Quantifying carbon stores and decomposition in dead w

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Citation Report

#	Article	IF	Citations
1	Decay patterns and carbon density of standing dead trees in California mixed conifer forests. Forest Ecology and Management, 2015, 353, 136-147.	1.4	21
2	Time since death and decay rate constants of Norway spruce and European larch deadwood in subalpine forests determined using dendrochronology and radiocarbon dating. Biogeosciences, 2016, 13, 1537-1552.	1.3	34
3	Wood decay in desert riverine environments. Forest Ecology and Management, 2016, 365, 83-95.	1.4	17
4	Soil attributes and microclimate are important drivers of initial deadwood decay in sub-alpine Norway spruce forests. Science of the Total Environment, 2016, 569-570, 1064-1076.	3.9	32
5	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
6	The decomposition rate of non-stem components of coarse woody debris (CWD) in European boreal forests mainly depends on site moisture and tree species. European Journal of Forest Research, 2016, 135, 593-606.	1.1	35
7	Tamm Review: Sequestration of carbon from coarse woody debris in forest soils. Forest Ecology and Management, 2016, 377, 1-15.	1.4	101
8	Direct estimates of downslope deadwood movement over 30 years in a temperature forest illustrate impacts of treefall on forest ecosystem dynamics. Canadian Journal of Forest Research, 2016, 46, 351-361.	0.8	7
9	Coarse woody debris and the carbon balance of a moderately disturbed forest. Forest Ecology and Management, 2016, 361, 38-45.	1.4	21
10	Carbon concentration declines with decay class in tropical forest woody debris. Forest Ecology and Management, 2017, 391, 75-85.	1.4	16
11	Altitudinal, seasonal and interannual shifts in microbial communities and chemical composition of soil organic matter in Alpine forest soils. Soil Biology and Biochemistry, 2017, 112, 1-13.	4.2	76
12	Decomposition rates of coarse woody debris in undisturbed Amazonian seasonally flooded and unflooded forests in the Rio Negro-Rio Branco Basin in Roraima, Brazil. Forest Ecology and Management, 2017, 397, 1-9.	1.4	17
13	Floodplain downed wood volumes: a comparison across three biomes. Earth Surface Processes and Landforms, 2017, 42, 1248-1261.	1.2	57
14	Constraining the organic matter decay parameters in the CBM-CFS3 using Canadian National Forest Inventory data and a Bayesian inversion technique. Ecological Modelling, 2017, 364, 1-12.	1.2	21
15	Wood pellets, what else? Greenhouse gas parity times of European electricity from wood pellets produced in the southâ€eastern United States using different softwood feedstocks. GCB Bioenergy, 2017, 9, 1406-1422.	2.5	33
16	Dendroecological Applications to Coarse Woody Debris Dynamics. Ecological Studies, 2017, , 159-181.	0.4	3
17	Toward a methodical framework for comprehensively assessing forest multifunctionality. Ecology and Evolution, 2017, 7, 10652-10674.	0.8	41
18	Changes in mass, carbon, nitrogen, and phosphorus in logs decomposing for 30 years in three Rocky Mountain coniferous forests. Canadian Journal of Forest Research, 2017, 47, 1418-1423.	0.8	6

#	Article	IF	Citations
19	Linking microbial community composition to C loss rates during wood decomposition. Soil Biology and Biochemistry, 2017, 104, 108-116.	4.2	64
20	Stocks and dynamics of soil organic carbon and coarse woody debris in three managed and unmanaged temperate forests. European Journal of Forest Research, 2017, 136, 123-137.	1.1	21
21	Development of a Downed Woody Debris Forecasting Tool Using Strategic-Scale Multiresource Forest Inventories. Journal of Forestry, 2017, 115, 276-282.	0.5	2
22	Patterns of Coarse Woody Debris in Hardwood Forests across a Chronosequence of Ash Mortality Due to the Emerald Ash Borer (Agrilus planipennis). Natural Areas Journal, 2017, 37, 406-411.	0.2	10
23	Deadwood Decay in a Burnt Mediterranean Pine Reforestation. Forests, 2017, 8, 158.	0.9	8
24	Carbon and Nitrogen Accumulation and Decomposition from Coarse Woody Debris in a Naturally Regenerated Korean Red Pine (Pinus densiflora S. et Z.) Forest. Forests, 2017, 8, 214.	0.9	14
25	The role of microbial community in the decomposition of leaf litter and deadwood. Applied Soil Ecology, 2018, 126, 75-84.	2.1	230
26	Detecting and quantifying standing dead tree structural loss with reconstructed tree models using voxelized terrestrial lidar data. Remote Sensing of Environment, 2018, 209, 52-65.	4.6	14
27	Coupled effect of temperature and mineral additions facilitates decay of aspen bark. Geoderma, 2018, 316, 27-37.	2.3	10
28	Woody material structural degradation through decomposition on the forest floor. Canadian Journal of Forest Research, 2018, 48, 111-115.	0.8	5
29	Modelling the management of forest ecosystems: Importance of wood decomposition. Natural Resource Modelling, 2018, 31, .	0.8	5
30	The cover uncovered: Bark control over wood decomposition. Journal of Ecology, 2018, 106, 2147-2160.	1.9	45
31	Carbon forestry is surprising. Forest Ecosystems, 2018, 5, .	1.3	43
32	What does â€˜lignoformâ€™ really mean?. Applied Soil Ecology, 2018, 123, 632-645.	2.1	11
33	Using measured stocks of biomass and litter carbon to constrain modelled estimates of sequestration of soil organic carbon under contrasting mixed-species environmental plantings. Science of the Total Environment, 2018, 615, 348-359.	3.9	12
34	Quantifying decay progression of deadwood in Mediterranean mountain forests. Forest Ecology and Management, 2018, 408, 228-237.	1.4	22
35	Influence of transect length and downed woody debris abundance on precision of the line-intersect sampling method. Forest Ecosystems, 2018, 5, .	1.3	10
36	Decadal-Scale Reduction in Forest Net Ecosystem Production Following Insect Defoliation Contrasts with Short-Term Impacts of Prescribed Fires. Forests, 2018, 9, 145.	0.9	24

#	Article	IF	Citations
37	Carbon Pools in a Hemiboreal Over-Mature Norway Spruce Stands. Forests, 2018, 9, 435.	0.9	11
38	Airborne and Terrestrial Laser Scanning Data for the Assessment of Standing and Lying Deadwood: Current Situation and New Perspectives. Remote Sensing, 2018, 10, 1356.	1.8	38
39	Spatial and temporal changes in ecosystem carbon pools following juniper encroachment and removal. Biogeochemistry, 2018, 140, 373-388.	1.7	13
40	The conic-paraboloid formulae for coarse woody material volume and taper and their approximation. Canadian Journal of Forest Research, 2018, 48, 966-975.	0.8	2
41	Automated Estimation of Standing Dead Tree Volume Using Voxelized Terrestrial Lidar Data. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6484-6503.	2.7	13
42	Carbon storage dynamics of temperate freshwater wetlands in Pennsylvania. Wetlands Ecology and Management, 2018, 26, 893-914.	0.7	14
43	Different twig litter (Salix caprea) diameter does affect microbial community activity and composition but not decay rate. FEMS Microbiology Ecology, 2018, 94, .	1.3	11
44	How the deadwood of different tree species in various stages of decomposition affected nutrient dynamics?. Journal of Soils and Sediments, 2018, 18, 2759-2769.	1.5	26
45	Dynamics of detrital carbon pools following harvesting of a humid eastern Canadian balsam fir boreal forest. Forest Ecology and Management, 2018, 430, 33-42.	1.4	21
46	Tree species richness increases ecosystem carbon storage in subtropical forests. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20181240.	1.2	169
47	Turning an invasive hardwood into an asset: Inoculating Ligustrum lucidum logs with a medicinal mushroom, Trametes versicolor, accelerates wood decomposition under field conditions. Invasive Plant Science and Management, 2019, 12, 142-149.	0.5	1
48	Response of bark beetles and woodborers to tornado damage and subsequent salvage logging in northern coniferous forests of Maine, USA. Forest Ecology and Management, 2019, 450, 117489.	1.4	15
49	Wood density and carbon concentration of coarse woody debris in native forests, Brazil. Forest Ecosystems, 2019, 6, .	1.3	8
50	Evaluation of the Plant Necromass Component: Methodological Approaches and Estimates in Atlantic Forest, Northeast Brazil. Floresta E Ambiente, 2019, 26, .	0.1	3
51	Necromass Carbon Stock in a Secondary Atlantic Forest Fragment in Brazil. Forests, 2019, 10, 833.	0.9	5
52	Comparison of measured and modelled change in coarse woody debris carbon stocks in New Zealandâ€™s natural forest. Forest Ecology and Management, 2019, 434, 18-28.	1.4	8
53	Pollution-induced slowdown of coarse woody debris decomposition differs between two coniferous tree species. Forest Ecology and Management, 2019, 448, 312-320.	1.4	5
54	Phytomass and Organic Carbon Stocks in the Middle Taiga Spruce Forests during Restoration after Clear Cutting. Biology Bulletin, 2019, 46, 210-218.	0.1	3

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55	Detecting and characterizing downed dead wood using terrestrial laser scanning. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 151, 76-90.	4.9	24
56	Diversity and deadwood-based interaction networks of saproxylic beetles in remnants of riparian cloud forest. PLoS ONE, 2019, 14, e0214920.	1.1	9
57	Decay rates of above- and below-ground coarse woody debris of common tree species in New Zealandâ€™s natural forest. Forest Ecology and Management, 2019, 438, 96-102.	1.4	6
58	Effects of Bark Beetle Disturbance on Soil Nutrient Retention and Lake Chemistry in Glacial Catchment. Ecosystems, 2019, 22, 725-741.	1.6	20
59	Dissolved carbon and nitrogen release from deadwood of different tree species in various stages of decomposition. Soil Science and Plant Nutrition, 2019, 65, 100-107.	0.8	17
60	The carbon balance of a six-year-old Scots pine (Pinus sylvestris L.) ecosystem estimated by different methods. Forest Ecology and Management, 2019, 433, 248-262.	1.4	20
61	Temperature responses of carbon dioxide fluxes from coarse dead wood in a black ash wetland. Wetlands Ecology and Management, 2019, 27, 157-170.	0.7	4
62	Assessing Coarse Woody Debris Nutrient Dynamics in Managed Northern Hardwood Forests Using a Matrix Transition Model. Ecosystems, 2020, 23, 541-554.	1.6	9
63	Seasonal Changes of Soil Organic Carbon and Microbial Biomass Carbon in Different Forest Ecosystems. , 0, , .		13
65	Modeling of Dead Wood Potential Based on Tree Stand Data. Forests, 2020, 11, 913.	0.9	7
66	Mapping carbon accumulation potential from global natural forest regrowth. Nature, 2020, 585, 545-550.	13.7	278
67	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
69	Recovery and allocation of carbon stocks in boreal forests 64Âyears after catastrophic windthrow and salvage logging in northern Japan. Forest Ecology and Management, 2020, 468, 118169.	1.4	13
70	Traits mediate drought effects on wood carbon fluxes. Global Change Biology, 2020, 26, 3429-3442.	4.2	15
71	Improving understanding of carbon stock characteristics of Eucalyptus and Acacia trees in southern China through litter layer and woody debris. Scientific Reports, 2020, 10, 4735.	1.6	8
72	Allometry and structural volume change of standing dead southern pine trees using non-destructive terrestrial LiDAR. Remote Sensing of Environment, 2020, 241, 111729.	4.6	7
73	Effect of Organic Matter Released from Deadwood at Different Decomposition Stages on Physical Properties of Forest Soil. Forests, 2020, 11, 24.	0.9	25
74	Fungal communities in decomposing wood along an energy wood harvest gradient. Forest Ecology and Management, 2020, 465, 118070.	1.4	8

#	Article	IF	Citations
75	Carbon Stock in Deadwood: The Mountain Birch (Betula pubescens subsp. czerepanovii) Forests in the Khibiny Mountains (Russia). Journal of Sustainable Forestry, 2021, 40, 385-400.	0.6	7
76	Decomposition of black pine (Pinus nigra J. F. Arnold) deadwood and its impact on forest soil components. Science of the Total Environment, 2021, 754, 142039.	3.9	14
78	Carbon fractions in the worldâ€™s dead wood. Nature Communications, 2021, 12, 889.	5.8	52
79	Nutrient Dynamics Assessment of Coarse Wood Debris Subjected to Successional Decay Levels of Three Forests Types in Northeast, China. Forests, 2021, 12, 401.	0.9	4
80	Decay classes of coarse woody debris in a lowland Dipterocarp forest: implications for volume, density, and carbon estimates. Biotropica, 2021, 53, 879-887.	0.8	3
81	Soil amendment improves carbon sequestration by trees on severely damaged acid and metal impacted landscape, but total storage remains low. Forest Ecology and Management, 2021, 483, 118896.	1.4	8
82	Sapwood and heartwood affect differentially bacterial and fungal community structure and successional dynamics during <scp>Quercus petraea</scp> decomposition. Environmental Microbiology, 2021, 23, 6177-6193.	1.8	9
83	Ageing forests and carbon storage: a case study in boreal balsam fir stands. Forestry, 2021, 94, 651-663.	1.2	6
84	Fine Wood Decomposition Rates Decline with the Age of Tropical Successional Forests in Southern Mexico: Implications to Ecosystem Carbon Storage. Ecosystems, 2022, 25, 661-677.	1.6	8
85	Changes in plant debris and carbon stocks across a subalpine forest successional series. Forest Ecosystems, 2021, 8, .	1.3	7
86	Substrate quality regulates density loss, cellulose degradation and nitrogen dynamics in downed woody debris in a boreal forest. Forest Ecology and Management, 2021, 491, 119143.	1.4	11
87	Linking deadwood and soil GHG fluxes in a second growth north temperate deciduous forest (Upper) Tj ETQq1 1 0.784314 rgBT /Ove	1.7	0
89	Predicting downed woody material carbon stocks in forests of the conterminous United States. Science of the Total Environment, 2022, 803, 150061.	3.9	5
90	How habitat moisture condition affects the decomposition of fine woody debris from different species. Catena, 2022, 208, 105765.	2.2	10
91	Evaluating floodplain organic carbon across a gradient of human alteration in the boreal zone. Geomorphology, 2020, 370, 107390.	1.1	5
92	The downed and dead wood inventory of forests in the United States. Scientific Data, 2019, 6, 180303.	2.4	49
93	Dynamics of dead wood decay in Swiss forests. Forest Ecosystems, 2020, 7, .	1.3	38
94	Quantifying and Mapping the Supply of and Demand for Carbon Storage and Sequestration Service from Urban Trees. PLoS ONE, 2015, 10, e0136392.	1.1	37

#	Article	IF	Citations
96	Linking deadwood traits with saproxylic invertebrates and fungi in European forests - a review. IForest, 2018, 11, 423-436.	0.5	64
97	Impact of Stand and Landscape Management on Forest Pest Damage. Annual Review of Entomology, 2022, 67, 181-199.	5.7	21
98	Living, dead, and absent treesâ€"How do moth outbreaks shape smallâ€scale patterns of soil organic matter stocks and dynamics at the Subarctic mountain birch treeline?. Global Change Biology, 2022, 28, 441-462.	4.2	9
99	Long-term cumulative impacts of windthrow and subsequent management on tree species composition and aboveground biomass: A simulation study considering regeneration on downed logs. Forest Ecology and Management, 2021, 502, 119728.	1.4	7
100	Soil Carbon Estimates and Buried Wood. , 2017, , .		0
102	Characterizing individual treeâ€level snags using airborne lidarâ€derived forest canopy gaps within closedâ€canopy conifer forests. Methods in Ecology and Evolution, 2022, 13, 473-484.	2.2	4
104	Estimated Amounts and Rates of Carbon Mobilized by Landsliding in Oldâ€Growth Temperate Forests of SE Alaska. Journal of Geophysical Research G: Biogeosciences, 2021, 126, .	1.3	6
105	Comparing Measurement Approaches for Quantifying CO2 Flux from Downed Woody Debris with a Dynamic Chamber Method. Russian Journal of Ecology, 2020, 51, 351-362.	0.3	1
106	Deadwood volume and quality in recreational forests: the case study of the Belgrade forest (Turkey). Forest Systems, 2020, 29, e008.	0.1	3
108	Effect of Temperature on the Intensity of the Biogenic Decomposition of Aspen Bark. Contemporary Problems of Ecology, 2020, 13, 663-673.	0.3	0
109	Stock of standing dead trees in boreal forests of Central Siberia. IOP Conference Series: Earth and Environmental Science, 2021, 875, 012059.	0.2	0
110	Modelagem volumÃ©trica da necromassa lenhosa em floresta manejada e nÃ£o manejada na AmazÃ´nia Central. Ciencia Florestal, 2021, 31, 1812-1832.	0.1	0
134	The dynamics of the carbon storage and fluxes in Scots pine (Pinus sylvestris) chronosequence. Science of the Total Environment, 2022, 817, 152973.	3.9	16
136	Bark controls tree branch-leached dissolved organic matter production and bioavailability in a subtropical forest. Biogeochemistry, 2022, 158, 345-355.	1.7	2
137	Coarse woody debris density and carbon concentration by decay classes in mixed montane wet tropical forests. Biotropica, 2022, 54, 635-644.	0.8	6
138	Wood-decay type and fungal guild dominance across a North American log transplant experiment. Fungal Ecology, 2022, 59, 101151.	0.7	8
139	Controls of Initial Wood Decomposition on and in Forest Soils Using Standard Material. Frontiers in Forests and Global Change, 2022, 5, .	1.0	3
140	Modelling the disappearance of coarse woody debris, following a land clearing event. Carbon Balance and Management, 2021, 16, 36.	1.4	0

#	Article	IF	Citations
141	Does deadwood moisture vary jointly with surface soil water content?. Soil Science Society of America Journal, 2022, 86, 1113-1121.	1.2	5
143	Emission of CO₂ and CH₄ From 13 Deadwood Tree Species Is Linked to Tree Species Identity and Management Intensity in Forest and Grassland Habitats. Global Biogeochemical Cycles, 2022, 36, .	1.9	9
144	Broadâ€scale wood degradation dynamics in the face of climate change: A metaâ€analysis. GCB Bioenergy, 2022, 14, 941-958.	2.5	6
145	Effects of differences in aboveground dead organic matter types on the standâ€scale necromass and <scp>CO₂</scp> efflux estimates in a subtropical forest in Okinawa Island, Japan. Ecological Research, 2022, 37, 609-622.	0.7	1
146	Carbon 5â€“60 Years After Fire: Planting Trees Does Not Compensate for Losses in Dead Wood Stores. Frontiers in Forests and Global Change, 0, 5, .	1.0	3
147	Tree stumps â€” an important but undervalued dead wood pool. Annals of Forest Science, 2022, 79, .	0.8	5
148	Temporal trends in CO2 emissions from Picea rubens stumps: A chronosequence approach. Forest Ecology and Management, 2022, 524, 120528.	1.4	1
149	Postfire dynamics of standing dead tree stock in northern boreal forests. BIO Web of Conferences, 2022, 52, 00038.	0.1	0
150	Plot Level Estimation Procedures and Models. Springer Tracts in Civil Engineering, 2022, , 119-149.	0.3	0
152	Advances in biological techniques for sustainable lignocellulosic waste utilization in biogas production. Renewable and Sustainable Energy Reviews, 2022, 170, 112995.	8.2	26
153	Linking wood-decay fungal communities to decay rates: Using a long-term experimental manipulation of deadwood and canopy gaps. Fungal Ecology, 2023, 62, 101220.	0.7	3
154	Managed Forests and Methane: Recent Research and Prospects for Best Management Practices. Handbook of Environmental Chemistry, 2022, , .	0.2	0
155	Drivers of deadwood decay of 13 temperate tree species are similar between forest and grassland habitats. Frontiers in Forests and Global Change, 0, 5, .	1.0	3
156	The Necrobiome of Deadwood: The Life after Death. Ecologies, 2023, 4, 20-38.	0.7	2
157	Dynamics of standing deadwood in Austrian forests under varying forest management and climatic conditions. Journal of Applied Ecology, 2023, 60, 696-713.	1.9	7
158	Coarse Woody Debris in Monsoon Tropical Forests of Vietnam. Contemporary Problems of Ecology, 2022, 15, 787-798.	0.3	0
159	A Modelling System for Dead Wood Assessment in the Forests of Northern Eurasia. Forests, 2023, 14, 45.	0.9	2
161	Perspectives of the Fritzâ€Scheffer Awardee 2021: Profileâ€•to ecosystemâ€scale perspectives on soil organic matter formation as demonstrated by woody debris in forest dynamics. Journal of Plant Nutrition and Soil Science, 0, , .	1.1	0

#	Article	IF	Citations
162	A simple concept for estimating deadwood carbon in forests. Carbon Management, 2023, 14, .	1.2	0
163	The Classification of Log Decay Classes and an Analysis of Their Physical and Chemical Characteristics Based on Artificial Neural Networks and K-Means Clustering. Forests, 2023, 14, 852.	0.9	1
169	Climate-Smart Forestry: Promise and risks for forests, society, and climate. , 2023, 2, e0000212.		4
181	A Method for Designing with Deadwood for Architectural Acoustics. Sustainable Development Goals Series, 2024, , 377-392.	0.2	0
183	Stand Structure and Biomass. Green Energy and Technology, 2024, , 53-90.	0.4	0
184	Sources and Distribution of Forest Biomass for Energy. Green Energy and Technology, 2024, , 25-52.	0.4	1