

Mark E Harmon

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

10,042
citations

94433

37
h-index

161849

54
g-index

61
all docs

61
docs citations

61
times ranked

9043
citing authors

#	ARTICLE	IF	CITATIONS
1	Widespread Increase of Tree Mortality Rates in the Western United States. <i>Science</i> , 2009, 323, 521-524.	12.6	1,465
2	Disturbances and structural development of natural forest ecosystems with silvicultural implications, using Douglas-fir forests as an example. <i>Forest Ecology and Management</i> , 2002, 155, 399-423.	3.2	1,383
3	Tree Death as an Ecological Process. <i>BioScience</i> , 1987, 37, 550-556.	4.9	756
4	Long-term dynamics of pine and hardwood litter in contrasting environments: toward a global model of decomposition. <i>Global Change Biology</i> , 2000, 6, 751-765.	9.5	721
5	Effects on Carbon Storage of Conversion of Old-Growth Forests to Young Forests. <i>Science</i> , 1990, 247, 699-702.	12.6	679
6	A Carbon Budget for Forests of the Conterminous United States. , 1995, 5, 421-436.		404
7	Use of Large-Footprint Scanning Airborne Lidar To Estimate Forest Stand Characteristics in the Western Cascades of Oregon. <i>Remote Sensing of Environment</i> , 1999, 67, 298-308.	11.0	398
8	A synthesis of current knowledge on forests and carbon storage in the United States. , 2011, 21, 1902-1924.		354
9	Tree Seedlings on Logs in Picea-Tsuga Forests of Oregon and Washington. <i>Ecology</i> , 1989, 70, 48-59.	3.2	319
10	POTENTIAL UPPER BOUNDS OF CARBON STORES IN FORESTS OF THE PACIFIC NORTHWEST. , 2002, 12, 1303-1317.		209
11	A chronosequence of wood decomposition in the boreal forests of Russia. <i>Canadian Journal of Forest Research</i> , 2003, 33, 1211-1226.	1.7	200
12	Decomposition vectors: a new approach to estimating woody detritus decomposition dynamics. <i>Canadian Journal of Forest Research</i> , 2000, 30, 76-84.	1.7	178
13	Effects of silvicultural practices on carbon stores in Douglas-fir – western hemlock forests in the Pacific Northwest, U.S.A.: results from a simulation model. <i>Canadian Journal of Forest Research</i> , 2002, 32, 863-877.	1.7	168
14	Land use strategies to mitigate climate change in carbon dense temperate forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3663-3668.	7.1	168
15	Decomposition and Mass of Woody Detritus in the Dry Tropical Forests of the Northeastern Yucatan Peninsula, Mexico. <i>Biotropica</i> , 1995, 27, 305.	1.6	153
16	Heterotrophic respiration in disturbed forests: A review with examples from North America. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	137
17	Production, Respiration, and Overall Carbon Balance in an Old-growth Pseudotsuga-Tsuga Forest Ecosystem. <i>Ecosystems</i> , 2004, 7, 498.	3.4	134
18	Carbon debt and carbon sequestration parity in forest bioenergy production. <i>GCB Bioenergy</i> , 2012, 4, 818-827.	5.6	132

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19	Coarse woody debris in mixed-conifer forests, Sequoia National Park, California. <i>Canadian Journal of Forest Research</i> , 1987, 17, 1265-1272.	1.7	119
20	Can fuelâ€reduction treatments really increase forest carbon storage in the western US by reducing future fire emissions?. <i>Frontiers in Ecology and the Environment</i> , 2012, 10, 83-90.	4.0	117
21	Ecological Variability in Space and Time: Insights Gained from the US LTER Program. <i>BioScience</i> , 2003, 53, 57.	4.9	97
22	Fine-root decomposition and N dynamics in coniferous forests of the Pacific Northwest, U.S.A.. <i>Canadian Journal of Forest Research</i> , 2002, 32, 320-331.	1.7	93
23	Release of coarse woody detritus-related carbon: a synthesis across forest biomes. <i>Carbon Balance and Management</i> , 2020, 15, 1.	3.2	93
24	Fungal sporocarp mediated losses of Ca, Fe, K, Mg, Mn, N, P, and Zn from conifer logs in the early stages of decomposition. <i>Canadian Journal of Forest Research</i> , 1994, 24, 1883-1893.	1.7	83
25	Decomposition and nitrogen release from decomposing woody roots in coniferous forests of the Pacific Northwest: a chronosequence approach. <i>Canadian Journal of Forest Research</i> , 2001, 31, 246-260.	1.7	82
26	Plant-pest interactions in time and space: A Douglas-fir bark beetle outbreak as a case study. <i>Landscape Ecology</i> , 1999, 14, 105-120.	4.2	74
27	Decomposition of coarse woody debris originating by clearcutting of an old-growth conifer forest. <i>Ecoscience</i> , 2005, 12, 151-160.	1.4	73
28	Estimating decomposition rate constants for European tree species from literature sources. <i>European Journal of Forest Research</i> , 2008, 127, 301-313.	2.5	71
29	Forest sector carbon management, measurement and verification, and discussion of policy related to climate change. <i>Carbon Management</i> , 2011, 2, 73-84.	2.4	68
30	Effects of Partial Harvest on the Carbon Stores in Douglas-fir/Western Hemlock Forests: A Simulation Study. <i>Ecosystems</i> , 2009, 12, 777-791.	3.4	64
31	Decomposition of standing dead trees in the southern Appalachian Mountains. <i>Oecologia</i> , 1982, 52, 214-215.	2.0	63
32	Coarse woody debris in forest regions of Russia. <i>Canadian Journal of Forest Research</i> , 2002, 32, 768-778.	1.7	62
33	Modeling carbon stores in Oregon and Washington forest products: 1900?1992. <i>Climatic Change</i> , 1996, 33, 521-550.	3.6	60
34	Have product substitution carbon benefits been overestimated? A sensitivity analysis of key assumptions. <i>Environmental Research Letters</i> , 2019, 14, 065008.	5.2	60
35	Water balance of conifer logs in early stages of decomposition. <i>Plant and Soil</i> , 1995, 172, 141-152.	3.7	58
36	Impacts of disturbance on the terrestrial carbon budget of North America. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 303-316.	3.0	57

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37	Meeting GHG reduction targets requires accounting for all forest sector emissions. Environmental Research Letters, 2019, 14, 095005.	5.2	53
38	Estimating uncertainty in the volume and carbon storage of downed coarse woody debris. Ecological Applications, 2019, 29, e01844.	3.8	51
39	Estimates of live-tree carbon stores in the Pacific Northwest are sensitive to model selection. Carbon Balance and Management, 2011, 6, 2.	3.2	47
40	Changing Temporal Patterns of Forest Carbon Stores and Net Ecosystem Carbon Balance: the Stand to Landscape Transformation. Landscape Ecology, 2007, 22, 77-94.	4.2	41
41	Modeling Historical Patterns of Tree Utilization in the Pacific Northwest: Carbon Sequestration Implications. , 1996, 6, 641-652.		39
42	Estimating heterotrophic respiration at large scales: challenges, approaches, and next steps. Ecosphere, 2016, 7, e01380.	2.2	35
43	Acetylene reduction in conifer logs during early stages of decomposition. Plant and Soil, 1993, 148, 53-61.	3.7	34
44	Evaluating carbon storage, timber harvest, and habitat possibilities for a Western Cascades (<sc>USA</sc>) forest landscape. Ecological Applications, 2016, 26, 2044-2059.	3.8	31
45	Woody Detritus its Contribution to Carbon Dynamics of Old-Growth Forests: the Temporal Context. Ecological Studies, 2009, , 159-190.	1.2	31
46	Modeling multiscale effects of light limitations and edge-induced mortality on carbon stores in forest landscapes. Landscape Ecology, 2003, 18, 701-721.	4.2	29
47	Testing predictions of forest succession using long-term measurements: 100-yr of observations in the <sc>O</sc>regon <sc>C</sc>ascades. Journal of Vegetation Science, 2015, 26, 722-732.	2.2	29
48	Carbon balance on federal forest lands of Western Oregon and Washington: The impact of the Northwest Forest Plan. Forest Ecology and Management, 2012, 286, 171-182.	3.2	28
49	Uncertainty analysis: an evaluation metric for synthesis science. Ecosphere, 2015, 6, 1-12.	2.2	21
50	Quantifying Uncertainty in Net Primary Production Measurements. , 2007, , 238-260.		19
51	Diffusion and seasonal dynamics of O ₂ in woody debris from the Pacific Northwest, USA. Plant and Soil, 2002, 243, 67-79.	3.7	17
52	The role of woody detritus in biogeochemical cycles: past, present, and future. Biogeochemistry, 2021, 154, 349-369.	3.5	17
53	Biomass accumulation over the first 150 years in coastal Oregon Picea-Tsuga forest. Journal of Vegetation Science, 2000, 11, 725-738.	2.2	15
54	Carbon pools and biomass stores in the forests of Coastal Alaska: Uncertainty of estimates and impact of disturbance. Forest Ecology and Management, 2019, 434, 303-317.	3.2	15

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55	Mortality in Forested Ecosystems: Suggested Conceptual Advances. <i>Forests</i> , 2020, 11, 572.	2.1	9
56	Combustion of Aboveground Wood from Live Trees in Megafires, CA, USA. <i>Forests</i> , 2022, 13, 391.	2.1	8
57	Forest Carbon Calculators: A Review for Managers, Policymakers, and Educators. <i>Journal of Forestry</i> , 2016, 114, 134-143.	1.0	7
58	Inter-annual variability and spatial coherence of net primary productivity across a western Oregon Cascades landscape. <i>Forest Ecology and Management</i> , 2015, 335, 60-70.	3.2	6
59	Estimating annual bole biomass production using uncertainty analysis. <i>Forest Ecology and Management</i> , 2007, 253, 202-210.	3.2	5
60	Decomposition differences between snags and logs in forests of Kenai Peninsula, Alaska. <i>Canadian Journal of Forest Research</i> , 0, , 1-16.	1.7	1