Euan G Nisbet

List of Publications by Year
in descending order

98 papers	7,186 citations	76196 40 h-index	58464 82 g-index
109 all docs	109 docs citations	109 times ranked	7201 citing authors

#	Article	IF	Citations
1	The habitat and nature of early life. Nature, 2001, 409, 1083-1091.	13.7	787
2	Global atmospheric methane: budget, changes and dangers. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 2058-2072.	1.6	510
3	Methane on the Riseâ€"Again. Science, 2014, 343, 493-495.	6.0	457
4	Escape of methane gas from the seabed along the West Spitsbergen continental margin. Geophysical Research Letters, 2009, 36, .	1.5	406
5	Very Strong Atmospheric Methane Growth in the 4ÂYears 2014â€"2017: Implications for the Paris Agreement. Global Biogeochemical Cycles, 2019, 33, 318-342.	1.9	353
6	Emergence of a Habitable Planet. Space Science Reviews, 2007, 129, 35-78.	3.7	334
7	Rising atmospheric methane: 2007â€"2014 growth and isotopic shift. Global Biogeochemical Cycles, 2016, 30, 1356-1370.	1.9	317
8	A dramatic decrease in the growth rate of atmospheric methane in the northern hemisphere during 1992. Geophysical Research Letters, 1994, 21, 45-48.	1.5	203
9	Top-Down Versus Bottom-Up. Science, 2010, 328, 1241-1243.	6.0	164
10	Methane Mitigation: Methods to Reduce Emissions, on the Path to the Paris Agreement. Reviews of Geophysics, 2020, 58, e2019RG000675.	9.0	163
11	The end of the ice age. Canadian Journal of Earth Sciences, 1990, 27, 148-157.	0.6	150
12	Emission of methane from plants. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 1347-1354.	1.2	149
13	Giant submarine landslides. Nature, 1998, 392, 329-330.	13.7	142
14	Concentration and13C records of atmospheric methane in New Zealand and Antarctica: Evidence for changes in methane sources. Journal of Geophysical Research, 1994, 99, 16913.	3.3	126
15	Inverse modeling of European CH₄ emissions 2001â€"2006. Journal of Geophysical Research, 2010, 115, .	3.3	120
16	Arctic methane sources: Isotopic evidence for atmospheric inputs. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	119
17	Origins of photosynthesis. Nature, 1995, 373, 479-480.	13.7	112
18	The age of Rubisco: the evolution of oxygenic photosynthesis. Geobiology, 2007, 5, 311-335.	1.1	111

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19	High-precision, automated stable isotope analysis of atmospheric methane and carbon dioxide using continuous-flow isotope-ratio mass spectrometry. Rapid Communications in Mass Spectrometry, 2006, 20, 200-208.	0.7	102
20	Impact of a hydrogen economy on the stratosphere and troposphere studied in a 2-D model. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	98
21	London methane emissions: Use of diurnal changes in concentration and Î´13C to identify urban sources and verify inventories. Journal of Geophysical Research, 2001, 106, 7427-7448.	3.3	90
22	Archaean metabolic evolution of microbial mats. Proceedings of the Royal Society B: Biological Sciences, 1999, 266, 2375-2382.	1.2	83
23	Methane emissions in East Asia for 2000â€“2011 estimated using an atmospheric Bayesian inversion. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4352-4369.	1.2	82
24	In situ observations of the isotopic composition of methane at the Cabauw tall tower site. Atmospheric Chemistry and Physics, 2016, 16, 10469-10487.	1.9	77
25	Extensive release of methane from Arctic seabed west of Svalbard during summer 2014 does not influence the atmosphere. Geophysical Research Letters, 2016, 43, 4624-4631.	1.5	74
26	Advancing Scientific Understanding of the Global Methane Budget in Support of the Paris Agreement. Global Biogeochemical Cycles, 2019, 33, 1475-1512.	1.9	73
27	Atmospheric constraints on the methane emissions from the East Siberian Shelf. Atmospheric Chemistry and Physics, 2016, 16, 4147-4157.	1.9	69
28	Plume mapping and isotopic characterisation of anthropogenic methane sources. Atmospheric Environment, 2015, 110, 151-162.	1.9	62
29	Some northern sources of atmospheric methane: production, history, and future implications. Canadian Journal of Earth Sciences, 1989, 26, 1603-1611.	0.6	58
30	Have sudden large releases of methane from geological reservoirs occurred since the Last Glacial Maximum, and could such releases occur again?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2002, 360, 581-607.	1.6	53
31	Measurement of the ¹³C isotopic signature of methane emissions from northern European wetlands. Global Biogeochemical Cycles, 2017, 31, 605-623.	1.9	52
32	Quantification of methane emissions from UK biogas plants. Waste Management, 2021, 124, 82-93.	3.7	51
33	Some liked it hot. Nature, 1996, 382, 404-405.	13.7	50
34	Sources of atmospheric CH₄ in early postglacial time. Journal of Geophysical Research, 1992, 97, 12859-12867.	3.3	48
35	The realms of Archaean life. Nature, 2000, 405, 625-626.	13.7	48
36	The impact of meteorology on the interannual growth rate of atmospheric methane. Geophysical Research Letters, 2002, 29, 8-1-8-4.	1.5	48

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37	Cinderella science. Nature, 2007, 450, 789-790.	13.7	47
38	Variability in Atmospheric Methane From Fossil Fuel and Microbial Sources Over the Last Three Decades. Geophysical Research Letters, 2018, 45, 11,499.	1.5	46
39	Carbon isotopic signature of coal-derived methane emissions to the atmosphere: from coalification to alteration. Atmospheric Chemistry and Physics, 2016, 16, 13669-13680.	1.9	45
40	Evaluating methane inventories by isotopic analysis in the London region. Scientific Reports, 2017, 7, 4854.	1.6	44
41	First continuous measurements of CO2 mixing ratio in central London using a compact diffusion probe. Atmospheric Environment, 2008, 42, 8943-8953.	1.9	43
42	Real-time analysis of <i>Î´</i>¹³C- and <i>Î´</i>D-CH₄ in ambient air with laser spectroscopy: method development and first intercomparison results. Atmospheric Measurement Techniques, 2016, 9, 263-280.	1.2	43
43	Methane emissions from oil and gas platforms in the North Sea. Atmospheric Chemistry and Physics, 2019, 19, 9787-9796.	1.9	42
44	Archaean stromatolites from the Steep Rock Group, northwestern Ontario, Canada. Canadian Journal of Earth Sciences, 1985, 22, 792-799.	0.6	40
45	Methane and carbon dioxide fluxes and their regional scalability for the European Arctic wetlands during the MAMM project in summer 2012. Atmospheric Chemistry and Physics, 2014, 14, 13159-13174.	1.9	39
46	Isotopic Ratios of Tropical Methane Emissions by Atmospheric Measurement. Global Biogeochemical Cycles, 2017, 31, 1408-1419.	1.9	35
47	Creating Habitable Zones, at all Scales, from Planets to Mud Micro-Habitats, on Earth and on Mars. Space Science Reviews, 2007, 129, 79-121.	3.7	34
48	Using <i>Î´</i>¹³C-CH₄ and <i>Î´</i>D-CH₄ to constrain Arctic methane emissions. Atmospheric Chemistry and Physics, 2016, 16, 14891-14908.	1.9	34
49	Can diamonds be dead bacteria?. Nature, 1994, 367, 694-694.	13.7	32
50	Environmental baseline monitoring for shale gas development in the UK: Identification and geochemical characterisation of local source emissions of methane to atmosphere. Science of the Total Environment, 2020, 708, 134600.	3.9	32
51	Shifting Gear, Quickly. Science, 2009, 324, 477-478.	6.0	31
52	Stable carbon isotope signatures of methane from a Finnish subarctic wetland. Tellus, Series B: Chemical and Physical Meteorology, 2022, 64, 18818.	0.8	31
53	Diurnal, seasonal, and annual trends in atmospheric CO2 at southwest London during 2000â€“2012: Wind sector analysis and comparison with Mace Head, Ireland. Atmospheric Environment, 2015, 105, 138-147.	1.9	31
54	Interlaboratory comparison of <i>Î´</i>¹³C and <i>Î´</i>D measurements of atmospheric CH₄ for combined use of data sets from different laboratories. Atmospheric Measurement Techniques, 2018, 11, 1207-1231.	1.2	31

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55	Methane, oxygen, photosynthesis, rubisco and the regulation of the air through time. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 2745-2754.	1.8	30
56	Atmospheric Sampling on Ascension Island Using Multirotor UAVs. Sensors, 2017, 17, 1189.	2.1	29
57	Estimating the size of a methane emission point source at different scales: from local to landscape. Atmospheric Chemistry and Physics, 2017, 17, 7839-7851.	1.9	27
58	Kick-starting ancient warming. Nature Geoscience, 2009, 2, 156-159.	5.4	26
59	Assessing Connectivity Between an Overlying Aquifer and a Coal Seam Gas Resource Using Methane Isotopes, Dissolved Organic Carbon and Tritium. Scientific Reports, 2015, 5, 15996.	1.6	26
60	What do we know about the global methane budget? Results from four decades of atmospheric CH₄observations and the way forward. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200440.	1.6	23
61	The evolution of the atmosphere in the Archaean and early Proterozoic. Science Bulletin, 2011, 56, 4-13.	1.7	22
62	Measurements of Î´¹³C in CH₄ and using particle dispersion modeling to characterize sources of Arctic methane within an air mass. Journal of Geophysical Research D: Atmospheres, 2016, 121, 14257-14270.	1.2	22
63	A cautionary tale: A study of a methane enhancement over the North Sea. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7630-7645.	1.2	22
64	Could methane produced by sauropod dinosaurs have helped drive Mesozoic climate warmth?. Current Biology, 2012, 22, R292-R293.	1.8	21
65	Early life signatures in sulfur and carbon isotopes from Isua, Barberton, Wabigoon (Steep Rock), and Belingwe Greenstone Belts (3.8 to 2.7 Ga). , 2006, , .		19
66	The Eons of Chaos and Hades. Solid Earth, 2010, 1, 1-3.	1.2	19
67	Petrography and stable isotope ratios from Archaean stromatolites, Mushandike Formation, Zimbabwe. Precambrian Research, 1985, 27, 385-398.	1.2	18
68	Anthropogenic methane plume detection from point sources in the Paris megacity area and characterization of their Î´13C signature. Atmospheric Environment, 2020, 222, 117055.	1.9	17
69	Airborne measurements of fire emission factors for African biomass burning sampled during the MOYA campaign. Atmospheric Chemistry and Physics, 2020, 20, 15443-15459.	1.9	17
70	Atmospheric methane and nitrous oxide: challenges alongthe path to Net Zero. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200457.	1.6	16
71	Nomenclature for life. Nature, 1996, 380, 291-291.	13.7	15
72	Methane mole fraction and Î´¹³C above and below the trade wind inversion at Ascension Island in air sampled by aerial robotics. Geophysical Research Letters, 2016, 43, 11,893.	1.5	14

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73	Isotopic signatures of major methane sources in the coal seam gas fields and adjacent agricultural districts, Queensland, Australia. Atmospheric Chemistry and Physics, 2021, 21, 10527-10555.	1.9	14
74	Large Methane Emission Fluxes Observed From Tropical Wetlands in Zambia. Global Biogeochemical Cycles, 2022, 36, .	1.9	14
75	Methane emissions in Kuwait: Plume identification, isotopic characterisation and inventory verification. Atmospheric Environment, 2022, 268, 118763.	1.9	13
76	Greenhouse gases in the Earth system: setting the agenda to 2030. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 1885-1890.	1.6	12
77	Marked long-term decline in ambient CO mixing ratio in SE England, 1997â€“2014: evidence of policy success in improving air quality. Scientific Reports, 2016, 6, 25661.	1.6	11
78	Flow rate and source reservoir identification from airborne chemical sampling of the uncontrolled Elgin platform gas release. Atmospheric Measurement Techniques, 2018, 11, 1725-1739.	1.2	11
79	Carbon isotopic characterisation and oxidation of UK landfill methane emissions by atmospheric measurements. Waste Management, 2021, 132, 162-175.	3.7	11
80	Is the destruction or removal of atmospheric methane a worthwhile option?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210108.	1.6	10
81	The Origin of Bl Zones in Komatiite Flows. Journal of Petrology, 1997, 38, 1565-1584.	1.1	8
82	Street-level methane emissions of Bucharest, Romania and the dominance of urban wastewater.. Atmospheric Environment: X, 2022, 13, 100153.	0.8	8
83	<i>Î´</i> ¹³ C methane source signatures from tropical wetland and rice field emissions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20200449.	1.6	8
84	Buds from the tree of life: linking compartmentalized prokaryotes and eukaryotes by a non-hyperthermophile common ancestor and implications for understanding Archaean microbial communities. International Journal of Astrobiology, 2004, 3, 183-187.	0.9	7
85	Stable isotopic signatures of methane from waste sources through atmospheric measurements. Atmospheric Environment, 2022, 276, 119021.	1.9	7
86	Isotopic signatures of methane emissions from tropical fires, agriculture and wetlands: the MOYA and ZWAMPS flights. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210112.	1.6	6
87	Rising methane: is there a methane emergency?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210334.	1.6	6
88	Identification of Potential Methane Source Regions in Europe Using Î´ 13 C CH4 Measurements and Trajectory Modeling. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033963.	1.2	5
89	Automatic Path Generation for Multirotor Descents Through Varying Air Masses above Ascension Island. , 2016, , .		4
90	Are the Fenno-Scandinavian Arctic Wetlands a Significant Regional Source of Formic Acid?. Atmosphere, 2017, 8, 112.	1.0	4

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91	Diurnal, seasonal, and annual trends in tropospheric CO in Southwest London during 2000â€“2015: Wind sector analysis and comparisons with urban and remote sites. Atmospheric Environment, 2018, 177, 262-274.	1.9	3
92	Orogins of photosynthesis. Nature, 1995, 376, 26-27.	13.7	2
93	The urgent need to cut methane emissions. National Science Review, 2022, 9, nwab221.	4.6	2
94	Airborne quantification of net methane and carbon dioxide fluxes from European Arctic wetlands in Summer 2019. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210192.	1.6	2
95	More than dinomania. Nature, 1993, 365, 587-587.	13.7	1
96	Local attitudes. Nature, 1996, 383, 40-40.	13.7	0
97	Heavenly phenomena. Nature, 2001, 410, 635-635.	13.7	0
98	Rising methane: is warming feeding warming?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200459.	1.6	0