Peter S Curtis

List of Publications by Citations

56 papers	7,374 citations	31 h-index	57 g-index
57 ext. papers	8,339 ext. citations	5.5 avg, IF	5.61 L-index

#	Paper	IF	Citations
56	THE META-ANALYSIS OF RESPONSE RATIOS IN EXPERIMENTAL ECOLOGY. *Ecology*, **1999**, 80, 1150-1156	4.6	2139
55	A meta-analysis of elevated CO effects on woody plant mass, form, and physiology. *Oecologia*, **1998**, 113, 299-313	2.9	1054
54	Elevated atmospheric CO2 and feedback between carbon and nitrogen cycles. *Plant and Soil*, **1993**, 151, 105-117	4.2	579
53	Plant reproduction under elevated CO2 conditions: a meta-analysis of reports on 79 crop and wild species. *New Phytologist*, **2002**, 156, 9-26	9.8	408
52	A meta-analysis of elevated [CO2] effects on soybean (Glycine max) physiology, growth and yield. *Global Change Biology*, **2002**, 8, 695-709	11.4	365
51	Atmospheric CO2, soil nitrogen and turnover of fine roots. *New Phytologist*, **1995**, 129, 579-585	9.8	297
50	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. *Scientific Data*, **2020**, 7, 225	8.2	256
49	A model-data comparison of gross primary productivity: Results from the North American Carbon Program site synthesis. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		239
48	Joint control of terrestrial gross primary productivity by plant phenology and physiology. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 2788-93	11.5	181
47	The role of canopy structural complexity in wood net primary production of a maturing northern deciduous forest. *Ecology*, **2011**, 92, 1818-27	4.6	161
46	The legacy of harvest and fire on ecosystem carbon storage in a north temperate forest. *Global Change Biology*, **2007**, 13, 1935-1949	11.4	146
45	Maintaining high rates of carbon storage in old forests: A mechanism linking canopy structure to forest function. *Forest Ecology and Management*, **2013**, 298, 111-119	3.9	112
44	Interacting effects of soil fertility and atmospheric CO on leaf area growth and carbon gain physiology in Populus euramericana (Dode) Guinier. *New Phytologist*, **1995**, 129, 253-263	9.8	105
43	Carbon cost of root systems: an architectural approach. *Plant and Soil*, **1994**, 165, 161-169	4.2	96
42	Genotype-specific effects of elevated CO on fecundity in wild radish (Raphanus raphanistrum). *Oecologia*, **1994**, 97, 100-105	2.9	89
41	Contrasting strategies of hydraulic control in two codominant temperate tree species. *Ecohydrology*, **2017**, 10, e1815	2.5	76
40	Response of soil biota to elevated atmospheric CO in poplar model systems. *Oecologia*, **1998**, 113, 247-251	2.9	74

39	Above- and belowground response of Populus grandidentata to elevated atmospheric CO2 and soil N availability. *Plant and Soil*, **1994**, 165, 45-51	4.2	65
38	Effects of Soil Carbon Amendment on Nitrogen Availability and Plant Growth in an Experimental Tallgrass Prairie Restoration. *Restoration Ecology*, **2004**, 12, 568-574	3.1	60
37	Species-specific transpiration responses to intermediate disturbance in a northern hardwood forest. *Journal of Geophysical Research G: Biogeosciences*, **2014**, 119, 2292-2311	3.7	59
36	Belowground responses to rising atmospheric CO2: Implications for plants, soil biota and ecosystem processes. *Plant and Soil*, **1994**, 165, 1-6	4.2	57
35	Leaf gas exchange and nitrogen dynamics of N2-fixing, field-grown Alnus glutinosa under elevated atmospheric CO2. *Global Change Biology*, **1995**, 1, 55-61	11.4	51
34	Genotypic variation for condensed tannin production in trembling aspen (POPULUS TREMULOIDES, salicaceae) under elevated CO2 and in high- and low-fertility soil. *American Journal of Botany*, **1999**, 86, 1154-1159	2.7	49
33	Disturbance, complexity, and succession of net ecosystem production in North America's temperate deciduous forests. *Ecosphere*, **2016**, 7, e01375	3.1	45
32	Forest structure in space and time: Biotic and abiotic determinants of canopy complexity and their effects on net primary productivity. *Agricultural and Forest Meteorology*, **2018**, 250-251, 181-191	5.8	44
31	Growth and nitrogen accretion of dinitrogen-fixing Alnus glutinosa (L.) Gaertn. under elevated carbon dioxide. *Plant Ecology*, **1997**, 130, 63-70	1.7	44
30	Forest aging, disturbance and the carbon cycle. *New Phytologist*, **2018**, 219, 1188-1193	9.8	38
29	Elevated Atmospheric Carbon Dioxide and Leaf Litter Chemistry: Influences on Microbial Respiration and Net Nitrogen Mineralization. *Soil Science Society of America Journal*, **1996**, 60, 1571-1577	2.5	36
28	Canopy Structural Changes Following Widespread Mortality of Canopy Dominant Trees. *Forests*, **2013**, 4, 537-552	2.8	34
27	Aboveground Growth and Competition in Forest Gap Models: An Analysis for Studies of Climatic Change. *Climatic Change*, **2001**, 51, 415-447	4.5	32
26	A meta-analytical test of elevated CO2 effects on plant respiration. *Plant Ecology*, **2002**, 161, 251-261	1.7	31
25	Defining a spectrum of integrative trait-based vegetation canopy structural types. *Ecology Letters*, **2019**, 22, 2049-2059	10	26
24	Heritable variation in stomatal responses to elevated CO2 in wild radish, Raphanus raphanistrum (Brassicaceae). *American Journal of Botany*, **1998**, 85, 253-258	2.7	26
23	Attributing the variability of eddy-covariance CO2 flux measurements across temporal scales using geostatistical regression for a mixed northern hardwood forest. *Global Biogeochemical Cycles*, **2010**, 24, n/a-n/a	5.9	25
22	INTERACTIVE EFFECTS OF ATMOSPHERIC CO2 AND SOIL-N AVAILABILITY ON FINE ROOTS OF POPULUS TREMULOIDES **2000**, 10, 18-33		25

21	Evaluating forest subcanopy response to moderate severity disturbance and contribution to ecosystem-level productivity and resilience. *Forest Ecology and Management*, **2016**, 376, 135-147	3.9	23
20	Phenological and Temperature Controls on the Temporal Non-Structural Carbohydrate Dynamics of Populus grandidentata and Quercus rubra. *Forests*, **2010**, 1, 65-81	2.8	22
19	COSORE: A community database for continuous soil respiration and other soil-atmosphere greenhouse gas flux data. *Global Change Biology*, **2020**, 26, 7268-7283	11.4	22
18	Neither mycorrhizal inoculation nor atmospheric CO concentration has strong effects on pea root production and root loss. *New Phytologist*, **2001**, 149, 283-290	9.8	21
17	Family- and population-level responses to atmospheric CO2 concentration: gas exchange and the allocation of C, N, and biomass in Plantago lanceolata (Plantaginaceae). *American Journal of Botany*, **2001**, 88, 1080-1087	2.7	17
16	ATMOSPHERIC CO2 AND THE COMPOSITION AND FUNCTION OF SOIL MICROBIAL COMMUNITIES **2000**, 10, 47-59		17
15	GAS EXCHANGE, LEAF NITROGEN, AND GROWTH EFFICIENCY OF POPULUS TREMULOIDES IN A CO2-ENRICHED ATMOSPHERE **2000**, 10, 3-17		16
14	ATMOSPHERIC CO2, SOIL-N AVAILABILITY, AND ALLOCATION OF BIOMASS AND NITROGEN BY POPULUS TREMULOIDES **2000**, 10, 34-46		16
13	Effects of structural complexity on within-canopy light environments and leaf traits in a northern mixed deciduous forest. *Tree Physiology*, **2017**, 37, 1426-1435	4.2	15
12	Multivariate Conditional Granger Causality Analysis for Lagged Response of Soil Respiration in a Temperate Forest. *Entropy*, **2013**, 15, 4266-4284	2.8	14
11	Raising the standards for ecological meta-analyses. *New Phytologist*, **2012**, 195, 279-281	9.8	9
10	Coupling Fine-Scale Root and Canopy Structure Using Ground-Based Remote Sensing. *Remote Sensing*, **2017**, 9, 182	5	8
9	Modeling forest carbon cycle response to tree mortality: Effects of plant functional type and disturbance intensity. *Journal of Geophysical Research G: Biogeosciences*, **2015**, 120, 2178-2193	3.7	7
8	Moderate Disturbance Has Similar Effects on Production Regardless of Site Quality and Composition. *Forests*, **2018**, 9, 70	2.8	5
7	Assessing elevated CO responses using meta-analysis. *New Phytologist*, **2003**, 160, 6-7	9.8	5
6	THE META-ANALYSIS OF RESPONSE RATIOS IN EXPERIMENTAL ECOLOGY **1999**, 80, 1150		5
5	Uptake and partitioning of simulated atmospheric N inputs in Populus tremuloides Pinus strobus forest mesocosms. *Botany*, **2011**, 89, 379-386	1.3	3
4	Biosphere tmosphere interactions. *New Phytologist*, **2004**, 162, 4-6	9.8	3

3	Disturbance-accelerated succession increases the production of a temperate forest. *Ecological Applications*, **2021**, 31, e02417	4.9	3
2	The long-term impacts of deer herbivory in determining temperate forest stand and canopy structural complexity. *Journal of Applied Ecology*, **2022**, 59, 812-821	5.8	1
1	Disturbance has variable effects on the structural complexity of a temperate forest landscape. *Ecological Indicators*, **2022**, 140, 109004	5.8	1