest ground vegetation, edaphic conditions, and climate zones. Canadian Journal of Forest Research, 2016, 46, 1451-1457.	0.8	9
49	Comparing tree foliage biomass models fitted to a multispecies, felled-tree biomass dataset for the United States. Ecological Modelling, 2016, 333, 79-91.	1.2	5
50	Evidence of biotic resistance to invasions in forests of the Eastern USA. Landscape Ecology, 2016, 31, 85-99.	1.9	65
51	Quantifying density-independent mortality of temperate tree species. Ecological Indicators, 2016, 66, 1-9.	2.6	12
52	A Call to Improve Methods for Estimating Tree Biomass for Regional and National Assessments. Journal of Forestry, 2015, 113, 414-424.	0.5	72
53	Comparisons of allometric and climate-derived estimates of tree coarse root carbon stocks in forests of the United States. Carbon Balance and Management, 2015, 10, 20.	1.4	12
54	Performance of the Forest Vegetation Simulator in Managed White Spruce Plantations Influenced by Eastern Spruce Budworm in Northern Minnesota. Forest Science, 2015, 61, 723-730.	0.5	11

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55	North America's net terrestrial CO₂ exchange with the atmosphere 1990â€“2009. Biogeosciences, 2015, 12, 399-414.	1.3	54
56	Net carbon flux of dead wood in forests of the Eastern US. Oecologia, 2015, 177, 861-874.	0.9	41
57	Forest production dynamics along a wood density spectrum in eastern US forests. Trees - Structure and Function, 2015, 29, 299-310.	0.9	13
58	Prevalence and strength of densityâ€dependent tree recruitment. Ecology, 2015, 96, 2319-2327.	1.5	85
59	Quantifying carbon stores and decomposition in dead wood: A review. Forest Ecology and Management, 2015, 350, 107-128.	1.4	190
60	Technical Note: Linking climate change and downed woody debris decomposition across forests of the eastern United States. Biogeosciences, 2014, 11, 6417-6425.	1.3	23
61	Quantifying understorey vegetation in the US Lake States: a proposed framework to inform regional forest carbon stocks. Forestry, 2014, 87, 629-638.	1.2	10
62	More than the sum of the parts: forest climate response from joint species distribution models. Ecological Applications, 2014, 24, 990-999.	1.8	189
63	Residence Times and Decay Rates of Downed Woody Debris Biomass/Carbon in Eastern US Forests. Ecosystems, 2014, 17, 765-777.	1.6	126
64	Does biodiversity make a difference? Relationships between species richness, evolutionary diversity, and aboveground live tree biomass across U.S. forests. Forest Ecology and Management, 2014, 321, 117-129.	1.4	98
65	Decomposing biodiversity data using the Latent Dirichlet Allocation model, a probabilistic multivariate statistical method. Ecology Letters, 2014, 17, 1591-1601.	3.0	50
66	Dual impacts of climate change: forest migration and turnover through life history. Global Change Biology, 2014, 20, 251-264.	4.2	92
67	Strategies to compensate for the effects of nonresponse on forest carbon baseline estimates from the national forest inventory of the United States. Forest Ecology and Management, 2014, 315, 112-120.	1.4	16
68	Beyond mean functional traits: Influence of functional trait profiles on forest structure, production, and mortality across the eastern US. Forest Ecology and Management, 2014, 328, 1-9.	1.4	19
69	Managing Carbon. Advances in Global Change Research, 2014, , 151-182.	1.6	7
70	Imputing forest carbon stock estimates from inventory plots to a nationally continuous coverage. Carbon Balance and Management, 2013, 8, 1.	1.4	130
71	Estimates of downed woody debris decay class transitions for forests across the eastern United States. Ecological Modelling, 2013, 251, 22-31.	1.2	22
72	A statistical power analysis of woody carbon flux from forest inventory data. Climatic Change, 2013, 118, 919-931.	1.7	14

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73	Assessing the stability of tree ranges and influence of disturbance in eastern US forests. Forest Ecology and Management, 2013, 291, 172-180.	1.4	42
74	Biomass and carbon attributes of downed woody materials in forests of the United States. Forest Ecology and Management, 2013, 305, 48-59.	1.4	85
75	Carbon concentration of standing and downed woody detritus: Effects of tree taxa, decay class, position, and tissue type. Forest Ecology and Management, 2013, 291, 259-267.	1.4	84
76	Woody Debris Volume Depletion Through Decay: Implications for Biomass and Carbon Accounting. Ecosystems, 2013, 16, 1262-1272.	1.6	66
77	Assessing the effect of snow/water obstructions on the measurement of tree seedlings in a large-scale temperate forest inventory. Forestry, 2013, 86, 421-427.	1.2	2
78	Estimation of Merchantable Bole Volume and Biomass above Sawlog Top in the National Forest Inventory of the United States. Journal of Forestry, 2013, 111, 383-387.	0.5	7
79	From Models to Measurements: Comparing Downed Dead Wood Carbon Stock Estimates in the U.S. Forest Inventory. PLoS ONE, 2013, 8, e59949.	1.1	30
80	A Framework for Assessing Global Change Risks to Forest Carbon Stocks in the United States. PLoS ONE, 2013, 8, e73222.	1.1	8
81	Comparing field- and model-based standing dead tree carbon stock estimates across forests of the US. Forestry, 2012, 85, 125-133.	1.2	31
82	Trends over time in tree and seedling phylogenetic diversity indicate regional differences in forest biodiversity change. , 2012, 22, 517-531.		42
83	An empirical assessment of forest floor carbon stock components across the United States. Forest Ecology and Management, 2012, 269, 1-9.	1.4	25
84	Consequences of alternative tree-level biomass estimation procedures on U.S. forest carbon stock estimates. Forest Ecology and Management, 2012, 270, 108-116.	1.4	64
85	Tracking downed dead wood in forests over time: Development of a piece matching algorithm for line intercept sampling. Forest Ecology and Management, 2012, 277, 196-204.	1.4	32
86	Failure to migrate: lack of tree range expansion in response to climate change. Global Change Biology, 2012, 18, 1042-1052.	4.2	519
87	Carbon emissions associated with the procurement and utilization of forest harvest residues for energy, northern Minnesota, USA. Biomass and Bioenergy, 2012, 36, 141-150.	2.9	40
88	Carbon stocks on forestland of the United States, with emphasis on USDA Forest Service ownership. Ecosphere, 2011, 2, art6.	1.0	52
89	Accounting for density reduction and structural loss in standing dead trees: Implications for forest biomass and carbon stock estimates in the United States. Carbon Balance and Management, 2011, 6, 14.	1.4	42
90	Status and future of the forest health indicators program of the USA. Environmental Monitoring and Assessment, 2011, 177, 419-436.	1.3	80

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91	High-Dimensional Coexistence of Temperate Tree Species: Functional Traits, Demographic Rates, Life-History Stages, and Their Physical Context. PLoS ONE, 2011, 6, e16253.	1.1	19
92	Emerging Themes in the Ecology and Management of North American Forests. International Journal of Forestry Research, 2010, 2010, 1-11.	0.2	15
93	Forest carbon storage: ecology, management, and policy. Frontiers in Ecology and the Environment, 2010, 8, 245-252.	1.9	237
94	Selecting tree species for testing climate change migration hypotheses using forest inventory data. Forest Ecology and Management, 2010, 259, 778-785.	1.4	21
95	Assessing the potential for urban trees to facilitate forest tree migration in the eastern United States. Forest Ecology and Management, 2010, 259, 1447-1454.	1.4	33
96	Comparing evaluations of forest health based on aerial surveys and field inventories: Oak forests in the Northern United States. Ecological Indicators, 2010, 10, 713-718.	2.6	10
97	Estimating the quadratic mean diameters of fine woody debris in forests of the United States. Forest Ecology and Management, 2010, 260, 1088-1093.	1.4	17
98	Filling the gap: improving estimates of working tree resources in agricultural landscapes. Agroforestry Systems, 2009, 75, 91-101.	0.9	28
99	Effects of tree size and spatial distribution on growth of ponderosa pine forests under alternative management scenarios. The Environmentalist, 2009, 29, 301-309.	0.7	2
100	Estimating Dead Wood During National Forest Inventories: A Review of Inventory Methodologies and Suggestions for Harmonization. Environmental Management, 2009, 44, 624-631.	1.2	64
101	An indicator of tree migration in forests of the eastern United States. Forest Ecology and Management, 2009, 257, 1434-1444.	1.4	194
102	Relationships between the stocking levels of live trees and dead tree attributes in forests of the United States. Forest Ecology and Management, 2009, 258, 2602-2608.	1.4	27
103	An inventory of carbon storage in forest soil and down woody material of the United States. Geophysical Monograph Series, 2009, , 101-116.	0.1	5
104	Reaching a forest land per capita milestone in the United States. The Environmentalist, 2008, 28, 315-317.	0.7	4
105	Climatic regions as an indicator of forest coarse and fine woody debris carbon stocks in the United States. Carbon Balance and Management, 2008, 3, 5.	1.4	54
106	Relationships between forest fine and coarse woody debris carbon stocks across latitudinal gradients in the United States as an indicator of climate change effects. Ecological Indicators, 2008, 8, 686-690.	2.6	46
107	End-point diameter and total length coarse woody debris models for the United States. Forest Ecology and Management, 2008, 255, 3700-3706.	1.4	11
108	National inventories of down and dead woody material forest carbon stocks in the United States: Challenges and opportunities. Forest Ecology and Management, 2008, 256, 221-228.	1.4	81

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109	Controlling coarse woody debris inventory quality: taper and relative size methods. Canadian Journal of Forest Research, 2008, 38, 631-636.	0.8	7
110	Downed woody fuel loading dynamics of a large-scale blowdown in northern Minnesota, U.S.A.. Forest Ecology and Management, 2007, 247, 194-199.	1.4	31
111	Measurement repeatability of a large-scale inventory of forest fuels. Forest Ecology and Management, 2007, 253, 171-176.	1.4	38
112	Contribution of Dead Wood to Biomass and Carbon Stocks in the Caribbean: St. John, U.S. Virgin Islands. Biotropica, 2007, 40, 070806195655002-???.	0.8	5
113	The relative density of forests in the United States. Forest Ecology and Management, 2006, 226, 368-372.	1.4	31
114	Coarse woody type: A new method for analyzing coarse woody debris and forest change. Forest Ecology and Management, 2006, 227, 115-121.	1.4	46
115	Applying survival analysis to a large-scale forest inventory for assessment of tree mortality in Minnesota. Ecological Modelling, 2005, 189, 199-208.	1.2	35
116	Survival Analysis for a Large-Scale Forest Health Issue: Missouri Oak Decline. Environmental Monitoring and Assessment, 2005, 108, 295-307.	1.3	13
117	Determining maximum stand density index in mixed species stands for strategic-scale stocking assessments. Forest Ecology and Management, 2005, 216, 367-377.	1.4	123
118	Estimates of Down Woody Materials in Eastern US Forests. Environmental Management, 2004, 33, S44.	1.2	51
119	A technique for conducting point pattern analysis of cluster plot stem-maps. Forest Ecology and Management, 2004, 198, 31-37.	1.4	17
120	Intertree competition in uneven-aged ponderosa pine stands. Canadian Journal of Forest Research, 2003, 33, 1719-1726.	0.8	25
121	Stand density index in uneven-aged ponderosa pine stands. Canadian Journal of Forest Research, 2003, 33, 96-100.	0.8	28