Mark A Sutton

List of Publications by Year
in descending order

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65 papers	8,635 citations	126907 33 h-index	155660 55 g-index
81 all docs	81 docs citations	81 times ranked	10730 citing authors

#	Article	IF	Citations
1	How a century of ammonia synthesis changed the world. Nature Geoscience, 2008, 1, 636-639.	12.9	2,909
2	Too much of a good thing. Nature, 2011, 472, 159-161.	27.8	810
3	Ammonia: emission, atmospheric transport and deposition. New Phytologist, 1998, 139, 27-48.	7.3	489
4	Dissolved carbon leaching from soil is a crucial component of the net ecosystem carbon balance. Global Change Biology, 2011, 17, 1167-1185.	9.5	374
5	Towards a climate-dependent paradigm of ammonia emission and deposition. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130166.	4.0	328
6	Ammonia in the environment: From ancient times to the present. Environmental Pollution, 2008, 156, 583-604.	7.5	289
7	Costs and Benefits of Nitrogen for Europe and Implications for Mitigation. Environmental Science & Technology, 2013, 47, 3571-3579.	10.0	242
8	A two-layer canopy compensation point model for describing bi-directional biosphere-atmosphere exchange of ammonia. Quarterly Journal of the Royal Meteorological Society, 2001, 127, 815-833.	2.7	210
9	Abating ammonia is more cost-effective than nitrogen oxides for mitigating PM _{2.5} air pollution. Science, 2021, 374, 758-762.	12.6	191
10	Uncertainties in the relationship between atmospheric nitrogen deposition and forest carbon sequestration. Global Change Biology, 2008, 14, 2057-2063.	9.5	166
11	Ecologically implausible carbon response?. Nature, 2008, 451, E1-E3.	27.8	141
12	Resistance modelling of ammonia exchange over oilseed rape. Agricultural and Forest Meteorology, 2000, 105, 405-425.	4.8	131
13	Semiempirical modeling of abiotic and biotic factors controlling ecosystem respiration across eddy covariance sites. Global Change Biology, 2011, 17, 390-409.	9.5	128
14	Advances in understanding, models and parameterizations of biosphere-atmosphere ammonia exchange. Biogeosciences, 2013, 10, 5183-5225.	3.3	116
15	The global nitrogen cycle in the twenty-first century: introduction. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130165.	4.0	112
16	Detecting changes in epiphytic lichen communities at sites affected by atmospheric ammonia from agricultural sources. Lichenologist, 2006, 38, 161-176.	0.8	109
17	Dry deposition of ammonia gas drives species change faster than wet deposition of ammonium ions: evidence from a longâ€term field manipulation. Global Change Biology, 2011, 17, 3589-3607.	9.5	106
18	The role of long-range transport and domestic emissions in determining atmospheric secondary inorganic particle concentrations across the UK. Atmospheric Chemistry and Physics, 2014, 14, 8435-8447.	4.9	94

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19	Using lichen functional diversity to assess the effects of atmospheric ammonia in Mediterranean woodlands. Journal of Applied Ecology, 2011, 48, 1107-1116.	4.0	91
20	Towards validation of ammonia (NH₃) measurements from the IASI satellite. Atmospheric Measurement Techniques, 2015, 8, 1575-1591.	3.1	90
21	A chronology of global air quality. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190314.	3.4	87
22	Sub-Antarctic marine aerosol: dominant contributions from biogenic sources. Atmospheric Chemistry and Physics, 2013, 13, 8669-8694.	4.9	82
23	Coupling soilâ€“plantâ€“atmosphere exchange of ammonia with ecosystem functioning in grasslands. Ecological Modelling, 2002, 158, 83-110.	2.5	80
24	Nitrogen processes in terrestrial ecosystems. , 2011, , 99-125.		77
25	Governing processes for reactive nitrogen compounds in the European atmosphere. Biogeosciences, 2012, 9, 4921-4954.	3.3	77
26	Drivers of long-term variability in CO₂ net ecosystem exchange in a temperate peatland. Biogeosciences, 2015, 12, 1799-1811.	3.3	75
27	Nitrogen as a threat to European terrestrial biodiversity. , 2011, , 463-494.		73
28	Global, regional and national trends of atmospheric ammonia derived from a decadal (2008â€“2018) satellite record. Environmental Research Letters, 2021, 16, 055017.	5.2	65
29	Ammonia emissions from seabird colonies. Geophysical Research Letters, 2007, 34, .	4.0	58
30	Nitrogen as a threat to the European greenhouse balance. , 2011, , 434-462.		58
31	Comparison of soil greenhouse gas fluxes from extensive and intensive grazing in a temperate maritime climate. Biogeosciences, 2013, 10, 1231-1241.	3.3	54
32	Drivers for spatial, temporal and long-term trends in atmospheric ammonia and ammonium in the UK. Atmospheric Chemistry and Physics, 2018, 18, 705-733.	4.9	52
33	Global actions for a sustainable phosphorus future. Nature Food, 2021, 2, 71-74.	14.0	50
34	A coupled dispersion and exchange model for short-range dry deposition of atmospheric ammonia. Quarterly Journal of the Royal Meteorological Society, 2006, 132, 1733-1763.	2.7	47
35	Remote sensing of LAI, chlorophyll and leaf nitrogen pools of crop- and grasslands in five European landscapes. Biogeosciences, 2013, 10, 6279-6307.	3.3	40
36	Ammonia Deposition Near Hot Spots: Processes, Models and Monitoring Methods. , 2009, , 205-267.		38

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37	Nitrogen processes in the atmosphere. , 2011, , 177-208.		35
38	Cleaning up nitrogen pollution may reduce future carbon sinks. Global Environmental Change, 2018, 48, 56-66.	7.8	33
39	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
40	Nitrogen Challenges and Opportunities for Agricultural and Environmental Science in India. Frontiers in Sustainable Food Systems, 2021, 5, .	3.9	29
41	Linking Ammonia Emission Trends to Measured Concentrations and Deposition of Reduced Nitrogen at Different Scales. , 2009, , 123-180.		28
42	Estimating environmentally relevant fixed nitrogen demand in the 21st century. Climatic Change, 2013, 120, 889-901.	3.6	27
43	Applying the ecosystem service concept to air quality management in the UK: a case study for ammonia. Environmetrics, 2011, 22, 649-661.	1.4	25
44	A Credit System to Solve Agricultural Nitrogen Pollution. Innovation(China), 2021, 2, 100079.	9.1	25
45	Reducing the health effect of particles from agriculture. Lancet Respiratory Medicine,the, 2015, 3, 831-832.	10.7	21
46	Acid gases and aerosol measurements in the UK (1999â€“2015): regional distributions and trends. Atmospheric Chemistry and Physics, 2018, 18, 16293-16324.	4.9	21
47	Carbonâ€“nitrogen interactions in European forests and semi-natural vegetation â€“ Part 1: Fluxes and budgets of carbon, nitrogen and greenhouse gases from ecosystem monitoring and modelling. Biogeosciences, 2020, 17, 1583-1620.	3.3	21
48	Pan-European rural monitoring network shows dominance of NH₃ gas and NH₄NO₃ aerosol in inorganic atmospheric pollution load. Atmospheric Chemistry and Physics, 2021, 21, 875-914.	4.9	21
49	Experimental comparison of continuous and intermittent flooding of rice in relation to methane, nitrous oxide and ammonia emissions and the implications for nitrogen use efficiency and yield. Agriculture, Ecosystems and Environment, 2021, 319, 107571.	5.3	19
50	Carbonâ€“nitrogen interactions in European forests and semi-natural vegetation â€“ Part 2: Untangling climatic, edaphic, management and nitrogen deposition effects on carbon sequestration potentials. Biogeosciences, 2020, 17, 1621-1654.	3.3	18
51	Assessing our nitrogen inheritance. , 2011, , 1-6.		17
52	Global assessment of the effect of climate change on ammonia emissions from seabirds. Atmospheric Environment, 2018, 184, 212-223.	4.1	16
53	Satellite pinpoints ammonia sources globally. Nature, 2018, 564, 49-50.	27.8	15
54	Long-Term Record (1981â€”2005) of Ammonia and Ammonium Concentrations at K-Puszta Hungary and the Effect of Sulphur Dioxide Emission Change on Measured and Modelled Concentrations. , 2009, , 181-185.		15

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55	A climate-dependent global model of ammonia emissions from chicken farming. Biogeosciences, 2021, 18, 135-158.	3.3	13
56	Reactive nitrogen and greenhouse gas flux interactions in terrestrial ecosystems. Plant and Soil, 2011, 343, 1-3.	3.7	11
57	A process-based model for ammonia emission from urine patches, GAG (Generation of Ammonia from) Tj ETQq1 1 0.784314 rgBT /Ov	3.3	11
58	Estimation of nitrogen budgets for contrasting catchments at the landscape scale. Biogeosciences, 2013, 10, 119-133.	3.3	9
59	Analysis of atmospheric ammonia over South and East Asia based on the MOZART-4 model and its comparison with satellite and surface observations. Atmospheric Chemistry and Physics, 2021, 21, 6389-6409.	4.9	8
60	Estimation of the Ammonia Critical Level for Epiphytic Lichens Based on Observations at Farm, Landscape and National Scales. , 2009, , 71-86.		7
61	Global Air Quality, past present and future: an introduction. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190323.	3.4	6
62	A time-series of methane and carbon dioxide production from dairy cows during a period of dietary transition. Cogent Environmental Science, 2017, 3, 1385693.	1.6	5
63	Assessment of Reactive Nitrogen Flows in Bangladeshâ€™s Agriculture Sector. Sustainability, 2022, 14, 272.	3.2	3
64	Particle toxicityâ€™s role in air pollutionâ€”Response. Science, 2022, 375, 506-507.	12.6	2
65	The European nitrogen cycle: commentary on Schulze et al., Global Change Biology (2010) 16, pp. 1451-1469. Global Change Biology, 2011, 17, 2754-2757.	9.5	0