

# Industrial and agricultural ammonia point sources expo

Nature

564, 99-103

DOI: 10.1038/s41586-018-0747-1

Citation Report

#	ARTICLE	IF	CITATIONS
2	Satellite pinpoints ammonia sources globally. <i>Nature</i> , 2018, 564, 49-50.	27.8	15
3	Fast molecular fingerprinting with a coherent, rapidly tunable dual-comb spectrometer near 3 $\mu$ m. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 18400-18405.	2.8	16
4	Toward the improvement of total nitrogen deposition budgets in the United States. <i>Science of the Total Environment</i> , 2019, 691, 1328-1352.	8.0	29
5	Ammonium nitrate particles formed in upper troposphere from ground ammonia sources during Asian monsoons. <i>Nature Geoscience</i> , 2019, 12, 608-612.	12.9	95
6	Unprecedented Atmospheric Ammonia Concentrations Detected in the High Arctic From the 2017 Canadian Wildfires. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 8178-8202.	3.3	25
7	Implementation of a dynamical NH <sub>3</sub> emissions parameterization in CMAQ for improving PM <sub>2.5</sub> simulation in Taiwan. <i>Atmospheric Environment</i> , 2019, 218, 116923.	4.1	18
8	Relating high ozone, ultrafine particles, and new particle formation episodes using cluster analysis. <i>Atmospheric Environment: X</i> , 2019, 4, 100051.	1.4	9
9	Evaluating Ammonia (NH <sub>3</sub> ) Predictions in the NOAA NAQFC for Eastern North Carolina Using Ground Level and Satellite Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 8242-8259.	3.3	6
10	Tracking down global NH <sub>3</sub> point sources with wind-adjusted superresolution. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5457-5473.	3.1	39
13	Nitrogen Speciation and Isotopic Composition of Aerosols Collected at Himalayan Forest (3326 m) Tj ETQq1 1 0.784314 rgBT /Overlock 12247-12256.	10.0	27
14	Improved Inversion of Monthly Ammonia Emissions in China Based on the Chinese Ammonia Monitoring Network and Ensemble Kalman Filter. <i>Environmental Science &amp; Technology</i> , 2019, 53, 12529-12538.	10.0	72
15	Temporal characteristics and vertical distribution of atmospheric ammonia and ammonium in winter in Beijing. <i>Science of the Total Environment</i> , 2019, 681, 226-234.	8.0	29
17	Aerosol Ammonium in the Urban Boundary Layer in Beijing: Insights from Nitrogen Isotope Ratios and Simulations in Summer 2015. <i>Environmental Science and Technology Letters</i> , 2019, 6, 389-395.	8.7	38
18	The unintended consequence of SO <sub>2</sub> and NO <sub>2</sub> regulations over China: increase of ammonia levels and impact on PM <sub>2.5</sub> concentrations. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 6701-6716.	4.9	63
19	Effective and Reversible Capture of NH <sub>3</sub> by Ethylamine Hydrochloride Plus Glycerol Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10552-10560.	6.7	80
20	Atmospheric ammonia (NH <sub>3</sub> ) emanations from Lake Natron's saline mudflats. <i>Scientific Reports</i> , 2019, 9, 4441.	3.3	24
21	NH <sub>3</sub> emissions from large point sources derived from CrIS and IASI satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12261-12293.	4.9	89
22	Estimating global surface ammonia concentrations inferred from satellite retrievals. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12051-12066.	4.9	31

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23	Wintertime spatial distribution of ammonia and its emission sources in the Great Salt Lake region. Atmospheric Chemistry and Physics, 2019, 19, 15691-15709.	4.9	15
24	Crop production in Pakistan and low nitrogen use efficiencies. Nature Sustainability, 2019, 2, 1106-1114.	23.7	54
25	Causes of Large Increases in Atmospheric Ammonia in the Last Decade across North America. ACS Omega, 2019, 4, 22133-22142.	3.5	14
26	Combining deep flooding and slow-release urea to reduce ammonia emission from rice fields. Journal of Cleaner Production, 2020, 244, 118745.	9.3	23
27	Spatial hazard assessment of the PM10 using machine learning models in Barcelona, Spain. Science of the Total Environment, 2020, 701, 134474.	8.0	91
28	Electric field-modulated high sensitivity and selectivity for NH <sub>3</sub> on $\text{Fe}^{3+}$ -C <sub>2</sub> N <sub>2</sub> nanosheet: Insights from DFT calculations. Applied Surface Science, 2020, 505, 144619.	6.1	39
29	Adsorbing and Activating N <sub>2</sub> on Heterogeneous Au@Fe <sub>3</sub> O <sub>4</sub> Nanoparticles for N <sub>2</sub> Fixation. Advanced Functional Materials, 2020, 30, 1906579.	14.9	114
30	Fossil fuel-related emissions were the major source of NH <sub>3</sub> pollution in urban cities of northern China in the autumn of 2017. Environmental Pollution, 2020, 256, 113428.	7.5	63
31	Estimating exposure to hydrogen sulfide from animal husbandry operations using satellite ammonia as a proxy: Methodology demonstration. Science of the Total Environment, 2020, 709, 134508.	8.0	4
32	Liquefied Sunshine: Transforming Renewables into Fertilizers and Energy Carriers with Electromaterials. Advanced Materials, 2020, 32, e1904804.	21.0	49
33	Advances in sensing ammonia from agricultural sources. Science of the Total Environment, 2020, 706, 135124.	8.0	61
34	Environmental impacts of nitrogen emissions in China and the role of policies in emission reduction. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190324.	3.4	39
35	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
36	Fall of oxidized while rise of reduced reactive nitrogen deposition in China. Journal of Cleaner Production, 2020, 272, 122875.	9.3	14
37	Aircraft measurements reveal vertical distribution of atmospheric ammonia over the North China Plain in early autumn. Environmental Chemistry Letters, 2020, 18, 2149-2156.	16.2	3
38	The Global Cycles of Nitrogen, Phosphorus and Potassium. , 2020, , 483-508.		2
40	Sources and trends of oxidized and reduced nitrogen wet deposition in a typical medium-sized city of eastern China during 2010–2016. Science of the Total Environment, 2020, 744, 140558.	8.0	2
41	Why is the Indo-Gangetic Plain the region with the largest NH <sub>3</sub> column in the globe during pre-monsoon and monsoon seasons?. Atmospheric Chemistry and Physics, 2020, 20, 8727-8736.	4.9	12

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42	Regional transport and urban emissions are important ammonia contributors in Beijing, China. Environmental Pollution, 2020, 265, 115062.	7.5	17
43	Ammonia capture with ionic liquid systems: A review. Critical Reviews in Environmental Science and Technology, 2022, 52, 767-809.	12.8	23
44	Glycerine-based synthesis of a highly efficient Fe <sub>2</sub> O <sub>3</sub> electrocatalyst for N <sub>2</sub> fixation. RSC Advances, 2020, 10, 29575-29579.	3.6	13
45	Global nitrous acid emissions and levels of regional oxidants enhanced by wildfires. Nature Geoscience, 2020, 13, 681-686.	12.9	51
46	Exposure of Definite Palladium Facets Boosts Electrocatalytic Nitrogen Fixation at Low Overpotential. Advanced Energy Materials, 2020, 10, 2002131.	19.5	45
47	Quantitative Determination of Hydroxymethanesulfonate (HMS) Using Ion Chromatography and UHPLC-LTQ-Orbitrap Mass Spectrometry: A Missing Source of Sulfur during Haze Episodes in Beijing. Environmental Science and Technology Letters, 2020, 7, 701-707.	8.7	25
48	Multiphase buffer theory explains contrasts in atmospheric aerosol acidity. Science, 2020, 369, 1374-1377.	12.6	115
49	Quantification of Atmospheric Ammonia Concentrations: A Review of Its Measurement and Modeling. Atmosphere, 2020, 11, 1092.	2.3	48
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52	Overcoming socioeconomic barriers to reduce agricultural ammonia emission in China. Environmental Science and Pollution Research, 2020, 27, 25813-25817.	5.3	17
53	Evolution of electrospun nanofibers fluorescent and colorimetric sensors for environmental toxicants, pH, temperature, and cancer cells – A review with insights on applications. Chemical Engineering Journal, 2020, 397, 125431.	12.7	90
54	A temporal-spatial analysis and future trends of ammonia emissions in China. Science of the Total Environment, 2020, 731, 138897.	8.0	52
55	Advances in electrospun nanofiber fabrication for polyaniline (PANI)-based chemoresistive sensors for gaseous ammonia. TrAC - Trends in Analytical Chemistry, 2020, 129, 115938.	11.4	77
56	Global estimates of dry ammonia deposition inferred from space-measurements. Science of the Total Environment, 2020, 730, 139189.	8.0	11
57	Atmospheric Nitrogen Depositions in a Highly Human-Impacted Area. Water, Air, and Soil Pollution, 2020, 231, 1.	2.4	5
58	Record high levels of atmospheric ammonia over India: Spatial and temporal analyses. Science of the Total Environment, 2020, 740, 139986.	8.0	61
59	Ammonia measurements from space with the Cross-track Infrared Sounder: characteristics and applications. Atmospheric Chemistry and Physics, 2020, 20, 2277-2302.	4.9	47
60	Air Pollution and Sea Pollution Seen from Space. Surveys in Geophysics, 2020, 41, 1583-1609.	4.6	15

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62	HERMESv3, a stand-alone multi-scale atmospheric emission modelling framework â€“ Part 2: The bottomâ€“up module. <i>Geoscientific Model Development</i> , 2020, 13, 873-903.	3.6	32
63	Atmospheric ammonia variability and link with particulate matter formation: a case study over the Paris area. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 577-596.	4.9	24
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67	Nitrogen emissions along global livestock supply chains. <i>Nature Food</i> , 2020, 1, 437-446.	14.0	160
69	Real-time measurement and source apportionment of elements in Delhi's atmosphere. <i>Science of the Total Environment</i> , 2020, 742, 140332.	8.0	78
70	Effect of grid resolution and spatial representation of NH <sub>3</sub> emissions from fertilizer application on predictions of NH <sub>3</sub> and PM <sub>2.5</sub> concentrations in the United States Corn Belt. <i>Environmental Research Communications</i> , 2020, 2, 025001.	2.3	6
71	Removal of Ammonia Emissions via Reversible Structural Transformation in M(BDC) (M = Cu, Zn, Cd) Metalâ€“Organic Frameworks. <i>Environmental Science &amp; Technology</i> , 2020, 54, 3636-3642.	10.0	34
72	Transport of Asian surface pollutants to the global stratosphere from the Tibetan Plateau region during the Asian summer monsoon. <i>National Science Review</i> , 2020, 7, 516-533.	9.5	63
73	Regulated Threshold Pressure of Reversibly Sigmoidal NH <sub>3</sub> Absorption Isotherm with Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1637-1643.	6.7	22
74	Empirical rovibrational energy levels of ammonia up to 7500â€“cm <sup>1</sup> . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 251, 107027.	2.3	20
75	Optimal Interpolation for Infrared Products from Hyperspectral Satellite Imagers and Sounders. <i>Sensors</i> , 2020, 20, 2352.	3.8	8
76	Surface decorated spinel-oxide electrodes for mixed-potential ammonia sensor: Performance and DRT analysis. <i>Journal of Hazardous Materials</i> , 2020, 396, 122601.	12.4	30
77	Cooperative application of transcriptomics and ceRNA hypothesis: LncRNA-107052630/miR-205a/GOS2 crosstalk is involved in ammonia-induced intestinal apoptotic injury in chicken. <i>Journal of Hazardous Materials</i> , 2020, 396, 122605.	12.4	26
78	Characterization of the Global Sources of Atmospheric Ammonia from Agricultural Soils. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031684.	3.3	18
79	Enhanced atmospheric ammonia (NH <sub>3</sub> ) pollution in China from 2008 to 2016: Evidence from a combination of observations and emissions. <i>Environmental Pollution</i> , 2020, 263, 114421.	7.5	53

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80	In situ continuous hourly observations of wintertime nitrate, sulfate and ammonium in a megacity in the North China plain from 2014 to 2019: Temporal variation, chemical formation and regional transport. <i>Chemosphere</i> , 2021, 262, 127745.	8.2	17
81	Oxidation of ammonia using immobilised FeCu for water treatment. <i>Separation and Purification Technology</i> , 2021, 254, 117612.	7.9	15
82	A TPA-DCPP organic semiconductor film-based room temperature NH <sub>3</sub> sensor for insight into the sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128940.	7.8	25
83	Sulfuric acid modified expanded vermiculite cover for reducing ammonia emissions from animal slurry storage. <i>Journal of Hazardous Materials</i> , 2021, 403, 123954.	12.4	14
84	Water-soluble organic and inorganic nitrogen in ambient aerosols over the Himalayan middle hills: Seasonality, sources, and transport pathways. <i>Atmospheric Research</i> , 2021, 250, 105376.	4.1	18
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86	Electrohydrodynamic jet printed conducting polymer for enhanced chemiresistive gas sensors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4591-4596.	5.5	31
87	Self-regulated catalysis for the selective synthesis of primary amines from carbonyl compounds. <i>Green Chemistry</i> , 2021, 23, 7115-7121.	9.0	15
88	From South Asia to the world: embracing the challenge of global sustainable nitrogen management. <i>One Earth</i> , 2021, 4, 22-27.	6.8	21
89	Degradation of ammonia gas by Cu<sub>2</sub>O/{001}TiO<sub>2</sub> and its mechanistic analysis. <i>RSC Advances</i> , 2021, 11, 3695-3702.	3.6	7
90	Isolating metallophthalocyanine sites into graphene-supported microporous polyaniline enables highly efficient sensing of ammonia. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4150-4158.	10.3	11
91	High-resolution hybrid inversion of IASI ammonia columns to constrain US ammonia emissions using the CMAQ adjoint model. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 2067-2082.	4.9	22
92	Multiscale observations of NH <sub>3</sub> around Toronto, Canada. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 905-921.	3.1	7
93	Global Wetâ€Reduced Nitrogen Deposition Derived From Combining Satellite Measurements With Output From a Chemistry Transport Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033977.	3.3	2
94	Nonâ€Linear Response of Ammonia Volatilization to Periphyton in Paddy Soils. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG005870.	3.0	1
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96	Identification of Short and Longâ€Lived Atmospheric Trace Gases From IASI Space Observations. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091742.	4.0	9
97	10-year satellite-constrained fluxes of ammonia improve performance of chemistry transport models. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 4431-4451.	4.9	21

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99	Long-term trends in air quality in major cities in the UK and India: a view from space. Atmospheric Chemistry and Physics, 2021, 21, 6275-6296.	4.9	31
100	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
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103	Validation of IASI Satellite Ammonia Observations at the Pixel Scale Using In Situ Vertical Profiles. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033475.	3.3	28
104	The Research Progress of the Influence of Agricultural Activities on Atmospheric Environment in Recent Ten Years: A Review. Atmosphere, 2021, 12, 635.	2.3	9
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112	Atmospheric nitrogen deposition: A review of quantification methods and its spatial pattern derived from the global monitoring networks. Ecotoxicology and Environmental Safety, 2021, 216, 112180.	6.0	31
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114	Lessons from the COVID-19 air pollution decrease in Spain: Now what?. Science of the Total Environment, 2021, 779, 146380.	8.0	80
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124	A systems lens to evaluate the compound human health impacts of anthropogenic activities. One Earth, 2021, 4, 1233-1247.	6.8	0
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126	Urban aerosol chemistry at a land–water transition site during summer – Part 1: Impact of agricultural and industrial ammonia emissions. Atmospheric Chemistry and Physics, 2021, 21, 13051-13065.	4.9	2
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133	Satellite observations of ammonia over South Asia. , 2022, , 227-237.		0
134	Nitrogenous and carbonaceous aerosols in PM <sub>2.5</sub> and TSP during pre-monsoon: Characteristics and sources in the highly polluted mountain valley. Journal of Environmental Sciences, 2022, 115, 10-24.	6.1	5
135	Superhigh and reversible NH <sub>3</sub> uptake of cobaltous thiocyanate functionalized porous poly ionic liquids through competitive and cooperative interactions. Chemical Engineering Journal, 2022, 427, 131638.	12.7	14



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137	Ammonia and PM2.5 Air Pollution in Paris during the 2020 COVID Lockdown. Atmosphere, 2021, 12, 160.	2.3	32
139	In Situ Synthesis of MoS <sub>2</sub> on C <sub>3</sub> N <sub>4</sub> To Form MoS <sub>2</sub> /C <sub>3</sub> N <sub>4</sub> with Interfacial Mo-N Coordination for Electrocatalytic Reduction of N <sub>2</sub> to NH <sub>3</sub> . ACS Sustainable Chemistry and Engineering, 2020, 8, 8814-8822.	6.7	40
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143	Molecular insights into new particle formation in Barcelona, Spain. Atmospheric Chemistry and Physics, 2020, 20, 10029-10045.	4.9	27
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145	Aerosol pH and chemical regimes of sulfate formation in aerosol water during winter haze in the North China Plain. Atmospheric Chemistry and Physics, 2020, 20, 11729-11746.	4.9	47
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148	Sources and atmospheric dynamics of organic aerosol in New Delhi, India: insights from receptor modeling. Atmospheric Chemistry and Physics, 2020, 20, 735-752.	4.9	44
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160	High NH <sub>3</sub> deposition in the environs of a commercial fattening pig farm in central south China. Environmental Research Letters, 2021, 16, 125007.	5.2	8
161	Colorimetric Paper-Based Device for Hazardous Compounds Detection in Air and Water: A Proof of Concept. Sensors, 2020, 20, 5502.	3.8	9
162	Estimating nitrogen risk to Himalayan forests using thresholds for lichen bioindicators. Biological Conservation, 2022, 265, 109401.	4.1	4
163	Nitrogen emissions from agriculture sector in Pakistan: context, pathways, impacts and future projections. , 2022, , 99-125.		2
164	Influence of hydraulic retention time on municipal wastewater treatment using microalgae-bacteria flocs in sequencing batch reactors. Bioresource Technology Reports, 2022, 17, 100884.	2.7	5
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168	Seasonal and Spatial Variations of Atmospheric Ammonia in the Urban and Suburban Environments of Seoul, Korea. Atmosphere, 2021, 12, 1607.	2.3	7
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170	Adsorption removal of ammonium from aqueous solution using Mg/Al layered double hydroxides-zeolite composite. Environmental Technology and Innovation, 2022, 25, 102244.	6.1	20
171	Induced Birefringence by Drop Cast in EFBC Ammonia Sensors. Photonics, 2021, 8, 346.	2.0	0
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