Peter E Levy

List of Publications by Year in descending order

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Version: 2024-02-01

79 papers	9,306 citations	94433 37 h-index	66911 78 g-index
104 all docs	104 docs citations	104 times ranked	12114 citing authors

#	Article	IF	Citations
1	Trends in the sources and sinks of carbon dioxide. Nature Geoscience, 2009, 2, 831-836.	12.9	1,746
2	Evaluation of the terrestrial carbon cycle, future plant geography and climateâ€carbon cycle feedbacks using five Dynamic Global Vegetation Models (DGVMs). Global Change Biology, 2008, 14, 2015-2039.	9.5	1,097
3	Evaluation of terrestrial carbon cycle models for their response to climate variability and to <scp><scp>CO₂</scp></scp> trends. Global Change Biology, 2013, 19, 2117-2132.	9.5	617
4	Recent trends and drivers of regional sources and sinks of carbon dioxide. Biogeosciences, 2015, 12, 653-679.	3.3	587
5	The global carbon budget 1959â€“2011. Earth System Science Data, 2013, 5, 165-185.	9.9	527
6	Evidence for a weakening relationship between interannual temperature variability and northern vegetation activity. Nature Communications, 2014, 5, 5018.	12.8	414
7	Effect of 7 yr of experimental drought on vegetation dynamics and biomass storage of an eastern Amazonian rainforest. New Phytologist, 2010, 187, 579-591.	7.3	293
8	Effects of climate and management intensity on nitrous oxide emissions in grassland systems across Europe. Agriculture, Ecosystems and Environment, 2007, 121, 135-152.	5.3	262
9	Integrating plantâ€“soil interactions into global carbon cycle models. Journal of Ecology, 2009, 97, 851-863.	4.0	233
10	Challenges in quantifying biosphereâ€“atmosphere exchange of nitrogen species. Environmental Pollution, 2007, 150, 125-139.	7.5	203
11	Multiple mechanisms of Amazonian forest biomass losses in three dynamic global vegetation models under climate change. New Phytologist, 2010, 187, 647-665.	7.3	189
12	UK land use and soil carbon sequestration. Land Use Policy, 2009, 26, S274-S283.	5.6	187
13	Overriding water table control on managed peatland greenhouse gas emissions. Nature, 2021, 593, 548-552.	27.8	172
14	Uncertainties in the relationship between atmospheric nitrogen deposition and forest carbon sequestration. Global Change Biology, 2008, 14, 2057-2063.	9.5	166
15	Modelling the impact of future changes in climate, CO2 concentration and land use on natural ecosystems and the terrestrial carbon sink. Global Environmental Change, 2004, 14, 21-30.	7.8	134
16	The effect of aqueous transport of CO2 in xylem sap on gas exchange in woody plants. Tree Physiology, 1999, 19, 53-58.	3.1	130
17	Climate change cannot be entirely responsible for soil carbon loss observed in England and Wales, 1978â€“2003. Global Change Biology, 2007, 13, 2605-2609.	9.5	126
18	Quantification of uncertainty in trace gas fluxes measured by the static chamber method. European Journal of Soil Science, 2011, 62, 811-821.	3.9	107

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19	Methane emissions from soils: synthesis and analysis of a large <scp>UK</scp> data set. Global Change Biology, 2012, 18, 1657-1669.	9.5	107
20	The carbon budget of terrestrial ecosystems in East Asia over the last two decades. Biogeosciences, 2012, 9, 3571-3586.	3.3	103
21	Carbon cycle uncertainty in the Alaskan Arctic. Biogeosciences, 2014, 11, 4271-4288.	3.3	92
22	Methane emissions from sheep pasture, measured with an openâ€path eddy covariance system. Global Change Biology, 2011, 17, 3524-3533.	9.5	78
23	The carbon balance of South America: a review of the status, decadal trends and main determinants. Biogeosciences, 2012, 9, 5407-5430.	3.3	78
24	Stem CO2 fluxes in two Sahelian shrub species (Guiera senegalensis and Combretum micranthum). Functional Ecology, 1998, 12, 107-116.	3.6	77
25	Photosynthetic parameters from two contrasting woody vegetation types in West Africa. Plant Ecology, 2007, 192, 277-287.	1.6	66
26	The legacy of enhanced N and S deposition as revealed by the combined analysis of Î´13C, Î´18O and Î´15N in tree rings. Global Change Biology, 2011, 17, 1946-1962.	9.5	66
27	Bulk deposition of organic and inorganic nitrogen in southwest China from 2008 to 2013. Environmental Pollution, 2017, 227, 157-166.	7.5	63
28	The dry season intensity as a key driver of NPP trends. Geophysical Research Letters, 2016, 43, 2632-2639.	4.0	60
29	Infilled Ditches are Hotspots of Landscape Methane Flux Following Peatland Re-wetting. Ecosystems, 2014, 17, 1227-1241.	3.4	57
30	Simulation of fluxes of greenhouse gases from European grasslands using the DNDC model. Agriculture, Ecosystems and Environment, 2007, 121, 186-192.	5.3	54
31	Spatial variability and hotspots of soil N₂O fluxes from intensively grazed grassland. Biogeosciences, 2015, 12, 1585-1596.	3.3	54
32	African tropical rainforest net carbon dioxide fluxes in the twentieth century. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120376.	4.0	49
33	Completing the FACE of elevated CO2 research. Environment International, 2014, 73, 252-258.	10.0	49
34	Benchmarking the seasonal cycle of CO₂ fluxes simulated by terrestrial ecosystem models. Global Biogeochemical Cycles, 2015, 29, 46-64.	4.9	48
35	The nitrogen, carbon and greenhouse gas budget of a grazed, cut and fertilised temperate grassland. Biogeosciences, 2017, 14, 2069-2088.	3.3	48
36	?The Influence of Land Use Change On Global-Scale Fluxes of Carbon from Terrestrial Ecosystems?. Climatic Change, 2004, 67, 185-209.	3.6	47

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37	Estimation of cumulative fluxes of nitrous oxide: uncertainty in temporal upscaling and emission factors. European Journal of Soil Science, 2017, 68, 400-411.	3.9	41
38	An improved method for measuring soil <scp>N₂O</scp> fluxes using a quantum cascade laser with a dynamic chamber. European Journal of Soil Science, 2014, 65, 643-652.	3.9	39
39	Methane indicator values for peatlands: a comparison of species and functional groups. Global Change Biology, 2013, 19, 1141-1150.	9.5	35
40	Fate of N in a peatland, Whim bog: immobilisation in the vegetation and peat, leakage into pore water and losses as N₂O depend on the form of N. Biogeosciences, 2013, 10, 149-160.	3.3	32
41	The impact of ploughing intensively managed temperate grasslands on N2O, CH4 and CO2 fluxes. Plant and Soil, 2017, 411, 193-208.	3.7	31
42	Investigating uptake of N₂O in agricultural soils using a high-precision dynamic chamber method. Atmospheric Measurement Techniques, 2014, 7, 4455-4462.	3.1	30
43	Greenhouse gas balance of a semi-natural peatbog in northern Scotland. Environmental Research Letters, 2015, 10, 094019.	5.2	30
44	Nitrous oxide emission factors of mineral fertilisers in the UK and Ireland: A Bayesian analysis of 20Âyears of experimental data. Environment International, 2020, 135, 105366.	10.0	30
45	Alkaline air: changing perspectives on nitrogen and air pollution in an ammonia-rich world. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190315.	3.4	30
46	An evaluation of four years of nitrous oxide fluxes after application of ammonium nitrate and urea fertilisers measured using the eddy covariance method. Agricultural and Forest Meteorology, 2020, 280, 107812.	4.8	28
47	The influence of tillage on N₂O fluxes from an intensively managed grazed grassland in Scotland. Biogeosciences, 2016, 13, 4811-4821.	3.3	26
48	Multicriteria evaluation of discharge simulation in Dynamic Global Vegetation Models. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7488-7505.	3.3	25
49	Application of Bayesian statistics to estimate nitrous oxide emission factors of three nitrogen fertilisers on UK grasslands. Environment International, 2019, 128, 362-370.	10.0	23
50	Growing season CH₄ and N₂O fluxes from a subarctic landscape in northern Finland; from chamber to landscape scale. Biogeosciences, 2017, 14, 799-815.	3.3	22
51	Quantifying gross vs. net agricultural land use change in Great Britain using the Integrated Administration and Control System. Science of the Total Environment, 2018, 628-629, 1234-1248.	8.0	22
52	The Effect of Nitrogen Enrichment on the Carbon Sink in Coniferous Forests: Uncertainty and Sensitivity Analyses of Three Ecosystem Models. Water, Air and Soil Pollution, 2004, 4, 67-74.	0.8	21
53	The tree-crop interface: representation by coupling of forest and crop process-models. Agroforestry Systems, 1995, 30, 199-221.	2.0	20
54	Inference of spatial heterogeneity in surface fluxes from eddy covariance data: A case study from a subarctic mire ecosystem. Agricultural and Forest Meteorology, 2020, 280, 107783.	4.8	17

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55	Trade-offs between seedling growth, thinning and stand stability in Sitka spruce stands: a modelling analysis. Forest Ecology and Management, 2004, 187, 105-115.	3.2	14
56	Ambient concentrations and deposition rates of selected reactive nitrogen species and their contribution to PM2.5 aerosols at three locations with contrasting land use in southwest China. Environmental Pollution, 2018, 233, 1164-1176.	7.5	14
57	Quantifying the UK's carbon dioxide flux: an atmospheric inverse modelling approach using a regional measurement network. Atmospheric Chemistry and Physics, 2019, 19, 4345-4365.	4.9	14
58	Nitrogen use efficiency and N₂O and NH₃ losses attributed to three fertiliser types applied to an intensively managed silage crop. Biogeosciences, 2019, 16, 4731-4745.	3.3	14
59	The recovery of Sphagnum capillifolium following exposure to temperatures of simulatedmoorland fires: a glasshouse experiment. Plant Ecology and Diversity, 2017, 10, 77-88.	2.4	13
60	Response of a peat bog vegetation community to longâ€term experimental addition of nitrogen. Journal of Ecology, 2019, 107, 1167-1186.	4.0	13
61	The impact of atmospheric N deposition and N fertilizer type on soil nitric oxide and nitrous oxide fluxes from agricultural and forest Eutric Regosols. Biology and Fertility of Soils, 2020, 56, 1077-1090.	4.3	13
62	Testing a process-based model of tree seedling growth by manipulating [CO2] and nutrient uptake. Tree Physiology, 2000, 20, 993-1005.	3.1	11
63	Understanding spatial variability of methane fluxes in Arctic wetlands through footprint modelling. Environmental Research Letters, 2019, 14, 125010.	5.2	11
64	Assessing tree seedling vitality tests using sensitivity analysis of a process-based growth model. Forest Ecology and Management, 2003, 183, 77-93.	3.2	10
65	Nitrous oxide emission sources from a mixed livestock farm. Agriculture, Ecosystems and Environment, 2017, 243, 92-102.	5.3	10
66	Nitrous oxide emissions from a peatbog after 13Âyears of experimental nitrogen deposition. Biogeosciences, 2017, 14, 5753-5764.	3.3	10
67	Seasonal fluxes of carbon monoxide from an intensively grazed grassland in Scotland. Atmospheric Environment, 2018, 194, 170-178.	4.1	10
68	Correcting errors from spatial upscaling of nonlinear greenhouse gas flux models. Environmental Modelling and Software, 2017, 94, 157-165.	4.5	9
69	Linking Nitrous Oxide and Nitric Oxide Fluxes to Microbial Communities in Tropical Forest Soils and Oil Palm Plantations in Malaysia in Laboratory Incubations. Frontiers in Forests and Global Change, 2020, 3, .	2.3	9
70	Comparison of greenhouse gas fluxes from tropical forests and oil palm plantations on mineral soil. Biogeosciences, 2021, 18, 1559-1575.	3.3	9
71	Agricultural soils: A sink or source of methane across the <scp>British Isles</scp>?. European Journal of Soil Science, 2021, 72, 1842-1862.	3.9	8
72	A model-data fusion approach to analyse carbon dynamics in managed grasslands. Agricultural Systems, 2020, 184, 102907.	6.1	7

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73	Peatland Wildfire Severity and Post-fire Gaseous Carbon Fluxes. Ecosystems, 2021, 24, 713-725.	3.4	7
74	The Terrestrial Biosphere Model Farm. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	5
75	Quantifying fossil fuel methane emissions using observations of atmospheric ethane and an uncertain emission ratio. Atmospheric Chemistry and Physics, 2022, 22, 3911-3929.	4.9	4
76	Estimation of gross land-use change and its uncertainty using a Bayesian data assimilation approach. Biogeosciences, 2018, 15, 1497-1513.	3.3	3
77	Methane flux measurements along a floodplain soil moisture gradient in the Okavango Delta, Botswana. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200448.	3.4	3
78	Challenges in scaling up greenhouse gas fluxes: Experience from the UK Greenhouse Gas Emissions and Feedbacks Programme. Journal of Geophysical Research G: Biogeosciences, 0, , .	3.0	3
79	The effect of nitrogen enrichment on the carbon sink in coniferous forests: Uncertainty and sensitivity analyses of three ecosystem models. Water, Air and Soil Pollution, 2005, 4, 67-74.	0.8	2