Peter E Levy

List of Publications by Year in descending order

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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	The Terrestrial Biosphere Model Farm. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	5
2	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
3	Peatland Wildfire Severity and Post-fire Gaseous Carbon Fluxes. Ecosystems, 2021, 24, 713-725.	3.4	7
4	Comparison of greenhouse gas fluxes from tropical forests and oil palm plantations on mineral soil. Biogeosciences, 2021, 18, 1559-1575.	3.3	9
5	Overriding water table control on managed peatland greenhouse gas emissions. Nature, 2021, 593, 548-552.	27.8	172
6	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
7	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
8	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
9	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
10	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
11	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
12	A model-data fusion approach to analyse carbon dynamics in managed grasslands. Agricultural Systems, 2020, 184, 102907.	6.1	7
13	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
14	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
15	Understanding spatial variability of methane fluxes in Arctic wetlands through footprint modelling. Environmental Research Letters, 2019, 14, 125010.	5.2	11
16	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
17	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
18	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

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19	Response of a peat bog vegetation community to longâ€term experimental addition of nitrogen. Journal of Ecology, 2019, 107, 1167-1186.	4.0	13
20	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
21	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
22	Seasonal fluxes of carbon monoxide from an intensively grazed grassland in Scotland. Atmospheric Environment, 2018, 194, 170-178.	4.1	10
23	Estimation of gross land-use change and its uncertainty using a Bayesian data assimilation approach. Biogeosciences, 2018, 15, 1497-1513.	3.3	3
24	The impact of ploughing intensively managed temperate grasslands on N2O, CH4 and CO2 fluxes. Plant and Soil, 2017, 411, 193-208.	3.7	31
25	Nitrous oxide emission sources from a mixed livestock farm. Agriculture, Ecosystems and Environment, 2017, 243, 92-102.	5.3	10
26	Correcting errors from spatial upscaling of nonlinear greenhouse gas flux models. Environmental Modelling and Software, 2017, 94, 157-165.	4.5	9
27	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
28	Bulk deposition of organic and inorganic nitrogen in southwest China from 2008 to 2013. Environmental Pollution, 2017, 227, 157-166.	7.5	63
29	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
30	Nitrous oxide emissions from a peatbog after 13Âyears of experimental nitrogen deposition. Biogeosciences, 2017, 14, 5753-5764.	3.3	10
31	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
32	The nitrogen, carbon and greenhouse gas budget of a grazed, cut and fertilised temperate grassland. Biogeosciences, 2017, 14, 2069-2088.	3.3	48
33	The influence of tillage on N₂O fluxes from an intensively managed grazed grassland in Scotland. Biogeosciences, 2016, 13, 4811-4821.	3.3	26
34	The dry season intensity as a key driver of NPP trends. Geophysical Research Letters, 2016, 43, 2632-2639.	4.0	60
35	Multicriteria evaluation of discharge simulation in Dynamic Global Vegetation Models. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7488-7505.	3.3	25
36	Recent trends and drivers of regional sources and sinks of carbon dioxide. Biogeosciences, 2015, 12, 653-679.	3.3	587

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37	Spatial variability and hotspots of soil N₂O fluxes from intensively grazed grassland. Biogeosciences, 2015, 12, 1585-1596.	3.3	54
38	Benchmarking the seasonal cycle of CO₂ fluxes simulated by terrestrial ecosystem models. Global Biogeochemical Cycles, 2015, 29, 46-64.	4.9	48
39	Greenhouse gas balance of a semi-natural peatbog in northern Scotland. Environmental Research Letters, 2015, 10, 094019.	5.2	30
40	Carbon cycle uncertainty in the Alaskan Arctic. Biogeosciences, 2014, 11, 4271-4288.	3.3	92
41	Infilled Ditches are Hotspots of Landscape Methane Flux Following Peatland Re-wetting. Ecosystems, 2014, 17, 1227-1241.	3.4	57
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	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
44	Evidence for a weakening relationship between interannual temperature variability and northern vegetation activity. Nature Communications, 2014, 5, 5018.	12.8	414
45	Completing the FACE of elevated CO2 research. Environment International, 2014, 73, 252-258.	10.0	49
46	Methane indicator values for peatlands: a comparison of species and functional groups. Global Change Biology, 2013, 19, 1141-1150.	9.5	35
47	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
48	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
49	The global carbon budget 1959â€“2011. Earth System Science Data, 2013, 5, 165-185.	9.9	527
50	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
51	The carbon balance of South America: a review of the status, decadal trends and main determinants. Biogeosciences, 2012, 9, 5407-5430.	3.3	78
52	The carbon budget of terrestrial ecosystems in East Asia over the last two decades. Biogeosciences, 2012, 9, 3571-3586.	3.3	103
53	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
54	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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55	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
56	Methane emissions from sheep pasture, measured with an openâ€path eddy covariance system. Global Change Biology, 2011, 17, 3524-3533.	9.5	78
57	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
58	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
59	Integrating plantâ€“soil interactions into global carbon cycle models. Journal of Ecology, 2009, 97, 851-863.	4.0	233
60	Trends in the sources and sinks of carbon dioxide. Nature Geoscience, 2009, 2, 831-836.	12.9	1,746
61	UK land use and soil carbon sequestration. Land Use Policy, 2009, 26, S274-S283.	5.6	187
62	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
63	Uncertainties in the relationship between atmospheric nitrogen deposition and forest carbon sequestration. Global Change Biology, 2008, 14, 2057-2063.	9.5	166
64	Challenges in quantifying biosphereâ€“atmosphere exchange of nitrogen species. Environmental Pollution, 2007, 150, 125-139.	7.5	203
65	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
66	Simulation of fluxes of greenhouse gases from European grasslands using the DNDC model. Agriculture, Ecosystems and Environment, 2007, 121, 186-192.	5.3	54
67	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
68	Photosynthetic parameters from two contrasting woody vegetation types in West Africa. Plant Ecology, 2007, 192, 277-287.	1.6	66
69	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
70	?The Influence of Land Use Change On Global-Scale Fluxes of Carbon from Terrestrial Ecosystems?. Climatic Change, 2004, 67, 185-209.	3.6	47
71	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
72	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

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73	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
74	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
75	Testing a process-based model of tree seedling growth by manipulating [CO2] and nutrient uptake. Tree Physiology, 2000, 20, 993-1005.	3.1	11
76	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
77	Stem CO2 fluxes in two Sahelian shrub species (Guiera senegalensis and Combretum micranthum). Functional Ecology, 1998, 12, 107-116.	3.6	77
78	The tree-crop interface: representation by coupling of forest and crop process-models. Agroforestry Systems, 1995, 30, 199-221.	2.0	20
79	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