

# Paul R Moorcroft

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

5,987  
citations

117625

34  
h-index

144013

57  
g-index

65  
all docs

65  
docs citations

65  
times ranked

8938  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vegetation demographics in Earth System Models: A review of progress and priorities. <i>Global Change Biology</i> , 2018, 24, 35-54.	9.5	478
2	Contributions of Land-Use History to Carbon Accumulation in U.S. Forests. <i>Science</i> , 2000, 290, 1148-1151.	12.6	452
3	Building the bridge between animal movement and population dynamics. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 2289-2301.	4.0	401
4	Drivers and mechanisms of tree mortality in moist tropical forests. <i>New Phytologist</i> , 2018, 219, 851-869.	7.3	341
5	High sensitivity of peat decomposition to climate change through water-table feedback. <i>Nature Geoscience</i> , 2008, 1, 763-766.	12.9	336
6	Assessing uncertainties in a second-generation dynamic vegetation model caused by ecological scale limitations. <i>New Phytologist</i> , 2010, 187, 666-681.	7.3	271
7	Confronting model predictions of carbon fluxes with measurements of Amazon forests subjected to experimental drought. <i>New Phytologist</i> , 2013, 200, 350-365.	7.3	247
8	Mechanistic home range models capture spatial patterns and dynamics of coyote territories in Yellowstone. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 1651-1659.	2.6	166
9	Ecosystem heterogeneity determines the ecological resilience of the Amazon to climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 793-797.	7.1	161
10	The contributions of land-use change, CO <sub>2</sub> fertilization, and climate variability to the Eastern US carbon sink. <i>Global Change Biology</i> , 2006, 12, 2370-2390.	9.5	153
11	Terrestrial models and global change: challenges for the future. <i>Global Change Biology</i> , 1998, 4, 581-590.	9.5	151
12	Tree mortality in the eastern and central United States: patterns and drivers. <i>Global Change Biology</i> , 2011, 17, 3312-3326.	9.5	151
13	The global-scale temperature and moisture dependencies of soil organic carbon decomposition: an analysis using a mechanistic decomposition model. <i>Biogeochemistry</i> , 2006, 80, 217-231.	3.5	147
14	How close are we to a predictive science of the biosphere?. <i>Trends in Ecology and Evolution</i> , 2006, 21, 400-407.	8.7	140
15	BEYOND POTENTIAL VEGETATION: COMBINING LIDAR DATA AND A HEIGHT-STRUCTURED MODEL FOR CARBON STUDIES. , 2004, 14, 873-883.		134
16	Deforestation and climate feedbacks threaten the ecological integrity of south-eastern Amazonia. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120155.	4.0	118
17	Variation in stem mortality rates determines patterns of above-ground biomass in Amazonian forests: implications for dynamic global vegetation models. <i>Global Change Biology</i> , 2016, 22, 3996-4013.	9.5	116
18	The Sensitivity of North American Terrestrial Carbon Fluxes to Spatial and Temporal Variation in Soil Moisture: An Analysis Using Radar-Derived Estimates of Root-Zone Soil Moisture. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3208-3231.	3.0	111

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19	MECHANISTIC HOME RANGE MODELS AND RESOURCE SELECTION ANALYSIS: A RECONCILIATION AND UNIFICATION. <i>Ecology</i> , 2008, 89, 1112-1119.	3.2	109
20	Do dynamic global vegetation models capture the seasonality of carbon fluxes in the Amazon basin? A data-model intercomparison. <i>Global Change Biology</i> , 2017, 23, 191-208.	9.5	106
21	Responses of terrestrial ecosystems and carbon budgets to current and future environmental variability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 8275-8280.	7.1	101
22	Observing changing ecological diversity in the Anthropocene. <i>Frontiers in Ecology and the Environment</i> , 2013, 11, 129-137.	4.0	101
23	Future deforestation in the Amazon and consequences for South American climate. <i>Agricultural and Forest Meteorology</i> , 2015, 214-215, 12-24.	4.8	100
24	The fate of Amazonian ecosystems over the coming century arising from changes in climate, atmospheric $\text{CO}_2$ and land use. <i>Global Change Biology</i> , 2015, 21, 2569-2587.	9.5	97
25	The Influence of Previous Mountain Pine Beetle ( <i>Dendroctonus ponderosae</i> ) Activity on the 1988 Yellowstone Fires. <i>Ecosystems</i> , 2006, 9, 1318-1327.	3.4	95
26	Seasonal carbon dynamics and water fluxes in an Amazon rainforest. <i>Global Change Biology</i> , 2012, 18, 1322-1334.	9.5	87
27	Predicting ecosystem dynamics at regional scales: an evaluation of a terrestrial biosphere model for the forests of northeastern North America. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 222-235.	4.0	75
28	Predicting the impact of hemlock woolly adelgid on carbon dynamics of eastern United States forests. <i>Canadian Journal of Forest Research</i> , 2010, 40, 119-133.	1.7	70
29	Differences in xylem and leaf hydraulic traits explain differences in drought tolerance among mature Amazon rainforest trees. <i>Global Change Biology</i> , 2017, 23, 4280-4293.	9.5	66
30	Ecosystem heterogeneity and diversity mitigate Amazon forest resilience to frequent extreme droughts. <i>New Phytologist</i> , 2018, 219, 914-931.	7.3	64
31	Mechanistic Home Range Analysis. (MPB-43)., 2013, , .		63
32	The biophysics, ecology, and biogeochemistry of functionally diverse, vertically and horizontally heterogeneous ecosystems: the Ecosystem Demography model, version 2.2 – Part 1: Model description. <i>Geoscientific Model Development</i> , 2019, 12, 4309-4346.	3.6	62
33	Mechanistic approaches to understanding and predicting mammalian space use: recent advances, future directions. <i>Journal of Mammalogy</i> , 2012, 93, 903-916.	1.3	61
34	Impacts of climate change and deforestation on hydropower planning in the Brazilian Amazon. <i>Nature Sustainability</i> , 2020, 3, 430-436.	23.7	53
35	Using Lidar and Radar measurements to constrain predictions of forest ecosystem structure and function. , 2011, 21, 1120-1137.		49
36	Impacts of Degradation on Water, Energy, and Carbon Cycling of the Amazon Tropical Forests. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2020JG005677.	3.0	44

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37	Future Climate and Land Use Change Impacts on River Flows in the Tapaj�s Basin in the Brazilian Amazon. <i>Earth's Future</i> , 2019, 7, 993-1017.	6.3	39
38	Regional carbon fluxes from an observationally constrained dynamic ecosystem model: Impacts of disturbance, CO <sub>2</sub> fertilization, and heterogeneous land cover. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	36
39	Experimental evidence of memory-based foraging decisions in a large wild mammal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	34
40	Changing Amazon biomass and the role of atmospheric CO <sub>2</sub> concentration, climate, and land use. <i>Global Biogeochemical Cycles</i> , 2016, 30, 18-39.	4.9	32
41	Land cover change explains the increasing discharge of the Paranj� River. <i>Regional Environmental Change</i> , 2018, 18, 1871-1881.	2.9	32
42	Leaf surface water, not plant water stress, drives diurnal variation in tropical forest canopy water content. <i>New Phytologist</i> , 2021, 231, 122-136.	7.3	30
43	The biophysics, ecology, and biogeochemistry of functionally diverse, vertically and horizontally heterogeneous ecosystems: the Ecosystem Demography model, version 2.2 � Part 2: Model evaluation for tropical South America. <i>Geoscientific Model Development</i> , 2019, 12, 4347-4374.	3.6	29
44	Preference and familiarity mediate spatial responses of a large herbivore to experimental manipulation of resource availability. <i>Scientific Reports</i> , 2020, 10, 11946.	3.3	28
45	Climatic controls of interannual variability in regional carbon fluxes from top�down and bottom�up perspectives. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	27
46	The Central Amazon Biomass Sink Under Current and Future Atmospheric CO <sub>2</sub> : Predictions From Big�Leaf and Demographic Vegetation Models. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005500.	3.0	23
47	Mass conservation and atmospheric dynamics in the Regional Atmospheric Modeling System (RAMS). <i>Environmental Fluid Mechanics</i> , 2005, 5, 109-134.	1.6	21
48	Imaging spectrometry-derived estimates of regional ecosystem composition for the Sierra Nevada, California. <i>Remote Sensing of Environment</i> , 2019, 228, 14-30.	11.0	19
49	Movement, space-use and resource preferences of European golden jackals in human-dominated landscapes: insights from a telemetry study. <i>Mammalian Biology</i> , 2021, 101, 619-630.	1.5	18
50	Simulating boreal forest dynamics from perspectives of ecophysiology, resource availability, and climate change. <i>Ecological Research</i> , 2010, 25, 501-511.	1.5	17
51	Bias�corrected data sets of climate model outputs at uniform space�time resolution for land surface modelling over Amazonia. <i>International Journal of Climatology</i> , 2017, 37, 621-636.	3.5	17
52	Decoupling the effects of deforestation and climate variability in the T�apaj�s river basin in the B�razilian A�mazon. <i>Hydrological Processes</i> , 2018, 32, 1648-1663.	2.6	16
53	Cluster-based trajectory segmentation with local noise. <i>Data Mining and Knowledge Discovery</i> , 2018, 32, 1017-1055.	3.7	16
54	Memory drives the formation of animal home ranges: Evidence from a reintroduction. <i>Ecology Letters</i> , 2022, 25, 716-728.	6.4	15

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55	Ecological and Behavioral Drivers of Supplemental Feeding Use by Roe Deer <i>Capreolus capreolus</i> in a Peri-Urban Context. <i>Animals</i> , 2020, 10, 2088.	2.3	14
56	Technical note: A hydrological routing scheme for the Ecosystem Demography model (ED2+R) tested in the Tapaj�s River basin in the Brazilian Amazon. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 4629-4648.	4.9	12
57	Climate change and anthropogenic food manipulation interact in shifting the distribution of a large herbivore at its altitudinal range limit. <i>Scientific Reports</i> , 2021, 11, 7600.	3.3	11
58	Science in support of Amazonian conservation in the 21st century: the case of Brazil. <i>Biotropica</i> , 2018, 50, 850-858.	1.6	6
59	Understanding water and energy fluxes in the Amazonia: Lessons from an observation�model intercomparison. <i>Global Change Biology</i> , 2021, 27, 1802-1819.	9.5	6
60	Impacts of the 2012�2015 Californian Drought on Carbon, Water and Energy Fluxes in Californian Sierras: Results from an Imaging Spectrometry�Constrained Terrestrial Biosphere Model. <i>Global Change Biology</i> , 2021, , .	9.5	4
61	Knowing your neighbours: How memory�mediated conspecific avoidance influences home ranges. <i>Journal of Animal Ecology</i> , 2020, 89, 2746-2749.	2.8	1