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	Particle toxicityâ€™s role in air pollutionâ€”Response. Science, 2022, 375, 506-507.	12.6	2
2	Assessment of Reactive Nitrogen Flows in Bangladeshâ€™s Agriculture Sector. Sustainability, 2022, 14, 272.	3.2	3
3	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
4	A climate-dependent global model of ammonia emissions from chicken farming. Biogeosciences, 2021, 18, 135-158.	3.3	13
5	A Credit System to Solve Agricultural Nitrogen Pollution. Innovation(China), 2021, 2, 100079.	9.1	25
6	Global actions for a sustainable phosphorus future. Nature Food, 2021, 2, 71-74.	14.0	50
7	Nitrogen Challenges and Opportunities for Agricultural and Environmental Science in India. Frontiers in Sustainable Food Systems, 2021, 5, .	3.9	29
8	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
9	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
10	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
11	Abating ammonia is more cost-effective than nitrogen oxides for mitigating PM _{2.5} air pollution. Science, 2021, 374, 758-762.	12.6	191
12	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
13	Global Air Quality, past present and future: an introduction. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190323.	3.4	6
14	A chronology of global air quality. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190314.	3.4	87
15	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
16	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
17	Cleaning up nitrogen pollution may reduce future carbon sinks. Global Environmental Change, 2018, 48, 56-66.	7.8	33
18	Global assessment of the effect of climate change on ammonia emissions from seabirds. Atmospheric Environment, 2018, 184, 212-223.	4.1	16

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19	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
20	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
21	Satellite pinpoints ammonia sources globally. Nature, 2018, 564, 49-50.	27.8	15
22	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
23	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
24	Drivers of long-term variability in CO₂ net ecosystem exchange in a temperate peatland. Biogeosciences, 2015, 12, 1799-1811.	3.3	75
25	Reducing the health effect of particles from agriculture. Lancet Respiratory Medicine,the, 2015, 3, 831-832.	10.7	21
26	Towards validation of ammonia (NH₃) measurements from the IASI satellite. Atmospheric Measurement Techniques, 2015, 8, 1575-1591.	3.1	90
27	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
28	Costs and Benefits of Nitrogen for Europe and Implications for Mitigation. Environmental Science & Technology, 2013, 47, 3571-3579.	10.0	242
29	Estimating environmentally relevant fixed nitrogen demand in the 21st century. Climatic Change, 2013, 120, 889-901.	3.6	27
30	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
31	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
32	Sub-Antarctic marine aerosol: dominant contributions from biogenic sources. Atmospheric Chemistry and Physics, 2013, 13, 8669-8694.	4.9	82
33	Advances in understanding, models and parameterizations of biosphere-atmosphere ammonia exchange. Biogeosciences, 2013, 10, 5183-5225.	3.3	116
34	Estimation of nitrogen budgets for contrasting catchments at the landscape scale. Biogeosciences, 2013, 10, 119-133.	3.3	9
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	Comparison of soil greenhouse gas fluxes from extensive and intensive grazing in a temperate maritime climate. Biogeosciences, 2013, 10, 1231-1241.	3.3	54

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37	Governing processes for reactive nitrogen compounds in the European atmosphere. Biogeosciences, 2012, 9, 4921-4954.	3.3	77
38	Nitrogen as a threat to European terrestrial biodiversity. , 2011, , 463-494.		73
39	Nitrogen as a threat to the European greenhouse balance. , 2011, , 434-462.		58
40	Assessing our nitrogen inheritance. , 2011, , 1-6.		17
41	Nitrogen processes in the atmosphere. , 2011, , 177-208.		35
42	Nitrogen processes in terrestrial ecosystems. , 2011, , 99-125.		77
43	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
44	Semiempirical modeling of abiotic and biotic factors controlling ecosystem respiration across eddy covariance sites. Global Change Biology, 2011, 17, 390-409.	9.5	128
45	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
46	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
47	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
48	Too much of a good thing. Nature, 2011, 472, 159-161.	27.8	810
49	Reactive nitrogen and greenhouse gas flux interactions in terrestrial ecosystems. Plant and Soil, 2011, 343, 1-3.	3.7	11
50	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
51	Estimation of the Ammonia Critical Level for Epiphytic Lichens Based on Observations at Farm, Landscape and National Scales. , 2009, , 71-86.		7
52	Linking Ammonia Emission Trends to Measured Concentrations and Deposition of Reduced Nitrogen at Different Scales. , 2009, , 123-180.		28
53	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
54	Ammonia Deposition Near Hot Spots: Processes, Models and Monitoring Methods. , 2009, , 205-267.		38

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55	Ecologically implausible carbon response?. Nature, 2008, 451, E1-E3.	27.8	141
56	How a century of ammonia synthesis changed the world. Nature Geoscience, 2008, 1, 636-639.	12.9	2,909
57	Uncertainties in the relationship between atmospheric nitrogen deposition and forest carbon sequestration. Global Change Biology, 2008, 14, 2057-2063.	9.5	166
58	Ammonia in the environment: From ancient times to the present. Environmental Pollution, 2008, 156, 583-604.	7.5	289
59	Ammonia emissions from seabird colonies. Geophysical Research Letters, 2007, 34, .	4.0	58
60	Detecting changes in epiphytic lichen communities at sites affected by atmospheric ammonia from agricultural sources. Lichenologist, 2006, 38, 161-176.	0.8	109
61	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
62	Coupling soilâ€“plantâ€“atmosphere exchange of ammonia with ecosystem functioning in grasslands. Ecological Modelling, 2002, 158, 83-110.	2.5	80
63	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
64	Resistance modelling of ammonia exchange over oilseed rape. Agricultural and Forest Meteorology, 2000, 105, 405-425.	4.8	131
65	Ammonia: emission, atmospheric transport and deposition. New Phytologist, 1998, 139, 27-48.	7.3	489