Mhairi Coyle

List of Publications by Year
in descending order

48 papers	5,207 citations	201674 27 h-index	243625 44 g-index
59 all docs	59 docs citations	59 times ranked	7022 citing authors

#	Article	IF	Citations
1	The global nitrogen cycle in the twenty-first century. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130164.	4.0	1,114
2	Tropospheric ozone and its precursors from the urban to the global scale from air quality to short-lived climate forcer. Atmospheric Chemistry and Physics, 2015, 15, 8889-8973.	4.9	942
3	Atmospheric composition change: Ecosystemsâ€“Atmosphere interactions. Atmospheric Environment, 2009, 43, 5193-5267.	4.1	609
4	The Global Exposure of Forests to Air Pollutants. Water, Air, and Soil Pollution, 1999, 116, 5-32.	2.4	243
5	Regional estimation of pollutant gas dry deposition in the UK: model description, sensitivity analyses and outputs. Atmospheric Environment, 2000, 34, 3757-3777.	4.1	224
6	Overriding water table control on managed peatland greenhouse gas emissions. Nature, 2021, 593, 548-552.	27.8	172
7	Effects of global change during the 21st century on the nitrogen cycle. Atmospheric Chemistry and Physics, 2015, 15, 13849-13893.	4.9	168
8	The mass budget of atmospheric ammonia in woodland within 1 km of livestock buildings. Environmental Pollution, 1998, 102, 343-348.	7.5	133
9	Title is missing!. Water, Air, and Soil Pollution, 2001, 130, 63-74.	2.4	132
10	The atmospheric lifetime of black carbon. Atmospheric Environment, 2012, 59, 256-263.	4.1	117
11	The atmospheric budget of oxidized nitrogen and its role in ozone formation and deposition. New Phytologist, 1998, 139, 11-23.	7.3	104
12	Quantifying the spatial distribution of surface ozone concentration in the UK. Atmospheric Environment, 2002, 36, 1013-1024.	4.1	88
13	A chronology of global air quality. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190314.	3.4	87
14	Dry Deposition of Ozone Over Land: Processes, Measurement, and Modeling. Reviews of Geophysics, 2020, 58, e2019RG000670.	23.0	86
15	Effects of land use on surfaceâ€“atmosphere exchanges of trace gases and energy in Borneo: comparing fluxes over oil palm plantations and a rainforest. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 3196-3209.	4.0	78
16	Drivers of long-term variability in CO₂ net ecosystem exchange in a temperate peatland. Biogeosciences, 2015, 12, 1799-1811.	3.3	75
17	Modelling photochemical oxidant formation, transport, deposition and exposure of terrestrial ecosystems. Environmental Pollution, 1999, 100, 43-55.	7.5	66
18	Title is missing!. Plant and Soil, 2001, 228, 117-129.	3.7	65

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19	New Directions: Implications of increasing tropospheric background ozone concentrations for vegetation. Atmospheric Environment, 2003, 37, 153-154.	4.1	65
20	Regional mass budgets of oxidized and reduced nitrogen and their relative contribution to the nitrogen inputs of sensitive ecosystems. Environmental Pollution, 1998, 102, 337-342.	7.5	57
21	Tropospheric Ozone Assessment Report. Elementa, 2020, 8, .	3.2	52
22	Measurements of ozone deposition to a potato canopy. Agricultural and Forest Meteorology, 2009, 149, 655-666.	4.8	50
23	The nitrogen, carbon and greenhouse gas budget of a grazed, cut and fertilised temperate grassland. Biogeosciences, 2017, 14, 2069-2088.	3.3	48
24	Sources of uncertainty in eddy covariance ozone flux measurements made by dry chemiluminescence fast response analysers. Atmospheric Measurement Techniques, 2010, 3, 163-176.	3.1	47
25	An evaluation of measurement methods for organic, elemental and black carbon in ambient air monitoring sites. Atmospheric Environment, 2009, 43, 5085-5091.	4.1	39
26	Water soluble aerosols and gases at a UK background site â€“ Part 1: Controls of PM_{2.5} and PM₁₀ aerosol composition. Atmospheric Chemistry and Physics, 2015, 15, 8131-8145.	4.9	38
27	Title is missing!. Water, Air and Soil Pollution, 2001, 1, 39-48.	0.8	32
28	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
29	N-fixation in legumes â€“ An assessment of the potential threat posed by ozone pollution. Environmental Pollution, 2016, 208, 909-918.	7.5	24
30	Comparison of ozone fluxes over grassland by gradient and eddy covariance technique. Atmospheric Science Letters, 2009, 10, 164-169.	1.9	21
31	Effects of ozone on species composition in an upland grassland. Oecologia, 2012, 168, 1137-1146.	2.0	21
32	Consistent ozone-induced decreases in pasture forage quality across several grassland types and consequences for UK lamb production. Science of the Total Environment, 2016, 543, 336-346.	8.0	20
33	Characterization of ozone deposition to a mixed oakâ€“hornbeam forest â€“ flux measurements at five levels above and inside the canopy and their interactions with nitric oxide. Atmospheric Chemistry and Physics, 2018, 18, 17945-17961.	4.9	19
34	Quantifying the fine scale (1km ï¿½ 1km) exposure and effects of ozone. Part 1. Methodology and application for effects on forests. Water, Air, and Soil Pollution, 1995, 85, 1479-1484.	2.4	16
35	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
36	Model inter-comparison between statistical and dynamic model assessments of the long-term stability of blanket peat in Great Britain (1940â€“2099). Climate Research, 2010, 45, 227-248.	1.1	12

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37	Seasonal fluxes of carbon monoxide from an intensively grazed grassland in Scotland. Atmospheric Environment, 2018, 194, 170-178.	4.1	10
38	The Global Exposure of Forests to Air Pollutants. , 1999, , 5-32.		10
39	Regional and hemispheric influences on measured spring peroxyacetyl nitrate (PAN) mixing ratios at the Auchencorth UK EMEP supersite. Atmospheric Research, 2016, 174-175, 135-141.	4.1	9
40	A Site-Specific Analysis of the Implications of a Changing Ozone Profile and Climate for Stomatal Ozone Fluxes in Europe. Water, Air, and Soil Pollution, 2019, 230, 1.	2.4	9
41	An ozone budget for the UK: using measurements from the national ozone monitoring network; measured and modelled meteorological data, and a â€˜big-leafâ€™ resistance analogy model of dry deposition. Environmental Pollution, 2003, 123, 115-123.	7.5	8
42	Ammonia Emission and Deposition in Scotland and Its Potential Environmental Impacts. Scientific World Journal, The, 2004, 4, 795-810.	2.1	7
43	Neural Network Analysis to Evaluate Ozone Damage to Vegetation Under Different Climatic Conditions. Frontiers in Forests and Global Change, 2020, 3, .	2.3	6
44	Meteorological measurements at Auchencorth Moss from 1995 to 2016. Geoscience Data Journal, 2019, 6, 16-29.	4.4	4
45	The Atmospheric Nitrogen Cycle and the Role of Anthropogenic Activity. , 1999, , 121-138.		2
46	Regional mass budgets of oxidized and reduced nitrogen and their relative contribution to the nitrogen inputs of sensitive ecosystems. , 1998, , 337-342.		1
47	Net carbon dioxide emissions from an eroding Atlantic blanket bog. Biogeochemistry, 2022, 159, 233-250.	3.5	1
48	The mass budget of atmospheric ammonia in woodland within 1 km of livestock buildings. , 1998, , 343-348.		0