Sean M Mcmahon

List of Publications by Year
in descending order

43 papers	4,227 citations	201575 27 h-index	254106 43 g-index
47 all docs	47 docs citations	47 times ranked	7069 citing authors

#	Article	IF	Citations
1	<scp>CTFS</scp>â€Forest<scp>GEO</scp>: a worldwide network monitoring forests in an era of global change. Global Change Biology, 2015, 21, 528-549.	4.2	473
2	Drivers and mechanisms of tree mortality in moist tropical forests. New Phytologist, 2018, 219, 851-869.	3.5	341
3	Global importance of largeâ€diameter trees. Global Ecology and Biogeography, 2018, 27, 849-864.	2.7	330
4	Evidence for a recent increase in forest growth. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3611-3615.	3.3	318
5	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO₂. New Phytologist, 2021, 229, 2413-2445.	3.5	286
6	Improving assessment and modelling of climate change impacts on global terrestrial biodiversity. Trends in Ecology and Evolution, 2011, 26, 249-259.	4.2	268
7	Advancing population ecology with integral projection models: a practical guide. Methods in Ecology and Evolution, 2014, 5, 99-110.	2.2	231
8	Plant diversity increases with the strength of negative density dependence at the global scale. Science, 2017, 356, 1389-1392.	6.0	222
9	Amazon forest carbon dynamics predicted by profiles of canopy leaf area and light environment. Ecology Letters, 2012, 15, 1406-1414.	3.0	180
10	Forecasting species range dynamics with processâ€explicit models: matching methods to applications. Ecology Letters, 2019, 22, 1940-1956.	3.0	144
11	Highâ€dimensional coexistence based on individual variation: a synthesis of evidence. Ecological Monographs, 2010, 80, 569-608.	2.4	141
12	Towards Process-based Range Modeling of Many Species. Trends in Ecology and Evolution, 2016, 31, 860-871.	4.2	123
13	ForestGEO: Understanding forest diversity and dynamics through a global observatory network. Biological Conservation, 2021, 253, 108907.	1.9	122
14	On using integral projection models to generate demographically driven predictions of species' distributions: development and validation using sparse data. Ecography, 2014, 37, 1167-1183.	2.1	121
15	<i><scp>IPM</scp>pack</i>: an <scp>R</scp> package for integral projection models. Methods in Ecology and Evolution, 2013, 4, 195-200.	2.2	93
16	Tropical tree mortality has increased with rising atmospheric water stress. Nature, 2022, 608, 528-533.	13.7	74
17	Seasonal and droughtâ€related changes in leaf area profiles depend on height and light environment in an Amazon forest. New Phytologist, 2019, 222, 1284-1297.	3.5	64
18	The roots of the drought: Hydrology and water uptake strategies mediate forestâ€wide demographic response to precipitation. Journal of Ecology, 2018, 106, 1495-1507.	1.9	53

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19	Hydraulicallyâ€vulnerable trees survive on deepâ€water access during droughts in a tropical forest. New Phytologist, 2021, 231, 1798-1813.	3.5	51
20	Joint effects of climate, tree size, and year on annual tree growth derived from treeâ€ring records of ten globally distributed forests. Global Change Biology, 2022, 28, 245-266.	4.2	46
21	Climate sensitive size-dependent survival in tropical trees. Nature Ecology and Evolution, 2018, 2, 1436-1442.	3.4	41
22	A general model of intraâ€annual tree growth using dendrometer bands. Ecology and Evolution, 2015, 5, 243-254.	0.8	39
23	Sizeâ€related scaling of tree form and function in a mixedâ€age forest. Functional Ecology, 2015, 29, 1587-1602.	1.7	39
24	The importance and challenges of detecting changes in forest mortality rates. Ecosphere, 2019, 10, e02615.	1.0	39
25	Forest community response to invasive pathogens: the case of ash dieback in a British woodland. Journal of Ecology, 2016, 104, 315-330.	1.9	38
26	Inferring forest fate from demographic data: from vital rates to population dynamic models. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20172050.	1.2	31
27	Demography and biomass change in monodominant and mixed old-growth forest of the Congo. Journal of Tropical Ecology, 2011, 27, 447-461.	0.5	30
28	Leaf turgor loss point shapes local and regional distributions of evergreen but not deciduous tropical trees. New Phytologist, 2021, 230, 485-496.	3.5	30
29	Arbuscular mycorrhizal trees influence the latitudinal beta-diversity gradient of tree communities in forests worldwide. Nature Communications, 2021, 12, 3137.	5.8	28
30	The interspecific growthâ€“mortality trade-off is not a general framework for tropical forest community structure. Nature Ecology and Evolution, 2021, 5, 174-183.	3.4	27
31	Cryptic phenology in plants: Case studies, implications, and recommendations. Global Change Biology, 2019, 25, 3591-3608.	4.2	26
32	Tree Circumference Dynamics in Four Forests Characterized Using Automated Dendrometer Bands. PLoS ONE, 2016, 11, e0169020.	1.1	25
33	Distribution of biomass dynamics in relation to tree size in forests across the world. New Phytologist, 2022, 234, 1664-1677.	3.5	24
34	A Predictive Framework to Understand Forest Responses to Global Change. Annals of the New York Academy of Sciences, 2009, 1162, 221-236.	1.8	20
35	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
36	Individual tree damage dominates mortality risk factors across six tropical forests. New Phytologist, 2022, 233, 705-721.	3.5	18

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37	Tropical tree growth sensitivity to climate is driven by species intrinsic growth rate and leaf traits. Global Change Biology, 2022, 28, 1414-1432.	4.2	16
38	Closing the life cycle of forest trees: The difficult dynamics of seedlingâ€toâ€sapling transitions in a subtropical rainforest. Journal of Ecology, 2021, 109, 2705-2716.	1.9	14
39	<i>allodb</i>: An R package for biomass estimation at globally distributed extratropical forest plots. Methods in Ecology and Evolution, 2022, 13, 330-338.	2.2	11
40	Response to Comment on â€œPlant diversity increases with the strength of negative density dependence at the global scaleâ€ Science, 2018, 360, .	6.0	9
41	Demographic composition, not demographic diversity, predicts biomass and turnover across temperate and tropical forests. Global Change Biology, 2022, 28, 2895-2909.	4.2	8
42	Drought and the interannual variability of stem growth in an aseasonal, everwet forest. Biotropica, 2019, 51, 139-154.	0.8	7
43	Response to Comment on â€œPlant diversity increases with the strength of negative density dependence at the global scaleâ€ Science, 2018, 360, .	6.0	6