

# The global nitrogen cycle in the twenty-first century

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Citation Report

#	ARTICLE	IF	CITATIONS
1	A chronology of human understanding of the nitrogen cycle <sup />. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130120.	1.8	202
2	Our nitrogen "footprint"™: the need for increased crop nitrogen use efficiency. Annals of Applied Biology, 2013, 163, 165-169.	1.3	40
3	Rapid Ammonia Gas Transport Accounts for Futile Transmembrane Cycling under NH <sub>3</sub> /NH <sub>4</sub> <sup>+</sup> Toxicity in Plant Roots. Plant Physiology, 2013, 163, 1859-1867.	2.3	95
4	The global nitrogen cycle in the twenty-first century: introduction. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130165.	1.8	112
5	Towards a climate-dependent paradigm of ammonia emission and deposition. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130166.	1.8	328
6	Multi-model mean nitrogen and sulfur deposition from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP): evaluation of historical and projected future changes. Atmospheric Chemistry and Physics, 2013, 13, 7997-8018.	1.9	279
7	Comment: Cultural eutrophication of natural lakes in the United States is real and widespread. Limnology and Oceanography, 2014, 59, 2217-2225.	1.6	35
8	Precipitation Regime and Nitrogen Addition Effects on Leaf Litter Decomposition in Tropical Dry Forests. Biotropica, 2014, 46, 415-424.	0.8	21
9	Nitrogen-neutrality: a step towards sustainability. Environmental Research Letters, 2014, 9, 115001.	2.2	34
10	The Production of Ammonia by Multiheme Cytochromes c. Metal Ions in Life Sciences, 2014, 14, 211-236.	2.8	12
12	Aquatic primary production in a high-CO <sub>2</sub> world. Trends in Ecology and Evolution, 2014, 29, 223-232.	4.2	64
13	Food and feed trade as a driver in the global nitrogen cycle: 50-year trends. Biogeochemistry, 2014, 118, 225-241.	1.7	240
14	A faulty fertilizer. Nature Geoscience, 2014, 7, 857-858.	5.4	3
15	Biomass-based multifunctional fertilizer system featuring controlled-release nutrient, water-retention and amelioration of soil. RSC Advances, 2014, 4, 18382.	1.7	67
16	Personal nitrogen footprint tool for the United Kingdom. Environmental Sciences: Processes and Impacts, 2014, 16, 1563-1569.	1.7	62
17	Global dry deposition of nitrogen dioxide and sulfur dioxide inferred from space-based measurements. Global Biogeochemical Cycles, 2014, 28, 1025-1043.	1.9	65
18	The environmental controls that govern the end product of bacterial nitrate respiration. Science, 2014, 345, 676-679.	6.0	391
19	N-related greenhouse gases in North America: innovations for a sustainable future. Current Opinion in Environmental Sustainability, 2014, 9-10, 1-8.	3.1	28

#	ARTICLE	IF	CITATIONS
20	The biosphere in times of global urbanization. <i>Journal of Geochemical Exploration</i> , 2014, 147, 52-57.	1.5	7
21	Identification of a dominant gene in <i>Medicago truncatula</i> that restricts nodulation by <i>Sinorhizobium meliloti</i> strain Rm41. <i>BMC Plant Biology</i> , 2014, 14, 167.	1.6	30
22	Nitrogen-use efficiency in maize ( <i>Zea mays</i> L.): from 'omics' studies to metabolic modelling. <i>Journal of Experimental Botany</i> , 2014, 65, 5657-5671.	2.4	80
23	Nitrogen-Cycling Genes in Epilithic Biofilms of Oligotrophic High-Altitude Lakes (Central Pyrenees,) Tj ETQq1 1 0.784314 rgBT /Overlo	1.4	35
24	Terrestrial and Inland Water Systems. , 0, , 271-360.		25
25	Evaluating 4 years of atmospheric ammonia (NH <sub>3</sub> ) over Europe using IASI satellite observations and LOTOS-EUROS model results. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 9549-9566.	1.2	61
26	Global distributions, time series and error characterization of atmospheric ammonia (NH <sub>3</sub> ) from IASI satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2905-2922.	1.9	195
27	Long-term non-invasive and continuous measurements of legume nodule activity. <i>Plant Journal</i> , 2015, 81, 637-648.	2.8	12
28	Grassland ecology: Complexity of nutrient constraints. <i>Nature Plants</i> , 2015, 1, 15098.	4.7	11
30	Global oceanic emission of ammonia: Constraints from seawater and atmospheric observations. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1165-1178.	1.9	96
31	Subalpine Pyrenees received higher nitrogen deposition than predicted by EMEP and CHIMERE chemistry-transport models. <i>Scientific Reports</i> , 2015, 5, 12942.	1.6	11
32	Sources and Impacts of Atmospheric NH <sub>3</sub> : Current Understanding and Frontiers for Modeling, Measurements, and Remote Sensing in North America. <i>Current Pollution Reports</i> , 2015, 1, 95-116.	3.1	69
33	Tropospheric ozone and its precursors from the urban to the global scale from air quality to short-lived climate forcer. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8889-8973.	1.9	942
34	Effects of global change during the 21st century on the nitrogen cycle. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13849-13893.	1.9	168
35	Quantifying atmospheric nitrogen deposition through a nationwide monitoring network across China. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12345-12360.	1.9	324
36	Sources and fluxes of organic nitrogen in precipitation over the southern East Sea/Sea of Japan. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2761-2774.	1.9	19
37	Combining Noble Metals and Enzymes for Relay Cascade Electrocatalysis of Nitrate Reduction to Ammonia at Neutral pH. <i>ChemElectroChem</i> , 2015, 2, 1086-1089.	1.7	25
38	Chemical footprints of anthropogenic nitrogen deposition on recent soil C : N ratios in Europe. <i>Biogeosciences</i> , 2015, 12, 4113-4119.	1.3	29

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39	The interdisciplinary nature of &lt;i>SOIL&lt;/i>. Soil, 2015, 1, 117-129.	2.2	494
40	Improving the Efficiency of Organic Fertilizer and Nitrogen Use via Air Plasma and Distributed Renewable Energy. Plasma Medicine, 2015, 5, 257-270.	0.2	34
42	Marine Eutrophication. , 2015, , 177-203.		22
43	Bio-monitoring in Western North America: What Can Lichens Tell Us About Ecological Disturbances?. , 2015, , 119-138.		5
44	Nitrogenous Gas Emissions from Soils and Greenhouse Gas Effects. Advances in Agronomy, 2015, 132, 39-74.	2.4	30
45	Environmental drivers of the distribution of nitrogen functional genes at a watershed scale. FEMS Microbiology Ecology, 2015, 91, .	1.3	38
46	CO2 alters community composition and response to nutrient enrichment of freshwater phytoplankton. Oecologia, 2015, 177, 875-883.	0.9	53
47	Planetary boundaries: Guiding human development on a changing planet. Science, 2015, 347, 1259855.	6.0	7,124
48	How inhibiting nitrification affects nitrogen cycle and reduces environmental impacts of anthropogenic nitrogen input. Global Change Biology, 2015, 21, 1249-1257.	4.2	268
49	Impacts of reactive nitrogen on climate change in China. Scientific Reports, 2015, 5, 8118.	1.6	47
50	Controls on the nitrogen isotopic composition of shallow water corals across a tropical reef flat transect. Coral Reefs, 2015, 34, 329-338.	0.9	25
51	Towards validation of ammonia (NH&lt;sub&gt;3&lt;/sub&lt;/i>) measurements from the IASI satellite. Atmospheric Measurement Techniques, 2015, 8, 1575-1591.	1.2	90
52	Calcium : magnesium ratio affects environmental stress sensitivity in the serpentine-endemic Alyssum inflatum (Brassicaceae). Australian Journal of Botany, 2015, 63, 39.	0.3	14
54	Chemistry and the Linkages between Air Quality and Climate Change. Chemical Reviews, 2015, 115, 3856-3897.	23.0	315
56	Does Microbial Diversity Confound General Predictions?. Trends in Plant Science, 2015, 20, 695-697.	4.3	4
57	Urban rivers as hotspots of regional nitrogen pollution. Environmental Pollution, 2015, 205, 139-144.	3.7	100
58	Sinorhizobium meliloti Phage Î  M9 Defines a New Group of T4 Superfamily Phages with Unusual Genomic Features but a Common T=16 Capsid. Journal of Virology, 2015, 89, 10945-10958.	1.5	29
59	Soil nitric oxide emissions from terrestrial ecosystems in China: a synthesis of modeling and measurements. Scientific Reports, 2014, 4, 7406.	1.6	33

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60	Intraspecific leaf economic trait variation partially explains coffee performance across agroforestry management regimes. <i>Agriculture, Ecosystems and Environment</i> , 2015, 200, 151-160.	2.5	39
61	<i>Mycobacterium hassiacum</i> recovers from nitrogen starvation with up-regulation of a novel glucosylglycerate hydrolase and depletion of the accumulated glucosylglycerate. <i>Scientific Reports</i> , 2014, 4, 6766.	1.6	11
62	Integration of nitrogen dynamics into the Noah-MP land surface model v1.1 for climate and environmental predictions. <i>Geoscientific Model Development</i> , 2016, 9, 1-15.	1.3	31
63	Estimate of changes in agricultural terrestrial nitrogen pathways and ammonia emissions from 1850 to present in the Community Earth System Model. <i>Biogeosciences</i> , 2016, 13, 3397-3426.	1.3	79
64	The influence of tillage on N&lt;sub&gt;2&gt;O fluxes from an intensively managed grazed grassland in Scotland. <i>Biogeosciences</i> , 2016, 13, 4811-4821.	1.3	26
65	A process-based model for ammonia emission from urine patches, GAG (Generation of Ammonia from) Tj ETQq1 1 0,784314 rrgBT /Over	1.3	19
66	Tracer experiment and model evidence for macrofaunal shaping of microbial nitrogen functions along rocky shores. <i>Biogeosciences</i> , 2016, 13, 3519-3531.	1.3	4
67	Selective Pressure of Temperature on Competition and Cross-Feeding within Denitrifying and Fermentative Microbial Communities. <i>Frontiers in Microbiology</i> , 2015, 6, 1461.	1.5	17
68	Nitric Oxide-Mediated Maize Root Apex Responses to Nitrate are Regulated by Auxin and Strigolactones. <i>Frontiers in Plant Science</i> , 2015, 6, 1269.	1.7	38
69	Soil extracellular enzyme activities, soil carbon and nitrogen storage under nitrogen fertilization: A meta-analysis. <i>Soil Biology and Biochemistry</i> , 2016, 101, 32-43.	4.2	483
70	The nitrogen legacy: emerging evidence of nitrogen accumulation in anthropogenic landscapes. <i>Environmental Research Letters</i> , 2016, 11, 035014.	2.2	249
71	Biomass burning drives atmospheric nutrient redistribution within forested peatlands in Borneo. <i>Environmental Research Letters</i> , 2016, 11, 085003.	2.2	24
72	Knowledge discovery from high-frequency stream nitrate concentrations: hydrology and biology contributions. <i>Scientific Reports</i> , 2016, 6, 31536.	1.6	16
73	Synthesis and review: Tackling the nitrogen management challenge: from global to local scales. <i>Environmental Research Letters</i> , 2016, 11, 120205.	2.2	64
74	Nitrate assimilation by marine heterotrophic bacteria. <i>Science China Earth Sciences</i> , 2016, 59, 477-483.	2.3	16
75	Ammonia emissions in Europe, part I: Development of a dynamical ammonia emission inventory. <i>Atmospheric Environment</i> , 2016, 131, 55-66.	1.9	69
76	Impact of agriculture and land use on nitrate contamination in groundwater and running waters in central-west Poland. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 172.	1.3	131
77	Budgeting of major nutrients and the mitigation options for nutrient mining in semi-arid tropical agro-ecosystem of Tamil Nadu, India using NUTMON model. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 250.	1.3	19

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78	Reduction of nitrate to nitrite by microbes under oxic conditions. <i>Soil Biology and Biochemistry</i> , 2016, 100, 1-8.	4.2	39
79	Meta-analysis reveals ammonia-oxidizing bacteria respond more strongly to nitrogen addition than ammonia-oxidizing archaea. <i>Soil Biology and Biochemistry</i> , 2016, 99, 158-166.	4.2	194
80	How does climate variability influence nitrogen loss in temperate agroecosystems under contrasting management systems?. <i>Agriculture, Ecosystems and Environment</i> , 2016, 227, 33-41.	2.5	33
81	Effects of nitrogen fertilization on diazotrophic activity of microorganisms associated with <i>Sphagnum magellanicum</i> . <i>Plant and Soil</i> , 2016, 406, 83-100.	1.8	44
82	Field evaluation combined with modelling analysis to study fertilizer and tillage as factors affecting N <sub>2</sub> O emissions: A case study in the Po valley (Northern Italy). <i>Agriculture, Ecosystems and Environment</i> , 2016, 225, 72-85.	2.5	25
83	Plant-Microbiota Interactions as a Driver of the Mineral Turnover in the Rhizosphere. <i>Advances in Applied Microbiology</i> , 2016, 95, 1-67.	1.3	105
84	Pairing Modern and Paleolimnological Approaches to Evaluate the Nutrient Status of Lakes in Upper Midwest National Parks. <i>Journal of the American Water Resources Association</i> , 2016, 52, 1401-1419.	1.0	6
85	Influence of the irrigation technique and strategies on the nitrogen cycle and budget: A review. <i>Agricultural Water Management</i> , 2016, 178, 225-238.	2.4	64
86	Relationships between the El Niño-Southern Oscillation, precipitation, and nitrogen wet deposition rates in the contiguous United States. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1712-1724.	1.9	1
87	Nonlinear disruption of ecological interactions in response to nitrogen deposition. <i>Ecology</i> , 2016, 97, 2802-2814.	1.5	28
88	Response of microalgae to elevated CO <sub>2</sub> and temperature: impact of climate change on freshwater ecosystems. <i>Environmental Science and Pollution Research</i> , 2016, 23, 19847-19860.	2.7	46
89	Global biogeography of microbial nitrogen-cycling traits in soil. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8033-8040.	3.3	365
90	Global nitrogen budgets in cereals: A 50-year assessment for maize, rice and wheat production systems. <i>Scientific Reports</i> , 2016, 6, 19355.	1.6	343
91	An evaluation of IASI-NH <sub>3</sub> with ground-based Fourier transform infrared spectroscopy measurements. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10351-10368.	1.9	56
92	The lifetime of nitrogen oxides in an isoprene-dominated forest. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7623-7637.	1.9	75
93	Nitrogen use in the global food system: past trends and future trajectories of agronomic performance, pollution, trade, and dietary demand. <i>Environmental Research Letters</i> , 2016, 11, 095007.	2.2	227
94	A multiple metrics approach to prioritizing strategies for measuring and managing reactive nitrogen in the San Joaquin Valley of California. <i>Environmental Research Letters</i> , 2016, 11, 064011.	2.2	7
95	Air-snow exchange of reactive nitrogen species at Ny-Ålesund, Svalbard (Arctic). <i>Rendiconti Lincei</i> , 2016, 27, 33-45.	1.0	8

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96	Short communication: Evaluation of nitrogen excretion equations from cattle. <i>Journal of Dairy Science</i> , 2016, 99, 7669-7678.	1.4	22
97	Adapting feeding methods for less nitrogen pollution from pig and dairy cattle farming: abatement costs and uncertainties. <i>Nutrient Cycling in Agroecosystems</i> , 2016, 104, 201-220.	1.1	8
98	Evaluation of the use of moss transplants ( <i>Pseudoscleropodium purum</i> ) for biomonitoring different forms of air pollutant nitrogen compounds. <i>Environmental Pollution</i> , 2016, 213, 841-849.	3.7	20
99	The Role of Microbial Electron Transfer in the Coevolution of the Biosphere and Geosphere. <i>Annual Review of Microbiology</i> , 2016, 70, 45-62.	2.9	82
100	Responses to N Deficiency in Stay Green and Non-Stay Green Argentinean Hybrids of Maize. <i>Journal of Agronomy and Crop Science</i> , 2016, 202, 231-242.	1.7	37
101	Sugar Beet Yield and Processing Quality in Relation to Nitrogen Content and Microbiological Diversity of Deep Soil Layer. <i>Sugar Tech</i> , 2016, 18, 67-74.	0.9	5
102	Nitrogen isotopic composition of organic matter from a 168 year-old coral skeleton: Implications for coastal nutrient cycling in the Great Barrier Reef Lagoon. <i>Earth and Planetary Science Letters</i> , 2016, 434, 161-170.	1.8	25
103	Committee on air pollution effects research: 40 years of UK air pollution. <i>Environmental Pollution</i> , 2016, 208, 876-878.	3.7	4
104	Recent advances in nutrient removal and recovery in biological and bioelectrochemical systems. <i>Bioresource Technology</i> , 2016, 215, 173-185.	4.8	202
105	Driving mechanisms of nitrogen transport and transformation in lacustrine wetlands. <i>Science China Earth Sciences</i> , 2016, 59, 464-476.	2.3	6
106	Abundance and distribution of ammonia-oxidizing microorganisms in the sediments of Beiyun River, China. <i>Annals of Microbiology</i> , 2016, 66, 1075-1086.	1.1	19
107	Grain legume-based rotations managed under conventional tillage need cover crops to mitigate soil organic matter losses. <i>Soil and Tillage Research</i> , 2016, 156, 33-43.	2.6	61
108	Direct quantification of long-term rock nitrogen inputs to temperate forest ecosystems. <i>Ecology</i> , 2016, 97, 54-64.	1.5	28
109	A reevaluation of the magnitude and impacts of anthropogenic atmospheric nitrogen inputs on the ocean. <i>Global Biogeochemical Cycles</i> , 2017, 31, 289-305.	1.9	146
110	Nitrogen use efficiencies in Chinese agricultural systems and implications for food security and environmental protection. <i>Regional Environmental Change</i> , 2017, 17, 1217-1227.	1.4	67
112	Atmospheric nitrogen deposition to China: A model analysis on nitrogen budget and critical load exceedance. <i>Atmospheric Environment</i> , 2017, 153, 32-40.	1.9	152
113	Photon-Driven Nitrogen Fixation: Current Progress, Thermodynamic Considerations, and Future Outlook. <i>ACS Catalysis</i> , 2017, 7, 2624-2643.	5.5	445
114	Use of CRISPR/Cas9 for Symbiotic Nitrogen Fixation Research in Legumes. <i>Progress in Molecular Biology and Translational Science</i> , 2017, 149, 187-213.	0.9	24

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115	Highly productive forage legume stands show no positive biodiversity effect on yield and N <sub>2</sub> -fixation. <i>Plant and Soil</i> , 2017, 417, 169-182.	1.8	13
116	Nitrogen transformation under different dissolved oxygen levels by the anoxygenic phototrophic bacterium <i>Marichromatium gracile</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2017, 33, 113.	1.7	10
117	Human pressures and ecological status of European rivers. <i>Scientific Reports</i> , 2017, 7, 205.	1.6	142
118	Edaphic Conditions Regulate Denitrification Directly and Indirectly by Altering Denitrifier Abundance in Wetlands along the Han River, China. <i>Environmental Science &amp; Technology</i> , 2017, 51, 5483-5491.	4.6	79
119	Linkages of plant stoichiometry to ecosystem production and carbon fluxes with increasing nitrogen inputs in an alpine steppe. <i>Global Change Biology</i> , 2017, 23, 5249-5259.	4.2	70
120	Biochar amendment reduces paddy soil nitrogen leaching but increases net global warming potential in Ningxia irrigation, China. <i>Scientific Reports</i> , 2017, 7, 1592.	1.6	41
121	How Plant Root Exudates Shape the Nitrogen Cycle. <i>Trends in Plant Science</i> , 2017, 22, 661-673.	4.3	322
122	Carbon fiber paper supported nano-Pt electrode with high electrocatalytic activity for concentrated nitric acid reduction. <i>Journal of Electroanalytical Chemistry</i> , 2017, 794, 43-48.	1.9	8
123	Modeling the terrestrial N processes in a small mountain catchment through INCA-N: A case study in Taiwan. <i>Science of the Total Environment</i> , 2017, 593-594, 319-329.	3.9	13
124	Increased atmospheric ammonia over the world's major agricultural areas detected from space. <i>Geophysical Research Letters</i> , 2017, 44, 2875-2884.	1.5	275
125	Amelioration of saline-sodic soil with gypsum can increase yield and nitrogen use efficiency in rice-wheat cropping system. <i>Archives of Agronomy and Soil Science</i> , 2017, 63, 1267-1280.	1.3	33
126	Unusual marine unicellular symbiosis with the nitrogen-fixing cyanobacterium UCYN-A. <i>Nature Microbiology</i> , 2017, 2, 16214.	5.9	83
127	Improving nitrogen use efficiency with minimal environmental risks using an active canopy sensor in a wheat-maize cropping system. <i>Field Crops Research</i> , 2017, 214, 365-372.	2.3	58
128	Ammonia Emissions May Be Substantially Underestimated in China. <i>Environmental Science &amp; Technology</i> , 2017, 51, 12089-12096.	4.6	160
129	Headwaters to oceans: Ecological and biogeochemical contrasts across the aquatic continuum. <i>Limnology and Oceanography</i> , 2017, 62, S3.	1.6	55
130	Hidden complexities in the reaction of H <sub>2</sub> O <sub>2</sub> and HNO revealed by ab initio quantum chemical investigations. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29549-29560.	1.3	2
131	The Abiotic Nitrogen Cycle. <i>ACS Earth and Space Chemistry</i> , 2017, 1, 411-421.	1.2	43
132	Is nitrogen the next carbon?. <i>Earth's Future</i> , 2017, 5, 894-904.	2.4	182



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133	Nitric Oxide Mediates Nitrite-Sensing and Acclimation and Triggers a Remodeling of Lipids. <i>Plant Physiology</i> , 2017, 175, 1407-1423.	2.3	38
134	Land use mediates riverine nitrogen export under the dominant influence of human activities. <i>Environmental Research Letters</i> , 2017, 12, 094018.	2.2	21
135	Complete Genome Sequence of <i>Mesorhizobium ciceri</i> bv. <i>biserrulae</i> WSM1497, an Efficient Nitrogen-Fixing Microsymbiont of the Forage Legume <i>Biserrula pelecinus</i> . <i>Genome Announcements</i> , 2017, 5, .	0.8	6
136	Amplifying Progress toward Multiple Development Goals through Resource Recovery from Sanitation. <i>Environmental Science &amp; Technology</i> , 2017, 51, 10765-10776.	4.6	70
137	Deposition of sulphur and nitrogen in Europe 1900–2050. Model calculations and comparison to historical observations. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 69, 1328945.	0.8	147
138	Modeling dry deposition of reactive nitrogen in China with RAMS-CMAQ. <i>Atmospheric Environment</i> , 2017, 166, 47-61.	1.9	26
139	Effluent Gas Flux Characterization during Pyrolysis of Chicken Manure. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7568-7575.	3.2	4
140	A database of georeferenced nutrient chemistry data for mountain lakes of the Western United States. <i>Scientific Data</i> , 2017, 4, 170069.	2.4	8
141	Mapping impact indicators to link airborne ammonia emissions with nitrogen deposition in Natura 2000 sites. <i>Atmospheric Environment</i> , 2017, 166, 120-129.	1.9	7
142	Molecular Catalysts for N <sub>2</sub> Reduction: State of the Art, Mechanism, and Challenges. <i>ChemPhysChem</i> , 2017, 18, 2606-2617.	1.0	83
143	Global negative emissions capacity of ocean macronutrient fertilization. <i>Environmental Research Letters</i> , 2017, 12, 035001.	2.2	23
144	Atmospheric deposition of inorganic nitrogen in a semi-arid grassland of Inner Mongolia, China. <i>Journal of Arid Land</i> , 2017, 9, 810-822.	0.9	19
145	Extreme enrichment in atmospheric <sup>15</sup> N. <i>Science Advances</i> , 2017, 3, eaao6741.	4.7	31
146	Global patterns of nitrate storage in the vadose zone. <i>Nature Communications</i> , 2017, 8, 1416.	5.8	233
147	Nitrogen deposition reduces the cover of biocrust-forming lichens and soil pigment content in a semiarid Mediterranean shrubland. <i>Environmental Science and Pollution Research</i> , 2017, 24, 26172-26184.	2.7	7
148	Organic carbon causes interference with nitrate and nitrite measurements by UV/Vis spectrometers: the importance of local calibration. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 357.	1.3	6
149	Nitrogen transformations in modern agriculture and the role of biological nitrification inhibition. <i>Nature Plants</i> , 2017, 3, 17074.	4.7	376
150	Woody-plant ecosystems under climate change and air pollution—response consistencies across zonobiomes?. <i>Tree Physiology</i> , 2017, 37, 706-732.	1.4	13

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151	Nitrification inhibitors mitigate N <sub>2</sub> O emissions more effectively under straw-induced conditions favoring denitrification. <i>Soil Biology and Biochemistry</i> , 2017, 104, 197-207.	4.2	98
152	The Influence of the Host Plant Is the Major Ecological Determinant of the Presence of Nitrogen-Fixing Root Nodule Symbiont Cluster II Frankia Species in Soil. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	10
153	Nitrogen footprints: Regional realities and options to reduce nitrogen loss to the environment. <i>Ambio</i> , 2017, 46, 129-142.	2.8	102
154	Land management: data availability and process understanding for global change studies. <i>Global Change Biology</i> , 2017, 23, 512-533.	4.2	142
155	Connecting crop models with highly resolved sensor observations to improve site-specific fertilisation. <i>Advances in Animal Biosciences</i> , 2017, 8, 689-693.	1.0	4
156	Responses of surface ozone air quality to anthropogenic nitrogen deposition in the Northern Hemisphere. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 9781-9796.	1.9	16
157	Phenotypic Plasticity Explains Response Patterns of European Beech ( <i>Fagus sylvatica</i> L.) Saplings to Nitrogen Fertilization and Drought Events. <i>Forests</i> , 2017, 8, 91.	0.9	13
158	Impacts of Nitrogen and Phosphorus: From Genomes to Natural Ecosystems and Agriculture. <i>Frontiers in Ecology and Evolution</i> , 2017, 5, .	1.1	168
159	Editorial: The Impact of Microorganisms on Consumption of Atmospheric Trace Gases. <i>Frontiers in Microbiology</i> , 2017, 8, 1856.	1.5	2
160	Denitrification and Biodiversity of Denitrifiers in a High-Mountain Mediterranean Lake. <i>Frontiers in Microbiology</i> , 2017, 8, 1911.	1.5	23
161	Nitrogen Inputs From Biological Nitrogen Fixation in Indian Agriculture. , 2017, , 117-132.		8
162	Validation of the CrIS fast physical NH <sub>3</sub> retrieval with ground-based FTIR. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2645-2667.	1.2	52
163	Complementing the topsoil information of the Land Use/Land Cover Area Frame Survey (LUCAS) with modelled N <sub>2</sub> O emissions. <i>PLoS ONE</i> , 2017, 12, e0176111.	1.1	23
164	Abiotic nitrate loss and nitrogenous trace gas emission from Chinese acidic forest soils. <i>Environmental Science and Pollution Research</i> , 2017, 24, 22679-22687.	2.7	11
165	Curriculum vitae of the LOTOS-EUROS (v2.0) chemistry transport model. <i>Geoscientific Model Development</i> , 2017, 10, 4145-4173.	1.3	100
166	Process-based modelling of NH <sub>3</sub> exchange with grazed grasslands. <i>Biogeosciences</i> , 2017, 14, 4161-4193.	1.3	4
167	Plant functional diversity modulates global environmental change effects on grassland productivity. <i>Journal of Ecology</i> , 2018, 106, 1941-1951.	1.9	61
168	Assessing future reactive nitrogen inputs into global croplands based on the shared socioeconomic pathways. <i>Environmental Research Letters</i> , 2018, 13, 044008.	2.2	61

#	ARTICLE	IF	CITATIONS
169	Unifying the global phylogeny and environmental distribution of ammonia-oxidising archaea based on amoA genes. <i>Nature Communications</i> , 2018, 9, 1517.	5.8	256
170	A critical review on membrane hybrid system for nutrient recovery from wastewater. <i>Chemical Engineering Journal</i> , 2018, 348, 143-156.	6.6	145
171	Reactive nitrogen: A perspective on its global impact and prospects for its sustainable production. <i>Sustainable Production and Consumption</i> , 2018, 15, 35-48.	5.7	21
172	Differential effects of warming and nitrogen fertilization on soil respiration and microbial dynamics in switchgrass croplands. <i>GCB Bioenergy</i> , 2018, 10, 565-576.	2.5	21
173	Wet deposition of atmospheric nitrogen contributes to nitrogen loading in the surface waters of Lake Tanganyika, East Africa: a case study of the Kigoma region. <i>Environmental Science and Pollution Research</i> , 2018, 25, 11646-11660.	2.7	11
174	Modeling the forest phosphorus nutrition in a southwestern Swedish forest site. <i>Ecological Modelling</i> , 2018, 369, 88-100.	1.2	24
175	From Production to Consumption: A Coupled Human-Environmental Nitrogen Flow Analysis in China. <i>Environmental Science &amp; Technology</i> , 2018, 52, 2025-2035.	4.6	41
176	Open-channel measurement of denitrification in a large lowland river. <i>Aquatic Sciences</i> , 2018, 80, 1.	0.6	21
177	N-fertilizer-driven association between the arbuscular mycorrhizal fungal community and diazotrophic community impacts wheat yield. <i>Agriculture, Ecosystems and Environment</i> , 2018, 254, 191-201.	2.5	57
178	Cleaning up nitrogen pollution may reduce future carbon sinks. <i>Global Environmental Change</i> , 2018, 48, 56-66.	3.6	33
179	Nitrogen distribution in a tropical urbanized estuarine system in northeastern Brazil. <i>Environmental Monitoring and Assessment</i> , 2018, 190, 68.	1.3	5
180	Changing Land-, Sea-, and Airscapes: Sources of Nutrient Pollution Affecting Habitat Suitability for Harmful Algae. <i>Ecological Studies</i> , 2018, , 53-76.	0.4	25
181	What plant functional traits can reduce nitrous oxide emissions from intensively managed grasslands?. <i>Global Change Biology</i> , 2018, 24, e248-e258.	4.2	67
182	Global-scale impacts of nitrogen deposition on tree carbon sequestration in tropical, temperate, and boreal forests: A meta-analysis. <i>Global Change Biology</i> , 2018, 24, e416-e431.	4.2	208
183	Atmospheric nitrogen deposition in the Yangtze River basin: Spatial pattern and source attribution. <i>Environmental Pollution</i> , 2018, 232, 546-555.	3.7	79
184	Food nitrogen footprint reductions related to a balanced Japanese diet. <i>Ambio</i> , 2018, 47, 318-326.	2.8	33
185	Microbial Nitrogen Cycling in Estuaries: From Genes to Ecosystem Processes. <i>Estuaries and Coasts</i> , 2018, 41, 626-660.	1.0	100
186	Nitrification inhibitors mitigated reactive gaseous nitrogen intensity in intensive vegetable soils from China. <i>Science of the Total Environment</i> , 2018, 612, 480-489.	3.9	63

#	ARTICLE	IF	CITATIONS
187	Soil pH as the chief modifier for regional nitrous oxide emissions: New evidence and implications for global estimates and mitigation. <i>Global Change Biology</i> , 2018, 24, e617-e626.	4.2	147
188	Representing sub-grid scale variations in nitrogen deposition associated with land use in a global Earth system model: implications for present and future nitrogen deposition fluxes over North America. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17963-17978.	1.9	25
189	High denitrification and anaerobic ammonium oxidation contributes to net nitrogen loss in a seagrass ecosystem in the central Red Sea. <i>Biogeosciences</i> , 2018, 15, 7333-7346.	1.3	19
190	Surface-atmosphere exchange of inorganic water-soluble gases and associated ions in bulk aerosol above agricultural grassland pre- and postfertilisation. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16953-16978.	1.9	11
191	Nitrogen regulation by natural systems in "unnatural" landscapes: denitrification in ultra-urban coastal ecosystems. <i>Ecosystem Health and Sustainability</i> , 2018, 4, 205-224.	1.5	14
192	Nitrogen dioxide and formaldehyde measurements from the GEOSTationary Coastal and Air Pollution Events (GEO-CAPE) Airborne Simulator over Houston, Texas. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5941-5964.	1.2	39
193	Material Flow Analysis of Nitrogen Around Industries in Japan from 2005 to 2015. <i>Journal of Life Cycle Assessment Japan</i> , 2018, 14, 319-331.	0.0	2
194	Mapping Portuguese Natura 2000 sites in risk of biodiversity change caused by atmospheric nitrogen pollution. <i>PLoS ONE</i> , 2018, 13, e0198955.	1.1	3
195	Approaches to understanding the ecology and evolution of understudied terrestrial archaeal ammonia-oxidisers. <i>Emerging Topics in Life Sciences</i> , 2018, 2, 619-628.	1.1	10
196	Impact of multiple disturbances and stress on the temporal trajectories and resilience of benthic intertidal communities. <i>Ecosphere</i> , 2018, 9, e02467.	1.0	13
197	Piling up reactive nitrogen and declining nitrogen use efficiency in Pakistan: a challenge not challenged (1961-2013). <i>Environmental Research Letters</i> , 2018, 13, 034012.	2.2	44
198	Increased nitrogen supply promoted the growth of non-N-fixing woody legume species but not the growth of N-fixing <i>Robinia pseudoacacia</i> . <i>Scientific Reports</i> , 2018, 8, 17896.	1.6	18
199	Recent Progress of Plasma-Assisted Nitrogen Fixation Research: A Review. <i>Processes</i> , 2018, 6, 248.	1.3	88
200	The agrarian metabolism as a tool for assessing agrarian sustainability, and its application to Spanish agriculture (1960-2008). <i>Ecology and Society</i> , 2018, 23, .	1.0	20
201	Variation of bacterial community associated with <i>Phaeodactylum tricornutum</i> in response to different inorganic nitrogen concentrations. <i>Acta Oceanologica Sinica</i> , 2018, 37, 118-128.	0.4	4
202	Cyanobacteria as photoautotrophic biofactories of high-value chemicals. <i>Journal of CO2 Utilization</i> , 2018, 28, 335-366.	3.3	71
203	Atmospheric Nitrogen Deposition Associated with the Eutrophication of Taihu Lake. <i>Journal of Chemistry</i> , 2018, 2018, 1-10.	0.9	18
204	Health and nutritional aspects of sustainable diet strategies and their association with environmental impacts: a global modelling analysis with country-level detail. <i>Lancet Planetary Health</i> , The, 2018, 2, e451-e461.	5.1	475

#	ARTICLE	IF	CITATIONS
205	Public Water Supply Is Responsible for Significant Fluxes of Inorganic Nitrogen in the Environment. <i>Environmental Science &amp; Technology</i> , 2018, 52, 14050-14060.	4.6	3
206	Technical note: How are NH <sub>3</sub> dry deposition estimates affected by combining the LOTOS-EUROS model with IASI-NH <sub>3</sub> satellite observations?. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13173-13196.	1.9	12
207	New Breeding Techniques for Greenhouse Gas (GHG) Mitigation: Plants May Express Nitrous Oxide Reductase. <i>Climate</i> , 2018, 6, 80.	1.2	4
208	Isotopic evidence for oligotrophication of terrestrial ecosystems. <i>Nature Ecology and Evolution</i> , 2018, 2, 1735-1744.	3.4	138
209	The role of conserved proteins DrpA and DrpB in nitrate respiration of <i>Thermus thermophilus</i> . <i>Environmental Microbiology</i> , 2018, 20, 3851-3861.	1.8	3
210	Can Incorporating Brassica Tissues into Soil Reduce Nitrification Rates and Nitrous Oxide Emissions?. <i>Journal of Environmental Quality</i> , 2018, 47, 1436-1444.	1.0	2
211	Continental soil drivers of ammonium and nitrate in Australia. <i>Soil</i> , 2018, 4, 213-224.	2.2	5
212	Spatial-temporal patterns of inorganic nitrogen air concentrations and deposition in eastern China. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10931-10954.	1.9	65
213	Effectiveness of ammonia reduction on control of fine particle nitrate. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12241-12256.	1.9	120
214	Effect of nitrogen fertilization on the abundance of nitrogen cycling genes in agricultural soils: A meta-analysis of field studies. <i>Soil Biology and Biochemistry</i> , 2018, 127, 71-78.	4.2	254
215	Towards defining an environmental investment universe within planetary boundaries. <i>Sustainability Science</i> , 2018, 13, 1031-1044.	2.5	17
216	A flexible, redox-active macrocycle enables the electrocatalytic reduction of nitrate to ammonia by a cobalt complex. <i>Chemical Science</i> , 2018, 9, 4950-4958.	3.7	63
217	A critical review on ammonium recovery from wastewater for sustainable wastewater management. <i>Bioresource Technology</i> , 2018, 268, 749-758.	4.8	176
218	Nitrate-Dependent Iron Oxidation: A Potential Mars Metabolism. <i>Frontiers in Microbiology</i> , 2018, 9, 513.	1.5	46
219	Evaluation of Primers Targeting the Diazotroph Functional Gene and Development of NifMAP – A Bioinformatics Pipeline for Analyzing nifH Amplicon Data. <i>Frontiers in Microbiology</i> , 2018, 9, 703.	1.5	50
220	Towards the Response Threshold for p-Hydroxyacetophenone in the Denitrifying Bacterium <i>Aromatoleum aromaticum</i> N1. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	6
221	Revealing the Sources of Atmospheric Ammonia: a Review. <i>Current Pollution Reports</i> , 2018, 4, 189-197.	3.1	28
222	An Integrated Approach to a Nitrogen Use Efficiency (NUE) Indicator for the Food Production-Consumption Chain. <i>Sustainability</i> , 2018, 10, 925.	1.6	62

#	ARTICLE	IF	CITATIONS
223	Using urease and nitrification inhibitors to decrease ammonia and nitrous oxide emissions and improve productivity in a subtropical pasture. <i>Science of the Total Environment</i> , 2018, 644, 1531-1535.	3.9	48
224	Comparative Transcriptomic Analysis of Two Actinorhizal Plants and the Legume <i>Medicago truncatula</i> Supports the Homology of Root Nodule Symbioses and Is Congruent With a Two-Step Process of Evolution in the Nitrogen-Fixing Clade of Angiosperms. <i>Frontiers in Plant Science</i> , 2018, 9, 1256.	1.7	38
225	Addressing agricultural nitrogen losses in a changing climate. <i>Nature Sustainability</i> , 2018, 1, 399-408.	11.5	175
226	Recirculation of human-derived nutrients from cities to agriculture across six continents. <i>Nature Sustainability</i> , 2018, 1, 427-435.	11.5	97
227	Has Submerged Vegetation Loss Altered Sediment Denitrification, $N_2O$ Production, and Denitrifying Microbial Communities in Subtropical Lakes?. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1195-1207.	1.9	15
228	The sweet side of global change—dynamic responses of non-structural carbohydrates to drought, elevated $CO_2$ and nitrogen fertilization in tree species. <i>Tree Physiology</i> , 2018, 38, 1706-1723.	1.4	51
229	Nitrogen inputs drive nitrogen concentrations in U.S. streams and rivers during summer low flow conditions. <i>Science of the Total Environment</i> , 2018, 639, 1349-1359.	3.9	36
230	Impact of Global Changes on Soil C Storage—Possible Mechanisms and Modeling Approaches. , 2018, , 245-279.		1
231	$NO_x$ instrument intercomparison for laboratory biomass burning source studies and urban ambient measurements in Albuquerque, New Mexico. <i>Journal of the Air and Waste Management Association</i> , 2018, 68, 1175-1189.	0.9	6
232	Field evaluations of agrochemical toxicity to cyanobacteria in rice field ecosystem: a review. <i>Journal of Applied Phycology</i> , 2019, 31, 471-489.	1.5	15
233	What ecotechnologies exist for recycling carbon and nutrients from domestic wastewater? A systematic map protocol. <i>Environmental Evidence</i> , 2019, 8, .	1.1	46
234	Toward the improvement of total nitrogen deposition budgets in the United States. <i>Science of the Total Environment</i> , 2019, 691, 1328-1352.	3.9	29
235	The Role of $N_2$ as a Geo-Biosignature for the Detection and Characterization of Earth-like Habitats. <i>Astrobiology</i> , 2019, 19, 927-950.	1.5	38
236	Nitrogen balance of crop production in Ukraine. <i>Journal of Environmental Management</i> , 2019, 246, 860-867.	3.8	9
237	Intramolecular Hydrogen Bonding Facilitates Electrocatalytic Reduction of Nitrite in Aqueous Solutions. <i>Inorganic Chemistry</i> , 2019, 58, 9443-9451.	1.9	40
238	The Nitrification Inhibitor Vizura® Reduces $N_2O$ Emissions When Added to Digestate before Injection under Irrigated Maize in the Po Valley (Northern Italy). <i>Agronomy</i> , 2019, 9, 431.	1.3	12
239	Relative Abundance of Ammonia Oxidizing Archaea and Bacteria Influences Soil Nitrification Responses to Temperature. <i>Microorganisms</i> , 2019, 7, 526.	1.6	16
240	Changing ocean systems: A short synthesis. , 2019, , 19-34.		2

#	ARTICLE	IF	CITATIONS
241	Application of Stable Isotopes of Water to Study Coupled Submarine Groundwater Discharge and Nutrient Delivery. <i>Water (Switzerland)</i> , 2019, 11, 1842.	1.2	13
242	Tracking down global NH <sub>3</sub> point sources with wind-adjusted superresolution. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5457-5473.	1.2	39
243	Nitric oxide scavenging of hydroxyl radicals in a nanosecond pulsed plasma discharge gas-liquid reactor. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 504002.	1.3	12
244	Biological removal of nitrogen oxides by microalgae, a promising strategy from nitrogen oxides to protein production. <i>Bioresource Technology</i> , 2019, 292, 122037.	4.8	29
245	Magnitude and influence of atmospheric phosphorus deposition on the southern Baltic Sea coast over 23 years: implications for coastal waters. <i>Environmental Sciences Europe</i> , 2019, 31, .	2.6	30
246	Linkages of stoichiometric imbalances to soil microbial respiration with increasing nitrogen addition: Evidence from a long-term grassland experiment. <i>Soil Biology and Biochemistry</i> , 2019, 138, 107580.	4.2	86
247	Controls and Adaptive Management of Nitrification in Agricultural Soils. <i>Frontiers in Microbiology</i> , 2019, 10, 1931.	1.5	177
248	The responses of extracellular enzyme activities and microbial community composition under nitrogen addition in an upland soil. <i>PLoS ONE</i> , 2019, 14, e0223026.	1.1	43
249	Prospects of using biomass of N <sub>2</sub> -fixing cyanobacteria as an organic fertilizer and soil conditioner. <i>Algal Research</i> , 2019, 43, 101652.	2.4	24
250	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.	4.6	72
251	What is the most ecologically-meaningful metric of nitrogen deposition?. <i>Environmental Pollution</i> , 2019, 247, 319-331.	3.7	15
252	Fertilizer nitrogen loss via N <sub>2</sub> emission from calcareous soil following basal urea application of winter wheat. <i>Atmospheric and Oceanic Science Letters</i> , 2019, 12, 91-97.	0.5	3
253	N-Isotopes in Feathers and Abundance of Eiders Respond to Nutrients in Seawater. <i>Ecosystems</i> , 2019, 22, 1271-1279.	1.6	2
254	Unfair trade underground revealed by integrating data with Nash bargaining models. <i>New Phytologist</i> , 2019, 222, 1325-1337.	3.5	8
255	Seasonal pattern of ammonium 15N natural abundance in precipitation at a rural forested site and implications for NH <sub>3</sub> source partitioning. <i>Environmental Pollution</i> , 2019, 247, 541-549.	3.7	36
256	N <sub>2</sub> O emissions and NO <sub>3</sub> <sup>-</sup> leaching from two contrasting regions in Austria and influence of soil, crops and climate: a modelling approach. <i>Nutrient Cycling in Agroecosystems</i> , 2019, 113, 95-111.	1.1	31
257	Budgeting nitrogen flows and the food nitrogen footprint of Egypt during the past half century: Challenges and opportunities. <i>Environment International</i> , 2019, 130, 104895.	4.8	44
258	Aquatic ecosystem changes in a global biodiversity hotspot: Evidence from the Albertine Rift, central Africa. <i>Journal of Biogeography</i> , 2019, 46, 2098-2114.	1.4	3

#	ARTICLE	IF	CITATIONS
259	Resource recovery from sanitation to enhance ecosystem services. <i>Nature Sustainability</i> , 2019, 2, 681-690.	11.5	47
260	Sunlight-driven recycling to increase nutrient use-efficiency in agriculture. <i>Algal Research</i> , 2019, 41, 101554.	2.4	12
261	Systems thinking for education about the molecular basis of sustainability. <i>Nature Sustainability</i> , 2019, 2, 362-370.	11.5	95
262	Stabilization of atmospheric nitrogen deposition in China over the past decade. <i>Nature Geoscience</i> , 2019, 12, 424-429.	5.4	490
263	Aligning Product Chemistry and Soil Context for Agronomic Reuse of Human-Derived Resources. <i>Environmental Science &amp; Technology</i> , 2019, 53, 6501-6510.	4.6	28
264	The breadth of climate change impacts on biological systems. <i>Emerging Topics in Life Sciences</i> , 2019, 3, 107-113.	1.1	2
265	<i>Azospirillum brasilense</i> promotes increases in growth and nitrogen use efficiency of maize genotypes. <i>PLoS ONE</i> , 2019, 14, e0215332.	1.1	108
266	Residual effects of fertilizer N response to split N applications in semiarid farmland. <i>Nutrient Cycling in Agroecosystems</i> , 2019, 114, 99-110.	1.1	5
267	Soil Carbon and Nitrogen Dynamics in Two Agricultural Soils Amended with Manure-Derived Biochar. <i>Journal of Environmental Quality</i> , 2019, 48, 727-734.	1.0	14
268	Qualitative and Quantitative Aspects of the Modern Nitrogen Cycle. <i>Advances in Environmental Microbiology</i> , 2019, , 31-63.	0.1	0
269	Atmospheric ammonia (NH <sub>3</sub> ) emanations from Lake Natron's saline mudflats. <i>Scientific Reports</i> , 2019, 9, 4441.	1.6	24
270	Managing Ecosystem Services with Cover Crop Mixtures on Organic Farms. <i>Agronomy Journal</i> , 2019, 111, 826-840.	0.9	21
271	Enhanced microbial nitrogen transformations in association with macrobiota from the rocky intertidal. <i>Biogeosciences</i> , 2019, 16, 193-206.	1.3	13
272	Wintertime distribution and atmospheric interactions of reactive nitrogen species along the urban transect of Delhi - NCR. <i>Atmospheric Environment</i> , 2019, 209, 40-53.	1.9	9
273	Differing perceptions of socio-ecological systems: Insights for future transdisciplinary research. <i>Advances in Ecological Research</i> , 2019, 60, 153-190.	1.4	13
274	Atmospheric nitrogen deposition to global forests: Status, impacts and management options. <i>Environmental Pollution</i> , 2019, 250, 1044-1048.	3.7	38
275	Anthropogenic nitrogen inputs and impacts on oceanic N <sub>2</sub> O fluxes in the northern Indian Ocean: The need for an integrated observation and modelling approach. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019, 166, 104-113.	0.6	9
276	Trait identity and functional diversity co-drive response of ecosystem productivity to nitrogen enrichment. <i>Journal of Ecology</i> , 2019, 107, 2402-2414.	1.9	45



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277	Sustainable Pathways for Meeting Future Food Demand. , 2019, , 14-20.		5
278	Nitrogen in the environment. <i>Science</i> , 2019, 363, 578-580.	6.0	242
279	Variation in N <sub>2</sub> O emission and N <sub>2</sub> O related microbial functional genes in straw- and biochar-amended and non-amended soils. <i>Applied Soil Ecology</i> , 2019, 137, 57-68.	2.1	65
280	Fire-derived organic matter retains ammonia through covalent bond formation. <i>Nature Communications</i> , 2019, 10, 664.	5.8	38
281	Foliar uptake of atmospheric nitrate by two dominant subalpine plants: insights from in situ triple- $\delta^{15}\text{N}$ isotope analysis. <i>New Phytologist</i> , 2019, 223, 1784-1794.	3.5	15
282	Well-Aerated Southern Appalachian Forest Soils Demonstrate Significant Potential for Gaseous Nitrogen Loss. <i>Forests</i> , 2019, 10, 1155.	0.9	4
284	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.	1.9	89
285	An Integrated Agriculture, Atmosphere, and Hydrology Modeling System for Ecosystem Assessments. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4645-4668.	1.3	12
286	Wet tropical soils and global change. <i>Developments in Soil Science</i> , 2019, 36, 131-169.	0.5	6
287	Biochar Is Comparable to Dicyandiamide in the Mitigation of Nitrous Oxide Emissions from <i>Camellia oleifera</i> Abel. <i>Fields. Forests</i> , 2019, 10, 1076.	0.9	24
288	Nitrogen Dynamics in an Established Alfalfa Field under Low Biochar Application Rates. <i>Soil Systems</i> , 2019, 3, 77.	1.0	6
289	Genetic strategies for improving crop yields. <i>Nature</i> , 2019, 575, 109-118.	13.7	799
290	Production of annual ryegrass with different doses of nitrogen fertilization in topdressing. <i>Semina: Ciencias Agrarias</i> , 2019, 40, 1329.	0.1	0
291	Nitrogen use efficiency and N <sub>2</sub> O and NH <sub>3</sub> losses attributed to three fertiliser types applied to an intensively managed silage crop. <i>Biogeosciences</i> , 2019, 16, 4731-4745.	1.3	14
293	Di- and trivalent chromium bis(pyrazol-3-yl)pyridine pincer complexes with good leaving groups. <i>Inorganica Chimica Acta</i> , 2019, 486, 483-491.	1.2	11
294	Atmospheric nitrogen deposition impacts on the structure and function of forest mycorrhizal communities: A review. <i>Environmental Pollution</i> , 2019, 246, 148-162.	3.7	147
295	Research on the nitrogen transformation in rhizosphere of winter wheat ( <i>Triticum aestivum</i> ) under molybdenum addition. <i>Environmental Science and Pollution Research</i> , 2019, 26, 2363-2374.	2.7	10
296	Comparison of ammonia emissions related to nitrogen use efficiency of livestock production in Europe. <i>Journal of Cleaner Production</i> , 2019, 211, 1162-1170.	4.6	44

#	ARTICLE	IF	CITATIONS
297	Variations of soil nitrogen-fixing microorganism communities and nitrogen fractions in a Robinia pseudoacacia chronosequence on the Loess Plateau of China. <i>Catena</i> , 2019, 174, 316-323.	2.2	52
298	Promoting Nitrogen Electroreduction on Mo <sub>2</sub> C Nanoparticles Highly Dispersed on N-Doped Carbon Nanosheets toward Rechargeable Li-N <sub>2</sub> Batteries. <i>Small Methods</i> , 2019, 3, 1800334.	4.6	36
299	Nitrogen addition does not reduce the role of spatial asynchrony in stabilising grassland communities. <i>Ecology Letters</i> , 2019, 22, 563-571.	3.0	75
300	Anaerobic ammonium oxidation in marine environments: contribution to biogeochemical cycles and biotechnological developments for wastewater treatment. <i>Reviews in Environmental Science and Biotechnology</i> , 2019, 18, 11-27.	3.9	24
301	Molecular Hydrogen, a Neglected Key Driver of Soil Biogeochemical Processes. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	48
302	To Fix or Not To Fix: Controls on Free-Living Nitrogen Fixation in the Rhizosphere. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	97
303	Toward a Generic Analytical Framework for Sustainable Nitrogen Management: Application for China. <i>Environmental Science &amp; Technology</i> , 2019, 53, 1109-1118.	4.6	27
304	Controls of the spatial variability of denitrification potential in nontidal floodplains of the Chesapeake Bay watershed, USA. <i>Geoderma</i> , 2019, 338, 14-29.	2.3	15
305	Nitrogen deposition and climate change effects on tree species composition and ecosystem services for a forest cohort. <i>Ecological Monographs</i> , 2019, 89, e01345.	2.4	21
306	Global Estimates of Inorganic Nitrogen Deposition Across Four Decades. <i>Global Biogeochemical Cycles</i> , 2019, 33, 100-107.	1.9	249
307	The influence of rising tropospheric carbon dioxide and ozone on plant productivity. <i>Plant Biology</i> , 2020, 22, 5-11.	1.8	86
308	Nitrogen and phosphorus retention in Danish restored wetlands. <i>Ambio</i> , 2020, 49, 324-336.	2.8	36
309	The importance of denitrification performed by nitrogen-fixing bacteria used as inoculants in South America. <i>Plant and Soil</i> , 2020, 451, 5-24.	1.8	17
310	Long-term phosphorus addition downregulates microbial investments on enzyme productions in a mature tropical forest. <i>Journal of Soils and Sediments</i> , 2020, 20, 921-930.	1.5	15
311	Global change biology: A primer. <i>Global Change Biology</i> , 2020, 26, 3-30.	4.2	172
312	Biofixation of atmospheric nitrogen in the context of world staple crop production: Policy perspectives. <i>Science of the Total Environment</i> , 2020, 701, 134945.	3.9	16
313	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. <i>Environmental Pollution</i> , 2020, 256, 113428.	3.7	63
314	Macroalgal Bioindicators of Recovery from Eutrophication in a Tidal Lagoon Following Wastewater Diversion and Earthquake Disturbance. <i>Estuaries and Coasts</i> , 2020, 43, 240-255.	1.0	12

#	ARTICLE	IF	CITATIONS
315	Anthropogenic global shifts in biospheric N and P concentrations and ratios and their impacts on biodiversity, ecosystem productivity, food security, and human health. <i>Global Change Biology</i> , 2020, 26, 1962-1985.	4.2	138
316	Combined application of organic manure with urea does not alter the dominant biochemical pathway producing N <sub>2</sub> O from urea treated soil. <i>Biology and Fertility of Soils</i> , 2020, 56, 331-343.	2.3	14
317	Spatial and seasonal patterns of atmospheric nitrogen deposition in North China. <i>Atmospheric and Oceanic Science Letters</i> , 2020, 13, 188-194.	0.5	11
318	Nitrous oxide emission factors of mineral fertilisers in the UK and Ireland: A Bayesian analysis of 20 years of experimental data. <i>Environment International</i> , 2020, 135, 105366.	4.8	30
319	Application of <sup>15</sup> N to trace the impact of penguin guano on terrestrial and aquatic nitrogen cycles in Victoria Land, Ross Sea region, Antarctica. <i>Science of the Total Environment</i> , 2020, 709, 134496.	3.9	6
320	Effects of nitrogen enrichment on tree carbon allocation: A global synthesis. <i>Global Ecology and Biogeography</i> , 2020, 29, 573-589.	2.7	66
321	Inoculation of diazotrophic bacteria modifies the growth rate and grain yield of maize at different levels of nitrogen supply. <i>Archives of Agronomy and Soil Science</i> , 2020, 66, 1948-1962.	1.3	6
322	Short-Term Nitrogen Fertilization Affects Microbial Community Composition and Nitrogen Mineralization Functions in an Agricultural Soil. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	49
323	Differential effects of grazing, water, and nitrogen addition on soil respiration and its components in a meadow steppe. <i>Plant and Soil</i> , 2020, 447, 581-598.	1.8	26
324	Nitrogen Cycling and Soil Amelioration in <i>Camellia oleifera</i> Plantations. , 2020, , .		0
325	A reactive nitrogen budget for forest land and wetlands in Latvia and Estonia. <i>Scandinavian Journal of Forest Research</i> , 2020, 35, 513-522.	0.5	1
326	Quantification of Biologically Fixed Nitrogen by White Lupin ( <i>Lupinus albus</i> L.) and Its Subsequent Uptake by Winter Wheat Using the <sup>15</sup> N Isotope Dilution Method. <i>Agronomy</i> , 2020, 10, 1392.	1.3	10
327	Molecular and ecological perspectives of nitrous oxide producing microbial communities in agro-ecosystems. <i>Reviews in Environmental Science and Biotechnology</i> , 2020, 19, 717-750.	3.9	41
328	Extraordinary human energy consumption and resultant geological impacts beginning around 1950 CE initiated the proposed Anthropocene Epoch. <i>Communications Earth &amp; Environment</i> , 2020, 1, .	2.6	101
329	Conservation tillage enhances crop productivity and decreases soil nitrogen losses in a rainfed agroecosystem of the Loess Plateau, China. <i>Journal of Cleaner Production</i> , 2020, 274, 122854.	4.6	43
330	Temporal and spatial patterns of nitrogen wet deposition in different weather types in the Pearl River Delta (PRD), China. <i>Science of the Total Environment</i> , 2020, 740, 139936.	3.9	14
331	Iron-Only and Vanadium Nitrogenases: Fail-Safe Enzymes or Something More?. <i>Annual Review of Microbiology</i> , 2020, 74, 247-266.	2.9	51
332	Land-use type, and land management and disturbance affect soil <sup>15</sup> N: a review. <i>Journal of Soils and Sediments</i> , 2020, 20, 3283-3299.	1.5	13

#	ARTICLE	IF	CITATIONS
333	Global Gridded Nitrogen Indicators: Influence of Crop Maps. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006634.	1.9	8
334	Microbial Shifts Following Five Years of Cover Cropping and Tillage Practices in Fertile Agroecosystems. <i>Microorganisms</i> , 2020, 8, 1773.	1.6	10
335	Nitrogen Cycling and Mass Balance in the World's Mangrove Forests. <i>Nitrogen</i> , 2020, 1, 167-189.	0.6	28
336	How Do Soil Bacterial Diversity and Community Composition Respond under Recommended and Conventional Nitrogen Fertilization Regimes?. <i>Microorganisms</i> , 2020, 8, 1193.	1.6	7
337	Co-application of a biochar and an electric potential accelerates soil nitrate removal while decreasing N <sub>2</sub> O emission. <i>Soil Biology and Biochemistry</i> , 2020, 149, 107946.	4.2	12
338	Biological denitrification in a macrophytic lake: implications for macrophytes-dominated lake management in the north of China. <i>Environmental Science and Pollution Research</i> , 2020, 27, 42460-42471.	2.7	7
339	Nitrogen Recoveries and Nitrogen Use Efficiencies of Organic Fertilizers with Different C/N Ratios in Maize Cultivation with Low-Fertile Soil by 15N Method. <i>Agriculture (Switzerland)</i> , 2020, 10, 272.	1.4	9
340	Reviewing global estimates of surface reactive nitrogen concentration and deposition using satellite retrievals. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8641-8658.	1.9	16
341	During photosynthetic induction, biochemical and stomatal limitations differ between <i>Brassica</i> crops. <i>Plant, Cell and Environment</i> , 2020, 43, 2623-2636.	2.8	21
342	Microalgae biotechnology: A brief introduction. , 2020, , 3-23.		5
343	Global impacts of fertilization and herbivore removal on soil net nitrogen mineralization are modulated by local climate and soil properties. <i>Global Change Biology</i> , 2020, 26, 7173-7185.	4.2	25
344	A data-driven evaluation of lichen climate change indicators in Central Europe. <i>Biodiversity and Conservation</i> , 2020, 29, 3959-3971.	1.2	4
345	A chronology of global air quality. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190314.	1.6	87
346	Spatio-Temporal Variations of Atmospheric NH <sub>3</sub> over East Asia by Comparison of Chemical Transport Model Results, Satellite Retrievals and Surface Observations. <i>Atmosphere</i> , 2020, 11, 900.	1.0	4
347	Who gives a flux? Synchronous flowering of <i>Coffea arabica</i> accelerates leaf litter decomposition. <i>Ecosphere</i> , 2020, 11, e03186.	1.0	4
348	First field estimation of greenhouse gas release from European soil-dwelling Scarabaeidae larvae targeting the genus <i>Melolontha</i> . <i>PLoS ONE</i> , 2020, 15, e0238057.	1.1	3
349	The Journey from Peruvian Guano to Artificial Fertilizer Ends with Too Much Nitrogen in the Chesapeake Bay. <i>Estuaries of the World</i> , 2020, , 177-197.	0.1	0
350	Large Hydrogen Isotope Fractionation Distinguishes Nitrogenase-Derived Methane from Other Methane Sources. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	8

#	ARTICLE	IF	CITATIONS
351	The effect of pH on <i>Marinobacter hydrocarbonoclasticus</i> denitrification pathway and nitrous oxide reductase. <i>Journal of Biological Inorganic Chemistry</i> , 2020, 25, 927-940.	1.1	15
352	Lifestyle adaptations of <i>Rhizobium</i> from rhizosphere to symbiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23823-23834.	3.3	87
353	Spatially Explicit Inventory of Sources of Nitrogen Inputs to the Yellow Sea, East China Sea, and South China Sea for the Period 1970–2010. <i>Earth's Future</i> , 2020, 8, e2020EF001516.	2.4	32
354	QM/MM MD simulations reveal an asynchronous PCET mechanism for nitrite reduction by copper nitrite reductase. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 20922-20928.	1.3	4
355	Optimization of Flavonoid Extraction from Guava Leaves for Application in Reducing Urea Transformation in Soil. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 494, 012012.	0.2	0
356	Increased microbial sequestration of soil organic carbon under nitrogen deposition over China's terrestrial ecosystems. <i>Ecological Processes</i> , 2020, 9, .	1.6	9
357	Comparison of Novel and Established Nitrification Inhibitors Relevant to Agriculture on Soil Ammonia- and Nitrite-Oxidizing Isolates. <i>Frontiers in Microbiology</i> , 2020, 11, 581283.	1.5	21
358	Seasonal Patterns of Dominant Microbes Involved in Central Nutrient Cycles in the Subsurface. <i>Microorganisms</i> , 2020, 8, 1694.	1.6	13
359	Life on Earth is hard to spot. <i>Infrastructure Asset Management</i> , 2020, 7, 248-272.	1.2	33
360	Nitrous Oxide Emissions and Methane Uptake from Organic and Conventionally Managed Arable Crop Rotations on Farms in Northwest Germany. <i>Sustainability</i> , 2020, 12, 3240.	1.6	22
361	Overcoming socioeconomic barriers to reduce agricultural ammonia emission in China. <i>Environmental Science and Pollution Research</i> , 2020, 27, 25813-25817.	2.7	17
362	A Roadmap to the Ammonia Economy. <i>Joule</i> , 2020, 4, 1186-1205.	11.7	782
363	Designing for effective controlled release in agricultural products: new insights into the complex nature of the polymer–active agent relationship and implications for use. <i>Journal of the Science of Food and Agriculture</i> , 2020, 100, 4723-4733.	1.7	6
364	Nitrogen-responsive transcription factor kinetics meter plant growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13196-13198.	3.3	3
365	Global Nitrogen Cycle: Critical Enzymes, Organisms, and Processes for Nitrogen Budgets and Dynamics. <i>Chemical Reviews</i> , 2020, 120, 5308-5351.	23.0	167
366	Looking back in time to reconstruct nitrogen availability trajectories. <i>Global Change Biology</i> , 2020, 26, 5353-5355.	4.2	3
367	Disease in Invasive Plant Populations. <i>Annual Review of Phytopathology</i> , 2020, 58, 97-117.	3.5	11
368	The distribution of functional N-cycle related genes and ammonia and nitrate nitrogen in soil profiles fertilized with mineral and organic N fertilizer. <i>PLoS ONE</i> , 2020, 15, e0228364.	1.1	11

#	ARTICLE	IF	CITATIONS
369	Isotopic Interpretation of Particulate Nitrate in the Metropolitan City of Karachi, Pakistan: Insight into the Oceanic Contribution to NO <sub>x</sub> . Environmental Science & Technology, 2020, 54, 7787-7797.	4.6	20
370	Modeling Soil Nitrate Accumulation and Leaching in Conventional and Conservation Agriculture Cropping Systems. Water (Switzerland), 2020, 12, 1571.	1.2	13
371	Microbial processing of plant remains is co-limited by multiple nutrients in global grasslands. Global Change Biology, 2020, 26, 4572-4582.	4.2	27
372	Reduction of Substrates by Nitrogenases. Chemical Reviews, 2020, 120, 5082-5106.	23.0	234
373	Global response patterns of plant photosynthesis to nitrogen addition: A meta-analysis. Global Change Biology, 2020, 26, 3585-3600.	4.2	139
374	Ammonia should be considered in field experiments mimicking nitrogen deposition. Atmospheric and Oceanic Science Letters, 2020, 13, 248-251.	0.5	9
375	Beneficial soil-borne bacteria and fungi: a promising way to improve plant nitrogen acquisition. Journal of Experimental Botany, 2020, 71, 4469-4479.	2.4	56
376	Quantifying Nutrient Budgets for Sustainable Nutrient Management. Global Biogeochemical Cycles, 2020, 34, e2018GB006060.	1.9	96
377	Aggravation of reactive nitrogen flow driven by human production and consumption in Guangzhou City China. Nature Communications, 2020, 11, 1209.	5.8	43
378	Coral skeletons reveal the history of nitrogen cycling in the coastal Great Barrier Reef. Nature Communications, 2020, 11, 1500.	5.8	20
379	Aerosol pH and liquid water content determine when particulate matter is sensitive to ammonia and nitrate availability. Atmospheric Chemistry and Physics, 2020, 20, 3249-3258.	1.9	72
380	A Spatially Explicit, Empirical Estimate of Tree-Based Biological Nitrogen Fixation in Forests of the United States. Global Biogeochemical Cycles, 2020, 34, e2019GB006241.	1.9	19
381	Atmospheric History of H <sub>2</sub> Over the Past Century Reconstructed From South Pole Firn Air. Geophysical Research Letters, 2020, 47, e2020GL087787.	1.5	15
382	Effect of nitrogen (N) deposition on soil-N processes: a holistic approach. Scientific Reports, 2020, 10, 10470.	1.6	23
383	Microorganisms and Their Metabolic Capabilities in the Context of the Biogeochemical Nitrogen Cycle at Extreme Environments. International Journal of Molecular Sciences, 2020, 21, 4228.	1.8	31
384	A new marine biogenic emission: methane sulfonamide (MSAM), dimethyl sulfide (DMS), and dimethyl sulfone (DMSO&lt;sub&gt;2&gt;&lt;sub&gt;2&gt;) measured in air over the Arabian Sea. Atmospheric Chemistry and Physics, 2020, 20, 6081-6094.	1.9	24
385	Estimation of N <sub>2</sub> O Emissions from Agricultural Soils and Determination of Nitrogen Leakage. Atmosphere, 2020, 11, 552.	1.0	5
386	Correcting high-frequency losses of reactive nitrogen flux measurements. Atmospheric Measurement Techniques, 2020, 13, 2923-2948.	1.2	11

#	ARTICLE	IF	CITATIONS
387	Assessing the Eutrophic Susceptibility of New Zealand Estuaries. <i>Estuaries and Coasts</i> , 2020, 43, 2015-2033.	1.0	25
388	The effect of nitrogen and temperature changes on <i>Solidago canadensis</i> phenotypic plasticity and fitness. <i>Plant Species Biology</i> , 2020, 35, 283-299.	0.6	22
389	Thermal acclimation offsets the negative effects of nitrate on aerobic scope and performance. <i>Journal of Experimental Biology</i> , 2020, 223, .	0.8	15
390	Atmospheric wet and dry deposition of dissolved inorganic nitrogen to the South China Sea. <i>Science China Earth Sciences</i> , 2020, 63, 1339-1352.	2.3	16
391	Enrichment of Nitrogen-Fixing Bacteria in a Nitrogen-Deficient Wastewater Treatment System. <i>Environmental Science &amp; Technology</i> , 2020, 54, 3539-3548.	4.6	22
392	Concealed nitrogen footprint in protein-free foods: an empirical example using oil palm products. <i>Environmental Research Letters</i> , 2020, 15, 035006.	2.2	7
393	From removal to recovery: An evaluation of nitrogen recovery techniques from wastewater. <i>Applied Energy</i> , 2020, 263, 114616.	5.1	120
394	Lessons From 20 Years of Studies of Wheat Genotypes in Multiple Environments and Under Contrasting Production Systems. <i>Frontiers in Plant Science</i> , 2019, 10, 1745.	1.7	20
395	Trade Imports Increasingly Contribute to Plant Nutrient Inputs: Case of the Finnish Food System 1996–2014. <i>Sustainability</i> , 2020, 12, 702.	1.6	4
396	Mild and Selective Hydrogenation of Nitrate to Ammonia in the Absence of Noble Metals. <i>ACS Catalysis</i> , 2020, 10, 3618-3628.	5.5	83
397	Geographic versus institutional drivers of nitrogen footprints: a comparison of two urban universities. <i>Environmental Research Letters</i> , 2020, 15, 045008.	2.2	1
398	The changing role of organic nitrates in the removal and transport of NO <sub>2</sub> and NO <sub>3</sub> . <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 267-279.	1.9	34
399	Nitrogen Isotope Differences between Major Atmospheric NO <sub>x</sub> Species: Implications for Transformation and Deposition Processes. <i>Environmental Science and Technology Letters</i> , 2020, 7, 227-233.	3.9	21
400	Effect of Chemical and Physical Properties of Titanium Oxide Support Surface during Nitrogen Monoxide Reduction by Carbon Monoxide in Presence Water over Titanium Oxide Supported Platinum Catalyst. <i>Journal of the Japan Petroleum Institute</i> , 2020, 63, 28-37.	0.4	5
401	Comparing the variations and controlling factors of soil N <sub>2</sub> O emissions and NO <sub>3</sub> -N leaching on tea and bamboo hillslopes. <i>Catena</i> , 2020, 188, 104463.	2.2	18
402	Source, contribution and microbial N-cycle of N-compounds in China fresh snow. <i>Environmental Research</i> , 2020, 183, 109146.	3.7	1
403	Meta-analysis on the potential for increasing nitrogen losses from intensifying tropical agriculture. <i>Global Change Biology</i> , 2020, 26, 1668-1680.	4.2	51
404	Five-year nitrogen addition affects fine root exudation and its correlation with root respiration in a dominant species, <i>Quercus crispula</i> , of a cool temperate forest, Japan. <i>Tree Physiology</i> , 2020, 40, 367-376.	1.4	21

#	ARTICLE	IF	CITATIONS
405	Simultaneous exposure to nitrate and low pH reduces the blood oxygen-carrying capacity and functional performance of a freshwater fish. , 2020, 8, coz092.		27
406	The Contribution and Mitigation Potential of Reactive Nitrogen Emissions from Industrial Parks in China Cannot Be Ignored. Environmental Science and Technology Letters, 2020, 7, 82-88.	3.9	4
407	Variation in symbiotic N <sub>2</sub> fixation rates among Sphagnum mosses. PLoS ONE, 2020, 15, e0228383.	1.1	12
408	Modeling the Impacts of Nitrogen Dynamics on Regional Terrestrial Carbon and Water Cycles over China with Noah-MP-CN. Advances in Atmospheric Sciences, 2020, 37, 679-695.	1.9	6
409	Alternative Strategies Toward Sustainable Ammonia Synthesis. Transactions of Tianjin University, 2020, 26, 67-91.	3.3	51
410	Region-specific emission factors for Brazil increase the estimate of nitrous oxide emissions from nitrogen fertiliser application by 21%. Atmospheric Environment, 2020, 230, 117506.	1.9	23
411	The world's growing municipal solid waste: trends and impacts. Environmental Research Letters, 2020, 15, 074021.	2.2	207
412	The roles of environmental variation and spatial distance in explaining diversity and biogeography of soil denitrifying communities in remote Tibetan wetlands. FEMS Microbiology Ecology, 2020, 96, .	1.3	17
413	Novel Isothermal Membrane Distillation with Acidic Collector for Selective and Energy-Efficient Recovery of Ammonia from Urine. ACS Sustainable Chemistry and Engineering, 2020, 8, 7324-7334.	3.2	49
414	A combined approach to establishing the timing and magnitude of anthropogenic nutrient alteration in a mediterranean coastal lake- watershed system. Scientific Reports, 2020, 10, 5864.	1.6	9
415	Ni <sub>2</sub> Pâ€Modified Ta <sub>3</sub> N <sub>5</sub> and TaON for Photocatalytic Nitrate Reduction. ChemNanoMat, 2020, 6, 1179-1185.	1.5	16
416	Nitrogen storage and allocation in China's forest ecosystems. Science China Earth Sciences, 2020, 63, 1475-1484.	2.3	11
417	Enhanced atmospheric ammonia (NH <sub>3</sub> ) pollution in China from 2008 to 2016: Evidence from a combination of observations and emissions. Environmental Pollution, 2020, 263, 114421.	3.7	53
418	Rescheduling fertilizer nitrogen topdressing timings for improving productivity and mitigating N <sub>2</sub> O emissions in timely and late sown irrigated wheat ( <i>Triticum aestivum</i> L.). Archives of Agronomy and Soil Science, 2021, 67, 647-659.	1.3	5
419	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO <sub>2</sub> . New Phytologist, 2021, 229, 2413-2445.	3.5	286
420	Temperature-dependent changes in active nitrifying communities in response to field fertilization legacy. Biology and Fertility of Soils, 2021, 57, 1-14.	2.3	6
421	Atmospheric nitrogen deposition and its responses to anthropogenic emissions in a global hotspot region. Atmospheric Research, 2021, 248, 105137.	1.8	17
422	The gathering anthropocene crisis. Infrastructure Asset Management, 2021, 8, 83-95.	1.2	7



#	ARTICLE	IF	CITATIONS
423	Responses of functional traits to seven-year nitrogen addition in two tree species: coordination of hydraulics, gas exchange and carbon reserves. <i>Tree Physiology</i> , 2021, 41, 190-205.	1.4	17
424	Biomass partitioning and photosynthesis in the quest for nitrogen- use efficiency for citrus tree species. <i>Tree Physiology</i> , 2021, 41, 163-176.	1.4	3
425	The stronger impact of inorganic nitrogen fertilization on soil bacterial community than organic fertilization in short-term condition. <i>Geoderma</i> , 2021, 382, 114752.	2.3	61
426	The response of ammonia oxidizing archaea and bacteria in relation to heterotrophs under different carbon and nitrogen amendments in two agricultural soils. <i>Applied Soil Ecology</i> , 2021, 158, 103812.	2.1	26
427	The role of soil in defining planetary boundaries and the safe operating space for humanity. <i>Environment International</i> , 2021, 146, 106245.	4.8	25
428	Evaluation of electrocatalytic dinitrogen reduction performance on diamond carbon via density functional theory. <i>Diamond and Related Materials</i> , 2021, 111, 108210.	1.8	10
429	Responses of soil ammonia-oxidizing bacteria and archaea to short-term warming and nitrogen input in a semi-arid grassland on the Loess Plateau. <i>European Journal of Soil Biology</i> , 2021, 102, 103267.	1.4	17
430	Modelling the sources and transport of ammonium nitrogen with the SPARROW model: A case study in a karst basin. <i>Journal of Hydrology</i> , 2021, 592, 125763.	2.3	19
431	Coordination chemistry of the CuZ site in nitrous oxide reductase and its synthetic mimics. <i>Coordination Chemistry Reviews</i> , 2021, 429, 213718.	9.5	13
432	Interactive effect of climate warming and nitrogen deposition may shift the dynamics of native and invasive species. <i>Journal of Plant Ecology</i> , 2021, 14, 84-95.	1.2	27
433	The importance of ammonia volatilization in estimating the efficacy of nitrification inhibitors to reduce N <sub>2</sub> O emissions: A global meta-analysis. <i>Environmental Pollution</i> , 2021, 271, 116365.	3.7	51
434	The importance of nitrogen for net carbon sequestration when considering natural climate solutions. <i>Global Change Biology</i> , 2021, 27, 218-219.	4.2	8
435	Reduction in global habitat loss from fossil fuel dependent increases in cropland productivity. <i>Conservation Biology</i> , 2021, 35, 766-774.	2.4	1
436	Important contributions of non-fossil fuel nitrogen oxides emissions. <i>Nature Communications</i> , 2021, 12, 243.	5.8	54
437	Winter N <sub>2</sub> O accumulation and emission in sub-boreal grassland soil depend on clover proportion and soil pH. <i>Environmental Research Communications</i> , 2021, 3, 015001.	0.9	11
438	Electrocatalytic nitrate reduction with Co-based catalysts: comparison of DIM, TIM and cyclam ligands. <i>Dalton Transactions</i> , 2021, 50, 12324-12331.	1.6	8
439	Integrated assessment of ammonia-nitrogen in water environments and its exposure to ecology and human health. , 2021, , 199-216.		1
440	Genetic Engineering of Grain Legumes: Their Potential for Sustainable Agriculture and Food and Nutritional Security. , 2021, , 91-121.		0

#	ARTICLE	IF	CITATIONS
441	CHAPTER 1. Introduction to Nitrogen Chemical Biology. Chemical Biology, 2021, , 1-23.	0.1	0
442	Chapter 8 Terrestrial CO <sub>2</sub> -Concentrating Mechanisms in a High CO <sub>2</sub> World. Advances in Photosynthesis and Respiration, 2021, , 193-250.	1.0	4
443	The Effects of Nitrogen Deposition on Fine Root Longevity in Forest Ecosystem: A Review. International Journal of Ecology, 2021, 10, 14-28.	0.0	0
444	How much carbon can be added to soil by sorption?. Biogeochemistry, 2021, 152, 127-142.	1.7	27
445	Phosphate and Ammonium Removal from Water through Electrochemical and Chemical Precipitation of Struvite. Processes, 2021, 9, 150.	1.3	21
446	Ecological Intensification for Sustainable Agriculture in South Asia. , 2021, , 171-213.		2
447	Nitrous oxide emissions from applied nitrate fertiliser in commercial cherry orchards. Soil Research, 2021, 59, 60.	0.6	2
448	Environment and coordination of FeMo- $\mu$ co in the nitrogenase metallochaperone NafY. RSC Chemical Biology, 2021, 2, 1462-1465.	2.0	3
450	CHAPTER 2. Inorganic Nitrogen Biochemistry and Dinitrogen Reduction to Ammonia by Nitrogenase. Chemical Biology, 2021, , 24-47.	0.1	0
451	Implementation of nitrogen cycle in the CLASSIC land model. Biogeosciences, 2021, 18, 669-706.	1.3	11
452	A National Nitrogen Target for Germany. Sustainability, 2021, 13, 1121.	1.6	4
453	Transformations of nitrogen. , 2021, , 385-421.		8
454	Back donation, intramolecular electron transfer and N- $\mu$ O bond scission targeting nitrogen oxyanion reduction: how can a metal complex assist?. Dalton Transactions, 2021, 50, 2149-2157.	1.6	1
455	Chronic Atmospheric Reactive Nitrogen Deposition Suppresses Biological Nitrogen Fixation in Peatlands. Environmental Science & Technology, 2021, 55, 1310-1318.	4.6	9
456	Emerging investigator series: thermodynamic and energy analysis of nitrogen and phosphorous recovery from wastewaters. Environmental Science: Water Research and Technology, 2021, 7, 2075-2088.	1.2	4
457	Applications of CRISPR/Cas Beyond Simple Traits in Crops. , 2021, , 231-260.		0
458	Spatiotemporal Dynamics of Nitrogen Budgets under Anthropogenic Activities in Metropolitan Areas. Sustainability, 2021, 13, 2006.	1.6	2
459	Identifying and assessing effectiveness of alternative low-effort nitrogen footprint reductions in small research institutions. Environmental Research Letters, 2021, 16, 035014.	2.2	0

#	ARTICLE	IF	CITATIONS
460	Changes in stable nitrogen isotopes of plants, bulk soil and soil dissolved N during ecosystem retrogression in boreal forest. <i>Ecological Research</i> , 2021, 36, 420-429.	0.7	4
461	Reflections on 200 years of Nitrogen, 20 years later. <i>Ambio</i> , 2021, 50, 745-749.	2.8	40
462	Nitrogen Recovery via Aquaponicsâ€Bioponics: Engineering Considerations and Perspectives. <i>ACS ES&amp;T Engineering</i> , 2021, 1, 326-339.	3.7	19
463	A water-function-based framework for understanding and governing water resilience in the Anthropocene. <i>One Earth</i> , 2021, 4, 213-225.	3.6	21
464	Inorganic nitrogen deposition in arid land ecosystems of Central Asia. <i>Environmental Science and Pollution Research</i> , 2021, 28, 31861-31871.	2.7	4
465	Tracing plantâ€environment interactions from organismal to planetary scales using stable isotopes: a mini review. <i>Emerging Topics in Life Sciences</i> , 2021, 5, 301-316.	1.1	3
466	Sulfur Metabolites Play Key System-Level Roles in Modulating Denitrification. <i>MSystems</i> , 2021, 6, .	1.7	10
467	Nitrogen Challenges and Opportunities for Agricultural and Environmental Science in India. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	1.8	29
468	Soil organic nitrogen: an overlooked but potentially significant contribution to crop nutrition. <i>Plant and Soil</i> , 2021, 462, 7-23.	1.8	42
469	Altered plant carbon partitioning enhanced forest ecosystem carbon storage after 25 years of nitrogen additions. <i>New Phytologist</i> , 2021, 230, 1435-1448.	3.5	51
470	Microplastic fibers affect dynamics and intensity of CO <sub>2</sub> and N <sub>2</sub> O fluxes from soil differently. <i>Microplastics and Nanoplastics</i> , 2021, 1, .	4.1	51
471	Recent Progress of the Design and Engineering of Bismuth Oxyhalides for Photocatalytic Nitrogen Fixation. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000097.	2.8	14
472	Estimaci3n de la fracci3n de cobertura vegetal y contenido de nitr3geno del dosel en maÃz mediante sensores remotos. <i>Terra Latinoamericana</i> , 0, 39, .	0.3	1
473	Exposure to Nitrate Increases Susceptibility to Hypoxia in Fish. <i>Physiological and Biochemical Zoology</i> , 2021, 94, 124-142.	0.6	18
474	Soil Nitrous Oxide Emissions by Atmospheric Nitrogen Deposition over Global Agricultural Systems. <i>Environmental Science &amp; Technology</i> , 2021, 55, 4420-4429.	4.6	39
475	Targeting Nitrogen Metabolism and Transport Processes to Improve Plant Nitrogen Use Efficiency. <i>Frontiers in Plant Science</i> , 2020, 11, 628366.	1.7	92
476	Changes in aboveâ€belowâ€ground biodiversity and plant functional composition mediate soil respiration response to nitrogen input. <i>Functional Ecology</i> , 2021, 35, 1171-1182.	1.7	19
477	A method for resolving changes in atmospheric Heâ€%â€N&lt;sub&gt;2&lt;/sub&gt; as an indicator of fossil fuel extraction and stratospheric circulation. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 2515-2527.	1.2	2

#	ARTICLE	IF	CITATIONS
478	Messaging on Slow Impacts: Applying Lessons Learned from Climate Change Communication to Catalyze and Improve Marine Nutrient Communication. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	5
479	Nitrogen addition decreases methane uptake caused by methanotroph and methanogen imbalances in a Moso bamboo forest. <i>Scientific Reports</i> , 2021, 11, 5578.	1.6	16
480	Coated controlled-release urea creates a win-win scenario for producing more staple grains and resolving N loss dilemma worldwide. <i>Journal of Cleaner Production</i> , 2021, 288, 125660.	4.6	27
481	Corn and soybean yields and returns are greater in rotations with wheat. <i>Agronomy Journal</i> , 2021, 113, 1691-1711.	0.9	17
482	Nitrogen-use efficiency of organic and conventional arable and dairy farming systems in Germany. <i>Nutrient Cycling in Agroecosystems</i> , 2021, 119, 337-354.	1.1	22
483	Deferred control of ammonium cross-feeding in a N <sub>2</sub> -fixing bacterium-microalga artificial consortium. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 2937-2950.	1.7	4
484	Nitrogen and the future of agriculture: 20 years on. <i>Ambio</i> , 2022, 51, 17-24.	2.8	38
485	A Biotreatment Effect on Dynamics of Cattle Manure Composition and Reduction of Ammonia Emissions from Agriculture. <i>Agriculture (Switzerland)</i> , 2021, 11, 303.	1.4	10
486	Aerosol acidity and liquid water content regulate the dry deposition of inorganic reactive nitrogen. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6023-6033.	1.9	28
487	Spatial and Seasonal Variations of Stable Isotope Ratios of Particulate Organic Carbon and Nitrogen in the Surface Water of the Kuroshio. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017175.	1.0	6
488	Rye cover crop improves vegetable crop nitrogen use efficiency and yield in a short season growing region. <i>Canadian Journal of Plant Science</i> , 2021, 101, 1014-1028.	0.3	6
489	Dry Deposition of Atmospheric Aerosols: Approaches, Observations, and Mechanisms. <i>Annual Review of Physical Chemistry</i> , 2021, 72, 375-397.	4.8	29
490	Influence of sedimentation rate on the environmental capacity of total nitrogen in the water of Bohai Bay, China. <i>Journal of Soils and Sediments</i> , 2021, 21, 3225-3233.	1.5	1
491	Root-Derived Proteases as a Plant Tool to Access Soil Organic Nitrogen; Current Stage of Knowledge and Controversies. <i>Plants</i> , 2021, 10, 731.	1.6	6
492	Nitrogen deposition accelerates greenhouse gas emissions at an alpine steppe site on the Tibetan Plateau. <i>Science of the Total Environment</i> , 2021, 765, 144277.	3.9	14
493	Toward Specialized or Integrated Systems in Northwest Europe: On-Farm Eco-Efficiency of Dairy Farming in Germany. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	1.8	16
494	Pulse Effect of Precipitation: Spatial Patterns and Mechanisms of Soil Carbon Emissions. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	1.1	10
495	Reactive nitrogen compounds and their influence on human health: an overview. <i>Reviews on Environmental Health</i> , 2022, 37, 229-246.	1.1	14

#	ARTICLE	IF	CITATIONS
496	A more ammonium solution to mitigate nitrogen pollution and boost crop yields. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	59
497	Measurement and modelling of the dynamics of NH <sub>3</sub> surface-atmosphere exchange over the Amazonian rainforest. Biogeosciences, 2021, 18, 2809-2825.	1.3	2
498	Nitrogen Fertilization. A Review of the Risks Associated with the Inefficiency of Its Use and Policy Responses. Sustainability, 2021, 13, 5625.	1.6	73
499	The Role of Hyporheic Connectivity in Determining Nitrogen Availability: Insights From an Intermittent Antarctic Stream. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006309.	1.3	7
500	Microcystis blooms aggravate the diurnal alternation of nitrification and nitrate reduction in the water column in Lake Taihu. Science of the Total Environment, 2021, 767, 144884.	3.9	10
501	High Resistance of a Sludge Enriched with Nitrogen-Fixing Bacteria to Ammonium Salts and Its Potential as a Biofertilizer. Bioengineering, 2021, 8, 55.	1.6	4
502	Archaea, bacteria and termite, nitrogen fixation and sustainable plants production. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 2021, 49, 12172.	0.5	5
503	Soil Nitrogen Transformations Respond Diversely to Multiple Levels of Nitrogen Addition in a Tibetan Alpine Steppe. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006211.	1.3	2
504	How Rhizobia Adapt to the Nodule Environment. Journal of Bacteriology, 2021, 203, e0053920.	1.0	36
505	Gridded soil surface nitrogen surplus on grazing and agricultural land: Impact of land use maps. Environmental Research Communications, 2021, 3, 055003.	0.9	6
506	Global anthropogenic and natural nutrient fluxes: from local to planetary assessments. Environmental Research Letters, 2021, 16, 054074.	2.2	13
507	Shifts in the relative abundance and potential rates of sediment ammonia-oxidizing archaea and bacteria along environmental gradients of an urban river-estuary-adjacent sea continuum. Science of the Total Environment, 2021, 771, 144824.	3.9	10
509	Potassium and Elemental Sulfur as Factors Determining Nitrogen Management Indices of Soil and Faba Bean ( <i>Vicia faba</i> L.). Agronomy, 2021, 11, 1137.	1.3	1
510	Distinct microbial communities alter litter decomposition rates in a fertilized coastal plain wetland. Ecosphere, 2021, 12, e03619.	1.0	6
511	Context is Everything: Interacting Inputs and Landscape Characteristics Control Stream Nitrogen. Environmental Science & Technology, 2021, 55, 7890-7899.	4.6	22
512	Exploring the Potential of Electrospray-Orbitrap for Stable Isotope Analysis Using Nitrate as a Model. Analytical Chemistry, 2021, 93, 9139-9148.	3.2	15
513	Biological nitrogen fixation of Chinese Milk Vetch ( <i>Astragalus sinicus</i> L.) as affected by exogenous carbon and nitrogen input. Symbiosis, 2021, 85, 69-77.	1.2	3
514	Optimizing Nitrogen Fixation and Recycling for Food Production in Regenerative Life Support Systems. Frontiers in Astronomy and Space Sciences, 2021, 8, .	1.1	11

#	ARTICLE	IF	CITATIONS
515	BNI-release mechanisms in plant root systems: current status of understanding. <i>Biology and Fertility of Soils</i> , 2022, 58, 225-233.	2.3	12
516	Plants and mycorrhizal symbionts acquire substantial soil nitrogen from gaseous ammonia transport. <i>New Phytologist</i> , 2021, 231, 1746-1757.	3.5	12
517	Calculation of a food consumption nitrogen footprint for Germany. <i>Environmental Research Letters</i> , 2021, 16, 075005.	2.2	9
518	Ammonia-oxidizing archaea are integral to nitrogen cycling in a highly fertile agricultural soil. <i>ISME Communications</i> , 2021, 1, .	1.7	35
519	Valorization of pulp and paper industry wastewater using sludge enriched with nitrogen-fixing bacteria. <i>Water Environment Research</i> , 2021, 93, 1734-1747.	1.3	5
520	15N natural abundance of vehicular exhaust ammonia, quantified by active sampling techniques. <i>Atmospheric Environment</i> , 2021, 255, 118430.	1.9	11
521	Review of low-temperature plasma nitrogen fixation technology. <i>Waste Disposal &amp; Sustainable Energy</i> , 2021, 3, 201-217.	1.1	46
522	Impact of fertilization with reducing in nitrogen and phosphorous application on growth, yield and biomass accumulation of rice ( <i>Oryza sativa</i> L.) under a dual cropping system. <i>PeerJ</i> , 2021, 9, e11668.	0.9	11
523	Ecosystem coupling: A unifying framework to understand the functioning and recovery of ecosystems. <i>One Earth</i> , 2021, 4, 951-966.	3.6	26
524	The Diel Cycle of NH <sub>3</sub> Observed From the FY-4A Geostationary Interferometric Infrared Sounder (GIIRS). <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093010.	1.5	11
525	A Redox-Active Tetrazine-Based Pincer Ligand for the Reduction of N-Oxyanions Using a Redox-Inert Metal. <i>Chemistry - A European Journal</i> , 2021, 27, 11676-11681.	1.7	7
526	Bioenergy Crops for Low Warming Targets Require Half of the Present Agricultural Fertilizer Use. <i>Environmental Science &amp; Technology</i> , 2021, 55, 10654-10661.	4.6	14
527	Optimizing Nitrogen Application in Root Vegetables from Their Growth, Biochemical and Antioxidant Response to Urea Fertilizer. <i>Agriculture (Switzerland)</i> , 2021, 11, 704.	1.4	5
528	Isolation and characterisation of endophytic actinobacteria and their effect on the growth and nodulation of chickpea ( <i>Cicer arietinum</i> ). <i>Plant and Soil</i> , 2021, 466, 357-371.	1.8	11
529	A novel representation of biological nitrogen fixation and competitive dynamics between nitrogen-fixing and non-fixing plants in a land model (GFDL LM4.1-BNF). <i>Biogeosciences</i> , 2021, 18, 4143-4183.	1.3	6
530	Impact of Nutrient Additions on Free-Living Nitrogen Fixation in Litter and Soil of Two French Guianese Lowland Tropical Forests. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2021, 126, e2020JG006023.	1.3	4
531	The canopy layer, a biogeochemical actor in the forest N-cycle. <i>Science of the Total Environment</i> , 2021, 776, 146024.	3.9	18
532	Metabolomics and Dual RNA-Sequencing on Root Nodules Revealed New Cellular Functions Controlled by <i>Paraburkholderia phymatum</i> NifA. <i>Metabolites</i> , 2021, 11, 455.	1.3	3

#	ARTICLE	IF	CITATIONS
533	Machine-learning accelerated structural prediction and confirmation of novel WN6 with hexagonal N6 rings. <i>Science Bulletin</i> , 2021, 66, 1367-1368.	4.3	1
534	Quantification of global and national nitrogen budgets for crop production. <i>Nature Food</i> , 2021, 2, 529-540.	6.2	108
535	Microbial Fuel Cell for Energy Production, Nutrient Removal and Recovery from Wastewater: A Review. <i>Processes</i> , 2021, 9, 1318.	1.3	30
536	Stable isotopic characterization of nitrate wet deposition in the tropical urban atmosphere of Costa Rica. <i>Environmental Science and Pollution Research</i> , 2021, 28, 67577-67592.	2.7	8
538	Activity and electron donor preference of two denitrifying bacterial strains identified by Raman gas spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 601-611.	1.9	3
540	When the Medicine Feeds the Problem; Do Nitrogen Fertilisers and Pesticides Enhance the Nutritional Quality of Crops for Their Pests and Pathogens?. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	1.8	14
541	Organic phosphorus cycling may control grassland responses to nitrogen deposition: a long-term field manipulation and modelling study. <i>Biogeosciences</i> , 2021, 18, 4021-4037.	1.3	5
542	Negative effects of nitrogen override positive effects of phosphorus on grassland legumes worldwide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	40
543	Nitrogen Oxides (NOx) in the Arctic Troposphere at Ny-Ålesund (Svalbard Islands): Effects of Anthropogenic Pollution Sources. <i>Atmosphere</i> , 2021, 12, 901.	1.0	2
544	Impacts of the National Forest Rehabilitation Plan and Human-Induced Environmental Changes on the Carbon and Nitrogen Balances of the South Korean Forests. <i>Forests</i> , 2021, 12, 1150.	0.9	2
545	Canopy Exchange and Modification of Nitrogen Fluxes in Forest Ecosystems. <i>Current Forestry Reports</i> , 2021, 7, 115-137.	3.4	10
546	The role of soils in habitat creation, maintenance and restoration. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200170.	1.8	23
547	The role of soils on pollination and seed dispersal. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200171.	1.8	17
548	H <sub>2</sub> in Antarctic firn air: Atmospheric reconstructions and implications for anthropogenic emissions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	9
549	Microbial Composition and Genes for Key Metabolic Attributes in the Gut Digesta of Sea Urchins <i>Lytechinus variegatus</i> and <i>Strongylocentrotus purpuratus</i> Using Shotgun Metagenomics. <i>Current Issues in Molecular Biology</i> , 2021, 43, 978-995.	1.0	2
550	The need to integrate legacy nitrogen storage dynamics and time lags into policy and practice. <i>Science of the Total Environment</i> , 2021, 781, 146698.	3.9	31
551	Phylogeny of Nitrogenase Structural and Assembly Components Reveals New Insights into the Origin and Distribution of Nitrogen Fixation across Bacteria and Archaea. <i>Microorganisms</i> , 2021, 9, 1662.	1.6	24
552	The Human Creation and Use of Reactive Nitrogen: A Global and Regional Perspective. <i>Annual Review of Environment and Resources</i> , 2021, 46, 255-288.	5.6	54

#	ARTICLE	IF	CITATIONS
553	Influence of chronic and excessive nitrogen influx on forest ecosystems connected to the Tokyo metropolitan area. <i>Ecological Indicators</i> , 2021, 127, 107771.	2.6	2
554	Flow regulates biological NO <sub>3</sub> <sup>-</sup> and N <sub>2</sub> O production in a turbid sub-tropical stream. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 306, 124-142.	1.6	6
556	New Constraints on Isotopic Effects and Major Sources of Nitrate in Atmospheric Particulates by Combining $\delta^{15}\text{N}$ and $\delta^{17}\text{O}$ Signatures. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034168.	1.2	8
557	Response of nitrification and nitrifying microorganisms to different nitrogen sources in the acid Ultisols of Jinyun Mountain. <i>Soil Science and Plant Nutrition</i> , 0, , 1-9.	0.8	2
558	No sugar yield gains but larger fertiliser 15N loss with increasing N rates in an intensive sugarcane system. <i>Nutrient Cycling in Agroecosystems</i> , 2021, 121, 99-113.	1.1	7
560	Quantifying the Role of Nitrogen Deposition and Nitrate-Coscientific Model Development, 2021, 14, 5000-5007 &lt;sup>15</sup>N into the Regional Atmospheric Chemistry Mechanism (RACM) for assessing the role photochemistry plays in controlling the isotopic composition of NO <sub>x</sub> , NO <sub>y</sub> , and atmospheric	1.3	7
561	Nitrogen Deposition Effects on Soil Properties, Microbial Abundance, and Litter Decomposition Across Three Shrublands Ecosystems From the Mediterranean Basin. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	7
562	Application of Granular and Non-Granular Organic Fertilizers in Terms of Energy, Environmental and Economic Efficiency. <i>Sustainability</i> , 2021, 13, 9740.	1.6	4
563	Variation in traits contributing to improved use of nitrogen in wheat: Implications for genotype by environment interaction. <i>Field Crops Research</i> , 2021, 270, 108211.	2.3	16
564	Evaluation of variation in background nitrous oxide emissions: A new global synthesis integrating the impacts of climate, soil, and management conditions. <i>Global Change Biology</i> , 2022, 28, 480-492.	4.2	20
565	High resolution measurements reveal abiotic and biotic mechanisms of elevated nitric oxide emission after wetting dry soil. <i>Soil Biology and Biochemistry</i> , 2021, 160, 108316.	4.2	2
566	Provincial nitrogen footprints highlight variability in drivers of reactive nitrogen emissions in Canada. <i>Environmental Research Letters</i> , 2021, 16, 095007.	2.2	6
567	Nitrogen contamination and bioremediation in groundwater and the environment: A review. <i>Earth-Science Reviews</i> , 2021, 222, 103816.	4.0	29
568	Ammonium removal and recovery from sewage water using column-system packed highly selective ammonium adsorbent. <i>Environmental Pollution</i> , 2021, 284, 117495.	3.7	8
569	Validation of terrestrial biogeochemistry in CMIP6 Earth system models: a review. <i>Geoscientific Model Development</i> , 2021, 14, 5863-5889.	1.3	11
570	Pursuing sustainable nitrogen management following the '5 Ps' principles: Production, People, Planet, Policy and Partnerships. <i>Global Environmental Change</i> , 2021, 70, 102346.	3.6	3
571	Medellin Air Quality Initiative (MAUI). , 0, , .		0
572	Hotspots of reactive nitrogen loss in China: Production, consumption, spatiotemporal trend and reduction responsibility. <i>Environmental Pollution</i> , 2021, 284, 117126.	3.7	1



#	ARTICLE	IF	CITATIONS
573	National nitrogen budget for Germany. <i>Environmental Research Communications</i> , 2021, 3, 095004.	0.9	4
574	Overlooked contribution of water column to nitrogen removal in estuarine turbidity maximum zone (TMZ). <i>Science of the Total Environment</i> , 2021, 788, 147736.	3.9	13
575	Nitrogen burden from atmospheric deposition in East Asian oceans in 2010 based on high-resolution regional numerical modeling. <i>Environmental Pollution</i> , 2021, 286, 117309.	3.7	9
576	Nitrogen budgets in Japan from 2000 to 2015: Decreasing trend of nitrogen loss to the environment and the challenge to further reduce nitrogen waste. <i>Environmental Pollution</i> , 2021, 286, 117559.	3.7	26
577	Uncertainty of nitrogen budget in China. <i>Environmental Pollution</i> , 2021, 286, 117216.	3.7	11
578	Nutrient-extended input-output (NutrIO) method for the food nitrogen footprint. <i>Environmental Research Letters</i> , 0, , .	2.2	4
579	Supplementary feeding yak with oat hay improves nitrogen cycling in an alpine meadow on the Qinghai-Tibet Plateau, China. <i>Agricultural Systems</i> , 2021, 193, 103216.	3.2	3
580	Toward Zero Hunger Through Coupled Ecological Sanitation-Agriculture Systems. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	1.8	7
581	Long-term dynamics of nitrogen flow in a typical agricultural and pastoral region on the Qinghai-Tibet Plateau and its optimization strategy. <i>Environmental Pollution</i> , 2021, 288, 117684.	3.7	9
582	Improved soil-crop system management aids in NH <sub>3</sub> emission mitigation in China. <i>Environmental Pollution</i> , 2021, 289, 117844.	3.7	34
583	Human-caused increases in reactive nitrogen burial in sediment of global lakes. <i>Innovation(China)</i> , 2021, 2, 100158.	5.2	6
584	Nitrogen emission and deposition budget in an agricultural catchment in subtropical central China. <i>Environmental Pollution</i> , 2021, 289, 117870.	3.7	10
585	Spring thaw pulses decrease annual N <sub>2</sub> O emissions reductions by nitrification inhibitors from a seasonally frozen cropland. <i>Geoderma</i> , 2021, 403, 115310.	2.3	12
586	The gap between atmospheric nitrogen deposition experiments and reality. <i>Science of the Total Environment</i> , 2021, 801, 149774.	3.9	18
587	High atmospheric wet nitrogen deposition and major sources in two cities of Yangtze River Delta: Combustion-related NH <sub>3</sub> and non-fossil fuel NO <sub>x</sub> . <i>Science of the Total Environment</i> , 2022, 806, 150502.	3.9	14
588	Microplastics shift impacts of climate change on a plant-microbe mutualism: Temperature, CO <sub>2</sub> , and tire wear particles. <i>Environmental Research</i> , 2022, 203, 111727.	3.7	18
589	Ammonia recovery from brines originating from a municipal wastewater ion exchange process and valorization of recovered nitrogen into microbial protein. <i>Chemical Engineering Journal</i> , 2022, 427, 130896.	6.6	24
590	Co-cultivation enhanced microbial protein production based on autotrophic nitrogen-fixing hydrogen-oxidizing bacteria. <i>Chemical Engineering Journal</i> , 2022, 429, 132535.	6.6	16

#	ARTICLE	IF	CITATIONS
591	Drying fresh human urine in magnesium-doped alkaline substrates: Capture of free ammonia, inhibition of enzymatic urea hydrolysis & minimisation of chemical urea hydrolysis. <i>Chemical Engineering Journal</i> , 2022, 428, 131026.	6.6	18
592	Role of Microbial Communities in Sustainable Rice Cultivation. <i>Microorganisms for Sustainability</i> , 2021, , 189-223.	0.4	2
593	Biological dinitrogen (N <sub>2</sub> ) fixation: introduction and nonsymbiotic. , 2021, , 423-453.		3
594	Impact of Reactive Nitrogen and Nitrogen Footprint. <i>Structure and Function of Mountain Ecosystems in Japan</i> , 2021, , 67-86.	0.1	0
595	Nitric and nitrous oxide fluxes from intensifying crop agriculture in the seasonally dry tropical Amazonâ€™Cerrado border region. , 2021, 4, e20169.		5
596	Composition and supply of inorganic and organic nitrogen species in dry and wet atmospheric deposition: Use of organic nitrogen composition to calculate the Ocean's external nitrogen flux from the atmosphere. <i>Continental Shelf Research</i> , 2021, 213, 104316.	0.9	9
597	Grasping at digitalisation: turning imagination into fact in the sugarcane farming community. <i>Sustainability Science</i> , 2021, 16, 677-690.	2.5	17
598	N <sub>2</sub> Fixation in Ocean Basins. , 2021, , 143-156.		1
599	Plant Demand Adapted Fertilization in Organic and Precision Farming. <i>Environmental Science and Engineering</i> , 2021, , 137-166.	0.1	0
601	Fluxes of Reactive Nitrogen and Greenhouse Gases from Arable Land in South-Western Ukraine. , 2021, , 225-235.		2
602	Global integrated modeling framework of riverine dissolved inorganic nitrogen with seasonal variation. <i>Hydrological Research Letters</i> , 2021, 15, 50-57.	0.3	3
603	Abiotic reduction of nitrite by Fe( <sup>ii</sup> ): a comparison of rates and N <sub>2</sub> O production. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 1531-1541.	1.7	6
604	Comprehensive insights into synthetic nitrogen fixation assisted by molecular catalysts under ambient or mild conditions. <i>Chemical Society Reviews</i> , 2021, 50, 5201-5242.	18.7	87
605	Denitrification, anammox, and dissimilatory nitrate reduction to ammonium across a mosaic of estuarine benthic habitats. <i>Limnology and Oceanography</i> , 2021, 66, 1281-1297.	1.6	14
606	Complex Interactions Between Aquatic Organisms and Their Chemical Environment Elucidated from Different Perspectives. , 2020, , 279-297.		5
607	Changes on Earth as a Result of Interaction Between the Society and Nature. <i>Sustainable Development Goals Series</i> , 2020, , 75-202.	0.2	1
608	Global Nitrogen in Sustainable Development: Four Challenges at the Interface of Science and Policy. <i>Encyclopedia of the UN Sustainable Development Goals</i> , 2020, , 1-16.	0.0	3
609	Effects of Ozone on Chinese Trees. , 2017, , 195-219.		2

#	ARTICLE	IF	CITATIONS
611	Carbon and Nitrogen Cycling in Agroecosystems: An Overview. , 2020, , 1-15.		4
612	An Overview of Atmospheric Reactive Nitrogen in China from a Global Perspective. , 2020, , 1-10.		3
613	Impacts of Nitrogen Deposition on Forest Ecosystems in China. , 2020, , 185-213.		5
614	Tools and Techniques for Nitrogen Management in Cereals. , 2019, , 111-126.		31
615	Understanding how changing soil nitrogen affects plant-pollinator interactions. Arthropod-Plant Interactions, 2019, 13, 671-684.	0.5	35
616	Interactions between plants and soil shaping the root microbiome under abiotic stress. Biochemical Journal, 2019, 476, 2705-2724.	1.7	198
618	Not All Nitrogen Is Created Equal: Differential Effects of Nitrate and Ammonium Enrichment in Coastal Wetlands. BioScience, 2020, 70, 1108-1119.	2.2	25
619	What does success look like for air quality policy? A perspective. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190326.	1.6	5
620	Mesorhizobium norvegicum sp. nov., a rhizobium isolated from a Lotus corniculatus root nodule in Norway. International Journal of Systematic and Evolutionary Microbiology, 2020, 70, 388-396.	0.8	10
621	nosX is essential for whole-cell N <sub>2</sub> O reduction in Paracoccus denitrificans but not for assembly of copper centres of nitrous oxide reductase. Microbiology (United Kingdom), 2020, 166, 909-917.	0.7	4
628	A three-domain copper-nitrite reductase with a unique sensing loop. IUCr, 2019, 6, 248-258.	1.0	15
629	The Nexus of Carbon, Nitrogen, and Biodiversity Impacts from Urban Metabolism. Journal of Industrial Ecology, 2018, 22, 853-867.	2.8	10
630	Long-Term Nutrient Enrichment of an Oligotroph-Dominated Wetland Increases Bacterial Diversity in Bulk Soils and Plant Rhizospheres. MSphere, 2020, 5, .	1.3	31
631	Ecological Intensification of Agriculture. World Scientific Series in Grand Public Policy Challenges of the 21st Century, 2018, , 437-472.	0.3	3
632	Nitrogen soil surface budgets for districts in Germany 1995 to 2017. Environmental Sciences Europe, 2020, 32, .	2.6	21
633	An Overview of Atmospheric Reactive Nitrogen Research: South Asian Perspective. Current World Environment Journal, 2019, 14, 10-26.	0.2	6
634	Diazotrophy in Alluvial Meadows of Subarctic River Systems. PLoS ONE, 2013, 8, e77342.	1.1	9
635	From the Ground Up: Global Nitrous Oxide Sources are Constrained by Stable Isotope Values. PLoS ONE, 2015, 10, e0118954.	1.1	43

#	ARTICLE	IF	CITATIONS
636	Influence of Edaphic, Climatic, and Agronomic Factors on the Composition and Abundance of Nitrifying Microorganisms in the Rhizosphere of Commercial Olive Crops. <i>PLoS ONE</i> , 2015, 10, e0125787.	1.1	44
637	Biological responses of the marine diatom <i>Chaetoceros socialis</i> to changing environmental conditions: A laboratory experiment. <i>PLoS ONE</i> , 2017, 12, e0188615.	1.1	15
638	Importance of habitat diversity to changes in benthic metabolism over land-use gradients: evidence from three subtropical estuaries. <i>Marine Ecology - Progress Series</i> , 2019, 631, 31-47.	0.9	7
639	Concentrations and biosphere-atmosphere fluxes of inorganic trace gases and associated ionic aerosol counterparts over the Amazon rainforest. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 15551-15584.	1.9	7
645	Contrasting decadal trends of subsurface excess nitrate in the western and eastern North Atlantic Ocean. <i>Biogeosciences</i> , 2020, 17, 3631-3642.	1.3	1
647	Increased nitrogen enrichment and shifted patterns in the world's grassland: 1860-2016. <i>Earth System Science Data</i> , 2019, 11, 175-187.	3.7	26
650	Dynamics of ammonia oxidizers and denitrifiers in response to compost addition in black soil, Northeast China. <i>PeerJ</i> , 2020, 8, e8844.	0.9	8
652	Global Warming - Causes, Impacts and Mitigation Strategies in Agriculture. <i>Current Journal of Applied Science and Technology</i> , 0, , 93-107.	0.3	9
653	Nachhaltige Entwicklung in einer Gesellschaft des Umbruchs - Zur Einführung. , 2021, , 1-15.		0
654	Impact of Climate Change on Functional AM Fungi in Rhizosphere. <i>Soil Biology</i> , 2021, , 397-416.	0.6	1
655	Persistent Nitrate in Alpine Waters with Changing Atmospheric Deposition and Warming Trends. <i>Environmental Science &amp; Technology</i> , 2021, 55, 14946-14956.	4.6	12
656	Overview of recent researches on nitrifying microorganisms in soil. <i>Soil Science and Plant Nutrition</i> , 2021, 67, 619-632.	0.8	14
657	Bipolar Membrane Electrodialysis for Ammonia Recovery from Synthetic Urine: Experiments, Modeling, and Performance Analysis. <i>Environmental Science &amp; Technology</i> , 2021, 55, 14886-14896.	4.6	39
658	Long-term ecosystem nitrogen limitation from foliar $>15$ N data and a land surface model. <i>Global Change Biology</i> , 2022, 28, 493-508.	4.2	7
659	The Conversion of Carbon Monoxide and Carbon Dioxide by Nitrogenases. <i>ChemBioChem</i> , 2022, 23, .	1.3	12
661	Experimental evidence shows minor contribution of nitrogen deposition to global forest carbon sequestration. <i>Global Change Biology</i> , 2022, 28, 899-917.	4.2	40
666	Biogeochemical Cycles of Nitrogen and Phosphorus. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2017, , 1-20.	0.3	0
667	Nitrogen Cycle. <i>Encyclopedia of Earth Sciences Series</i> , 2018, , 1-6.	0.1	0

#	ARTICLE	IF	CITATIONS
668	Nitrogen Footprint: A Novel Indicator to Quantify Nitrogen Loss to the Environment. Journal of Life Cycle Assessment Japan, 2018, 14, 120-133.	0.0	2
669	Nitrogen Cycle. Encyclopedia of Earth Sciences Series, 2018, , 987-991.	0.1	0
670	Minimal NOx emission by <i>Lysinibacillus sphaericus</i> in nutrient poor soil. Soil and Environment, 2018, 37, 89-94.	1.1	1
671	Functional Genomics of Denitrifying Bacteria Degrading Hydrocarbons. , 2019, , 1-21.		0
673	Globaler Klimawandel: die Grundlagen. , 2019, , 1-36.		0
676	Using Traditional and Simulation Methods for C and N Cycling Studies with Additional Periods of Human Civilisation: Replicating the Procedures at Regional Levels Advocate. , 2020, , 117-184.		0
677	Impact of Agriculture and Land Use on Ground Water Quality: A Case Study of Ladakh Cold Arid Region. International Journal of Current Microbiology and Applied Sciences, 2019, 8, 1447-1455.	0.0	0
678	Reactive Nitrogen Budgets in China. , 2020, , 87-109.		1
679	Functional Genomics of Denitrifying Bacteria Degrading Hydrocarbons. , 2020, , 203-223.		2
680	Global Nitrogen and Phosphorus Pollution. , 2020, , 421-431.		4
685	Toward Improved Nitrogen Fertilization with Precision Farming Based on Sensor and Satellite Technologies. Women in Engineering and Science, 2021, , 69-83.	0.2	0
686	Nutrient Budgeting of Primary Nutrients and Their Use Efficiency in India. International Research Journal of Pure and Applied Chemistry, 0, , 92-114.	0.2	3
687	A molecular dual carriageway. ELife, 2020, 9, .	2.8	1
688	Differential Gene Expression of <i>Brachypodium distachyon</i> Roots Colonized by <i>Gluconacetobacter diazotrophicus</i> and the Role of <i>BdCESA8</i> in the Colonization. Molecular Plant-Microbe Interactions, 2021, 34, 1143-1156.	1.4	3
689	Selective Enzymes at the Core of Advanced Electroanalytical Tools: The Bloom of Biosensors. , 2021, , 303-362.		2
691	Bayesian Network Approach to Modelling Nitrogen Utilization Efficiency of Dairy Cows. , 2020, , .		0
692	Potential interactive effects between invasive <i>Lumbricus terrestris</i> earthworms and the invasive plant <i>Alliaria petiolata</i> on a native plant <i>Podophyllum peltatum</i> in northeastern Ohio, USA. AoB PLANTS, 2021, 13, plaa073.	1.2	2
693	Contribution of Microbe-Mediated Processes in Nitrogen Cycle to Attain Environmental Equilibrium. Microorganisms for Sustainability, 2020, , 331-356.	0.4	1

#	ARTICLE	IF	CITATIONS
694	NH <sub>3</sub> aliasing absorption spectra at 1103.4 cm <sup>-1</sup> based on continuous quantum cascade laser. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 074201.	0.2	0
695	Global Nitrogen in Sustainable Development: Four Challenges at the Interface of Science and Policy. Encyclopedia of the UN Sustainable Development Goals, 2020, , 1-16.	0.0	1
696	Urban nitrogen budgets: flows and stock changes of potentially polluting nitrogen compounds in cities and their surroundings – a review. Journal of Integrative Environmental Sciences, 2020, 17, 57-71.	1.0	6
697	Research Progress on Response of Soil Nematodes Community to Nitrogen Deposition. International Journal of Ecology, 2020, 09, 179-185.	0.0	0
698	Do We Ignore Tobacco's Positive Ecological Role Too Long?. Natural Science, 2020, 12, 273-280.	0.2	0
700	In-situ automatic measuring device for ammonia volatilization in farmland. , 2021, , .		0
701	Forest defoliator outbreaks alter nutrient cycling in northern waters. Nature Communications, 2021, 12, 6355.	5.8	8
702	Data-driven estimates of fertilizer-induced soil NH <sub>3</sub> , NO and N <sub>2</sub> O emissions from croplands in China and their climate change impacts. Global Change Biology, 2022, 28, 1008-1022.	4.2	51
703	Influence of Simulated Nitrogen Deposition on the Soil Seed Bank of a Subtropical Evergreen Broadleaved Forest. Forests, 2021, 12, 1538.	0.9	1
705	Global Nitrogen in Sustainable Development: Four Challenges at the Interface of Science and Policy. Encyclopedia of the UN Sustainable Development Goals, 2021, , 485-499.	0.0	0
706	Dynamics of mineral forms of nitrogen of light gray forest surface-gleyed soil under long-time anthropogenic impact. Vĕstník Lidské společnosti ekologického zemědělství Agronomický ústav, 2020, 24, 45-50.		0
708	Reflections on developing a simulation model on sustainable and healthy diets for decision makers: Comment on the paper by Kopainsky. Systems Research and Behavioral Science, 2020, 37, 928-935.	0.9	0
709	Climate, soil nutrients, and stand characteristics jointly determine large-scale patterns of biomass growth rates and allocation in Pinus massoniana plantations. Forest Ecology and Management, 2022, 504, 119839.	1.4	15
710	Mitigation and actions toward nitrogen losses in Pakistan. , 2022, , 149-175.		2
711	Nitrogen sinks in the agro-food system of Pakistan. , 2022, , 29-51.		2
712	Nitrogen emissions from agriculture sector in Pakistan: context, pathways, impacts and future projections. , 2022, , 99-125.		2
713	Heavy rainfall in peak growing season had larger effects on soil nitrogen flux and pool than in the late season in a semiarid grassland. Agriculture, Ecosystems and Environment, 2022, 326, 107785.	2.5	4
714	Factor affecting nitrate in a mixed land-use watershed of southern China based on dual nitrate isotopes, sources or transformations?. Journal of Hydrology, 2022, 604, 127220.	2.3	23

#	ARTICLE	IF	CITATIONS
715	Nitrogen and Sulfur Additions Improved the Diversity of nirK- and nirS-Type Denitrifying Bacterial Communities of Farmland Soil. <i>Biology</i> , 2021, 10, 1191.	1.3	2
716	Phylosymbiosis in the Rhizosphere Microbiome Extends to Nitrogen Cycle Functional Potential. <i>Microorganisms</i> , 2021, 9, 2476.	1.6	2
717	Estimating Nitrogen Flows and Nitrogen Footprint for Agro-Food System of Rwanda Over the Last Five Decades: Challenges and Measures. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	1
718	Insights into nitrogen footprint accounting for products and application to an organic pig farm. <i>Ecological Indicators</i> , 2021, 133, 108411.	2.6	3
719	Enabling Biological Nitrogen Fixation for Cereal Crops in Fertilized Fields. <i>ACS Synthetic Biology</i> , 2021, 10, 3264-3277.	1.9	42
720	Towards a comprehensive understanding of free-living nitrogen fixation. <i>Circular Agricultural Systems</i> , 2021, 1, 1-11.	0.5	6
721	Exploring river nitrogen and phosphorus loading and export to global coastal waters in the Shared Socio-economic pathways. <i>Global Environmental Change</i> , 2022, 72, 102426.	3.6	62
722	Transcriptional Landscape of Ectomycorrhizal Fungi and Their Host Provides Insight into N Uptake from Forest Soil. <i>MSystems</i> , 2022, 7, e0095721.	1.7	11
723	Dry-deposition of inorganic and organic nitrogen aerosols in Xiamen Bay: Fluxes, sources, and biogeochemical significance. <i>Science of the Total Environment</i> , 2022, 815, 152912.	3.9	4
725	<i>NosZ</i> gene cloning, reduction performance and structure of <i>Pseudomonas citronellolis</i> WXP-4 nitrous oxide reductase. <i>RSC Advances</i> , 2022, 12, 2549-2557.	1.7	5
726	Ammonia Recovery with Sweeping Gas Membrane Distillation: Energy and Removal Efficiency Analysis. <i>ACS ES&amp;T Engineering</i> , 2022, 2, 617-628.	3.7	11
727	<i>In Vivo</i> Temperature Dependency of Molybdenum and Vanadium Nitrogenase Activity in the Heterocystous Cyanobacteria <i>Anabaena variabilis</i> . <i>Environmental Science &amp; Technology</i> , 2022, 56, 2760-2769.	4.6	9
729	Phosphate Fixation and P Mineralogy on Natural and Ca-Modified Zeolites During Simultaneous Nutrient Removal. <i>Water, Air, and Soil Pollution</i> , 2022, 233, 1.	1.1	5
730	The retention dynamics of early-spring N input in a temperate forest ecosystem: Implications for winter N deposition. <i>Global Ecology and Conservation</i> , 2022, 33, e01966.	1.0	0
731	Competitive interactions shape plant responses to nitrogen fertilization and drought: evidence from a microcosm experiment with <i>Lilium bulbiferum</i> L. and <i>Secale cereale</i> L.. <i>Plant Ecology</i> , 2022, 223, 437-451.	0.7	0
732	Application of pincer metal complexes in catalytic transformations. , 2022, , 1-68.		0
733	<i>Aquibium microcysteis</i> gen. nov., sp. nov., isolated from a <i>Microcystis aeruginosa</i> culture and reclassification of <i>Mesorhizobium carbonis</i> as <i>Aquibium carbonis</i> comb. nov. and <i>Mesorhizobium oceanicum</i> as <i>Aquibium oceanicum</i> comb. nov. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2022, 72, .	0.8	17
734	Potential denitrification activity response to long-term nitrogen fertilization - A global meta-analysis. <i>Journal of Cleaner Production</i> , 2022, 336, 130451.	4.6	15

#	ARTICLE	IF	CITATIONS
735	Reconstructing the historical expansion of industrial swine production from Landsat imagery. <i>Scientific Reports</i> , 2022, 12, 1736.	1.6	7
736	Global reactive nitrogen loss in orchard systems: A review. <i>Science of the Total Environment</i> , 2022, 821, 153462.	3.9	22
737	Nitrogen Budget and Statistical Entropy Analysis of the Tiber River Catchment, a Highly Anthropized Environment. <i>Soil Systems</i> , 2022, 6, 17.	1.0	1
738	Delineation of mechanistic approaches of rhizosphere microorganisms facilitated plant health and resilience under challenging conditions. <i>3 Biotech</i> , 2022, 12, 57.	1.1	9
739	Fate of nitrogen ( <sup>15</sup> N) fertilizer in tall fescue seed systems at different application timings. <i>Agronomy Journal</i> , 0, , .	0.9	2
740	Temperature sensitivity of woody nitrogen fixation across species and growing temperatures. <i>Nature Plants</i> , 2022, 8, 209-216.	4.7	17
741	Consolidation of agricultural land can contribute to agricultural sustainability in China. <i>Nature Food</i> , 2021, 2, 1014-1022.	6.2	92
742	Metabolic Model of the Nitrogen-Fixing Obligate Aerobe <i>Azotobacter vinelandii</i> Predicts Its Adaptation to Oxygen Concentration and Metal Availability. <i>MBio</i> , 2021, 12, e0259321.	1.8	16
743	The sustainability of phytomass-derived materials: thermodynamical aspects, life cycle analysis and research perspectives. <i>Green Chemistry</i> , 2022, 24, 2653-2679.	4.6	3
744	Pervasive RNA Regulation of Metabolism Enhances the Root Colonization Ability of Nitrogen-Fixing Symbiotic $\pm$ -Rhizobia. <i>MBio</i> , 2022, 13, e0357621.	1.8	7
745	Transformation archetypes in global food systems. <i>Sustainability Science</i> , 2022, 17, 1827-1840.	2.5	8
746	Quantifying country-to-global scale nitrogen fixation for grain legumes II. Coefficients, templates and estimates for soybean, groundnut and pulses. <i>Plant and Soil</i> , 2022, 474, 1-15.	1.8	26
747	Evaluation of developing maize microbiomes and associations among nitrogen cyclers and key fungal taxa. <i>Microbiology (United Kingdom)</i> , 2022, 168, .	0.7	1
748	Intensity and Duration of Nitrogen Addition Jointly Alter Soil Nutrient Availability in a Temperate Grassland. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	8
749	Development of a Process-Based N <sub>2</sub> O Emission Model for Natural Forest and Grassland Ecosystems. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	8
750	deepNEC: a novel alignment-free tool for the identification and classification of nitrogen biochemical network-related enzymes using deep learning. <i>Briefings in Bioinformatics</i> , 2022, , .	3.2	2
751	Impact of Nutrient Management on Wheat/Vegetable Yields and the Fate of <sup>15</sup> N-Labeled Fertilizer in the Yangtze River Basin. <i>Frontiers in Environmental Science</i> , 2022, 10, .	1.5	1
752	Deceleration of Cropland-N <sub>2</sub> O Emissions in China and Future Mitigation Potentials. <i>Environmental Science &amp; Technology</i> , 2022, 56, 4665-4675.	4.6	22



#	ARTICLE	IF	CITATIONS
753	Phylogenetic diversity of NO reductases, new tools for nor monitoring, and insights into N2O production in natural and engineered environments. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, 1.	3.3	2
754	Global gene expression profiling under nitrogen stress identifies key genes involved in nitrogen stress adaptation in maize ( <i>Zea mays</i> L.). <i>Scientific Reports</i> , 2022, 12, 4211.	1.6	10
755	Dissolved nitrogen form mediates phycocyanin content in cyanobacteria. <i>Freshwater Biology</i> , 2022, 67, 954-964.	1.2	10
756	Microbial Biogeochemical Cycling of Nitrogen in Arid Ecosystems. <i>Microbiology and Molecular Biology Reviews</i> , 2022, 86, e0010921.	2.9	22
757	Selective Biocatalytic Defunctionalization of Raw Materials. <i>ChemSusChem</i> , 2022, 15, .	3.6	11
758	Soil clay minerals: An overlooked mediator of gross N transformations in Regosolic soils of subtropical montane landscapes. <i>Soil Biology and Biochemistry</i> , 2022, 168, 108612.	4.2	11
759	Nitrogen flow in the food production and consumption system within the Yangtze River Delta city cluster: Influences of cropland and urbanization. <i>Science of the Total Environment</i> , 2022, 824, 153861.	3.9	12
760	Soil carbon sequestration, greenhouse gas emissions, and water pollution under different tillage practices. <i>Science of the Total Environment</i> , 2022, 826, 154161.	3.9	30
761	A New Linkage Toward a Sustainable Society in COVID-19 Under the Global Environmental Change. <i>Trends in the Sciences</i> , 2021, 26, 11_72-11_77.	0.0	1
762	Spatio-temporal characteristics and determinants of anthropogenic nitrogen and phosphorus inputs in an ecologically fragile karst basin: Environmental responses and management strategies. <i>Ecological Indicators</i> , 2021, 133, 108453.	2.6	10
764	Determination of the Connectedness of Land Use, Land Cover Change to Water Quality Status of a Shallow Lake: A Case of Lake Kyoga Basin, Uganda. <i>Sustainability</i> , 2022, 14, 372.	1.6	6
765	Electrocoagulation Sludge Valorizationâ€™A Review. <i>Resources</i> , 2021, 10, 127.	1.6	19
766	Soil quality and pollution assessment around Jumar watershed of Jharkhand, India. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	0.6	7
767	Effects of Nitrogen Deposition on Forest Ecosystems. , 2022, , 1-23.		2
768	Soil Management Vis-Ã-Vis Carbon Sequestration in Relation to Land Use Cover/Change in Terrestrial Ecosystemâ€™A Review. , 2022, , 43-78.		7
769	Response of plant functional traits to nitrogen enrichment under climate change: A meta-analysis. <i>Science of the Total Environment</i> , 2022, 834, 155379.	3.9	10
770	Water stress and nitrogen supply affect floral traits and pollination of the white mustard, <i>Sinapis alba</i> (Brassicaceae). <i>PeerJ</i> , 2022, 10, e13009.	0.9	7
771	Determining the hot spots and hot moments of soil N2O emissions and mineral N leaching in a mixed landscape under subtropical monsoon climatic conditions. <i>Geoderma</i> , 2022, 420, 115896.	2.3	4

#	ARTICLE	IF	CITATIONS
795	A CCaMK/Cyclops response element in the promoter of <i>Lotus japonicus</i> calcium-binding protein 1 ( <i>CBP1</i> ) mediates transcriptional activation in root symbioses. <i>New Phytologist</i> , 2022, 235, 1196-1211.	3.5	11
797	Emerging investigator series: contributions of reactive nitrogen species to transformations of organic compounds in water: a critical review. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 851-869.	1.7	5
798	Two Dominant Herbaceous Species Have Different Plastic Responses to N Addition in a Desert Steppe. <i>Frontiers in Plant Science</i> , 2022, 13, 801427.	1.7	1
799	Interaction between soil and fertiliser nitrogen drives plant nitrogen uptake and nitrous oxide (N <sub>2</sub> O) emissions in tropical sugarcane systems. <i>Plant and Soil</i> , 2022, 477, 647-663.	1.8	5
800	A nitrate budget of the Bohai Sea based on an isotope mass balance model. <i>Biogeosciences</i> , 2022, 19, 2397-2415.	1.3	9
801	Nitrite reduction in bacteria: A comprehensive view of nitrite reductases. <i>Coordination Chemistry Reviews</i> , 2022, 464, 214560.	9.5	15
802	Low-level nitrogen and short-term addition increase soil carbon sequestration in Chinese forest ecosystems. <i>Catena</i> , 2022, 215, 106333.	2.2	5
803	Drivers of multi-decadal nitrate regime shifts in a large European catchment. <i>Environmental Research Letters</i> , 2022, 17, 064039.	2.2	8
804	When do cover crops reduce nitrate leaching? A global meta-analysis. <i>Global Change Biology</i> , 2022, 28, 4736-4749.	4.2	36
805	Impacts of crop type, management and soil quality indicators on background nitrous oxide emissions (BNE) from Chinese croplands: a quantitative review and analysis. <i>Environmental Science Atmospheres</i> , 2022, 2, 563-573.	0.9	1
806	Genomics of ammonia-oxidizing bacteria and denitrification in wastewater treatment plants. , 2022, , 237-256.		0
807	Global nutrient cycling by commercially targeted marine fish. <i>Biogeosciences</i> , 2022, 19, 2537-2555.	1.3	8
808	Effects of ozone air pollution on crop pollinators and pollination. <i>Global Environmental Change</i> , 2022, 75, 102529.	3.6	9
809	Backgrounds as a potentially important component of riverine nitrate loads. <i>Science of the Total Environment</i> , 2022, 838, 155999.	3.9	2
810	Isotopic constraints confirm the significant role of microbial nitrogen oxides emissions from the land and ocean environment. <i>National Science Review</i> , 2022, 9, .	4.6	8
811	Nitrogen input enhances microbial carbon use efficiency by altering plant-microbe-mineral interactions. <i>Global Change Biology</i> , 2022, 28, 4845-4860.	4.2	36
813	Applying C:N ratio to assess the rationality of estimates of carbon sequestration in terrestrial ecosystems and nitrogen budgets. , 2022, 1, .		11
814	Explanations for nitrogen decline. <i>Science</i> , 2022, 376, 1169-1170.	6.0	4

#	ARTICLE	IF	CITATIONS
815	Improving Nitrogen Use Efficiency in Aerobic Rice Based on Insights Into the Ecophysiology of Archaeal and Bacterial Ammonia Oxidizers. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	11
816	Data-driven quantification of nitrogen enrichment impact on Northern Hemisphere plant biomass. <i>Environmental Research Letters</i> , 2022, 17, 074032.	2.2	5
817	Band Phosphorus and Sulfur Fertilization as Drivers of Efficient Management of Nitrogen of Maize ( <i>Zea mays</i> L.). <i>Plants</i> , 2022, 11, 1660.	1.6	3
818	Integration of algae treatment with hydroponic crop waste to reduce impact of nutrient waste streams. , 2022, 1, 203-215.		2
819	Representing the Dynamic Response of Vegetation to Nitrogen Limitation via Biological Nitrogen Fixation in the CLASSIC Land Model. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	1.9	9
820	Predicting and Scoring Estuary Ecological Health Using a Bayesian Belief Network. <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	1
821	Catchment controls of denitrification and nitrous oxide production rates in headwater remediated agricultural streams. <i>Science of the Total Environment</i> , 2022, 838, 156513.	3.9	6
822	Modelling the effects of stocking rate, soil type, agroclimate location and nitrogen input on the grass DM yield and forage self-sufficiency of Irish grass-based dairy production systems. <i>Journal of Agricultural Science</i> , 2022, 160, 235-249.	0.6	2
823	A new assessment of global and regional budgets, fluxes, and lifetimes of atmospheric reactive N and S gases and aerosols. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8343-8368.	1.9	5
824	A Ceâ€œUiOâ€œ66 Metalâ€œOrganic Frameworkâ€œBased Grapheneâ€œEmbedded Photocatalyst with Controllable Activation for Solar Ammonia Fertilizer Production. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	6
825	Role and Responsibility of Sustainable Chemistry and Engineering in Providing Safe and Sufficient Nitrogen Fertilizer Supply at Turbulent Times. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 8997-9001.	3.2	22
826	Editorial: Refining the Interpretation of Nitrogen Isotopes in Deep Time Systems. <i>Frontiers in Earth Science</i> , 0, 10, .	0.8	1
827	A Ceâ€œUiOâ€œ66 Metalâ€œOrganic Frameworkâ€œBased Grapheneâ€œEmbedded Photocatalyst with Controllable Activation for Solar Ammonia Fertilizer Production. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	17
829	Estimation of surface ammonia concentrations and emissions in China from the polar-orbiting Infrared Atmospheric Sounding Interferometer and the FY-4A Geostationary Interferometric Infrared Sounder. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 9099-9110.	1.9	9
830	Comparison between the exotic <i>Coreopsis grandiflora</i> and native <i>Dendranthema indicum</i> across variable nitrogen deposition conditions. <i>Acta Physiologiae Plantarum</i> , 2022, 44, .	1.0	3
831	Mechanisms of nitrogen transfer in a model clover-ryegrass pasture: a <sup>15</sup> N-tracer approach. <i>Plant and Soil</i> , 2022, 480, 369-389.	1.8	2
832	Electroreduction of nitrogen with almost 100% current-to-ammonia efficiency. <i>Nature</i> , 2022, 609, 722-727.	13.7	142
833	Low Dispersity Telechelic Polydimethylsiloxanes Synthesized in Ammonia Medium. <i>ACS Applied Polymer Materials</i> , 2022, 4, 5696-5707.	2.0	1

#	ARTICLE	IF	CITATIONS
834	Facile Tailoring of the Electronic Structure and the d-Band Center of Copper-Doped Cobaltate for Efficient Nitrate Electrochemical Hydrogenation. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 35477-35484.	4.0	23
835	Nitrogen Addition Decreases Rhizodeposition by Chinese Fir ( <i>Cunninghamia lanceolata</i> (Lamb.) Hook) Seedlings and Its Distribution in Soil Aggregates. <i>Forests</i> , 2022, 13, 1166.	0.9	2
836	Genetic modification of flavone biosynthesis in rice enhances biofilm formation of soil diazotrophic bacteria and biological nitrogen fixation. <i>Plant Biotechnology Journal</i> , 2022, 20, 2135-2148.	4.1	38
837	Impacts of Soil Moisture and Fertilizer on N <sub>2</sub> O Emissions from Cornfield Soil in a Karst Watershed, SW China. <i>Atmosphere</i> , 2022, 13, 1200.	1.0	4
838	Optimal Fertilizer Application Reduced Nitrogen Leaching and Maintained High Yield in Wheat-Maize Cropping System in North China. <i>Plants</i> , 2022, 11, 1963.	1.6	2
839	Challenges in measuring nitrogen isotope signatures in inorganic nitrogen forms: An interlaboratory comparison of three common measurement approaches. <i>Rapid Communications in Mass Spectrometry</i> , 2022, 36, .	0.7	5
840	Fungal Communities Are More Sensitive to the Simulated Environmental Changes than Bacterial Communities in a Subtropical Forest: the Single and Interactive Effects of Nitrogen Addition and Precipitation Seasonality Change. <i>Microbial Ecology</i> , 2023, 86, 521-535.	1.4	10
841	Characteristics of nitrogen deposition research within grassland ecosystems globally and its insight from grassland microbial community changes in China. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	5
842	Water supply processes are responsible for significant nitrogen fluxes across the United States. <i>Global Biogeochemical Cycles</i> , 0, , .	1.9	3
843	Diverse nirS-type Denitrifying Bacteria Contribute to Vital Nitrogen Loss in Natural Acidic Red Soils. <i>Current Microbiology</i> , 2022, 79, .	1.0	1
844	Degradation reduces the diversity of nitrogen-fixing bacteria in the alpine wetland on the Qinghai-Tibet Plateau. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	7
845	Variations and its driven factors of anthropogenic nitrogen loads in the Yangtze River Economic Belt during 2000â€“2019. <i>Environmental Science and Pollution Research</i> , 2023, 30, 2450-2468.	2.7	6
846	Insights from Fossil-Bound Nitrogen Isotopes in Diatoms, Foraminifera, and Corals. <i>Annual Review of Marine Science</i> , 2023, 15, 407-430.	5.1	5
847	Stress corrosion cracking of the slip-ring connectors of a 2ÂMW wind turbine. <i>Engineering Failure Analysis</i> , 2022, 141, 106732.	1.8	4
848	Nitrogen cycling and management focusing on the central role of soils: a review. <i>Soil Science and Plant Nutrition</i> , 2022, 68, 514-525.	0.8	3
849	Revisiting the growth rate hypothesis: Towards a holistic stoichiometric understanding of growth. <i>Ecology Letters</i> , 2022, 25, 2324-2339.	3.0	17
850	Spatial heterogeneity of ammonia fluxes in a deciduous forest and adjacent grassland. <i>Agricultural and Forest Meteorology</i> , 2022, 326, 109128.	1.9	0
851	Trends in total nitrogen concentrations in the Three Rivers Headwater Region. <i>Science of the Total Environment</i> , 2022, 852, 158462.	3.9	5

#	ARTICLE	IF	CITATIONS
852	Tides: Lifting life in the ocean. , 2023, , 307-331.		0
853	Evaluating the anthropogenic nitrogen emissions to water using a hybrid approach in a city cluster: Insights into historical evolution, attribution, and mitigation potential. <i>Science of the Total Environment</i> , 2023, 855, 158500.	3.9	8
854	Effects of Aeration Rates and Patterns on Shortcut Nitrification and Denitrification. <i>Journal of Environmental Protection</i> , 2022, 13, 640-656.	0.3	0
855	Optimizing water and nitrogen productivity of wheat and triticale across diverse production environments to improve the sustainability of baked products. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	0
856	Background soil nitrogen regulates the contribution of cover crop-derived nitrogen into subsequent crop. <i>Biology and Fertility of Soils</i> , 2022, 58, 871-881.	2.3	1
857	Losses of phosphorus, potassium and nitrogen from horse manure left on the ground. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2022, 72, 893-901.	0.3	1
859	Enhancement of nitrogen use efficiency through agronomic and molecular based approaches in cotton. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	10
860	Effects of nitrogen addition and watering on soil seed bank germination in a semiarid grassland on the Loess Plateau of China. <i>Land Degradation and Development</i> , 2023, 34, 142-155.	1.8	2
861	Long-term regional trends of nitrogen and sulfur deposition in the United States from 2002 to 2017. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 12749-12767.	1.9	14
862	A Critical Review for Real-Time Continuous Soil Monitoring: Advantages, Challenges, and Perspectives. <i>Environmental Science &amp; Technology</i> , 2022, 56, 13546-13564.	4.6	12
863	Ecological impacts of N-deposition in a remote, high-elevation lake in the Three River Headwaters Region, Qinghai-Tibetan Plateau. <i>Journal of Paleolimnology</i> , 2023, 69, 141-160.	0.8	1
864	15N Natural Abundance Characteristics of Ammonia Volatilization from Soils Applied by Different Types of Fertilizer. <i>Atmosphere</i> , 2022, 13, 1566.	1.0	2
865	The Influence of Plants on the Migration and Transformation of Nitrogen in Plant-Soil Systems: a Review. <i>Journal of Soil Science and Plant Nutrition</i> , 2022, 22, 4084-4102.	1.7	5
866	A Systems Approach to Chemistry Is Required to Achieve Sustainable Transformation of Matter: The Case of Ammonia and Reactive Nitrogen. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 12933-12947.	3.2	6
867	A Spectroscopically Observed Iron Nitrosyl Intermediate in the Reduction of Nitrate by a Surface-Conjugated Electrocatalyst. <i>Journal of the American Chemical Society</i> , 2022, 144, 17824-17831.	6.6	15
868	Enhanced susceptibility to oiling may limit denitrification recovery in marshes subjected to woody encroachment. <i>Frontiers in Environmental Science</i> , 0, 10, .	1.5	0
869	Evaluation of Nitrogen Fertilizer Fates and Related Environmental Risks for Main Cereals in China's Croplands from 2004 to 2018. <i>Plants</i> , 2022, 11, 2507.	1.6	1
870	Identifying thresholds of nitrogen enrichment for substantial shifts in arbuscular mycorrhizal fungal community metrics in a temperate grassland of northern China. <i>New Phytologist</i> , 2023, 237, 279-294.	3.5	22

#	ARTICLE	IF	CITATIONS
871	Nitrate leaching losses and the fate of 15N fertilizer in perennial intermediate wheatgrass and annual wheat – A field study. <i>Science of the Total Environment</i> , 2023, 857, 159255.	3.9	9
872	Deep ploughing in the summer fallow season and optimizing nitrogen rate can increase yield, water, and nitrogen efficiencies of rain-fed winter wheat in the Loess Plateau region of China. <i>PeerJ</i> , 0, 10, e14153.	0.9	0
873	The influence of saturation on the surface structure of mixed fatty acid-on-water aerosol: a molecular dynamics study. <i>Environmental Science Atmospheres</i> , 0, , .	0.9	1
874	Respiratory energy demands and scope for demand expansion and destruction. <i>Plant Physiology</i> , 2023, 191, 2093-2103.	2.3	4
875	Two Centuries of Change in the Native Flora of Franklin County, Massachusetts, U.S.A.. <i>Rhodora</i> , 2022, 123, .	0.0	2
876	History of anthropogenic Nitrogen inputs (HaNi) to the terrestrial biosphere: a 5-arcmin resolution annual dataset from 1860 to 2019. <i>Earth System Science Data</i> , 2022, 14, 4551-4568.	3.7	17
877	Nitrogen and Phosphorus Fertilizer Increases the Uptake of Soil Heavy Metal Pollutants by Plant Community. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2022, 109, 1059-1066.	1.3	7
878	PANOMICS at the interface of root-soil microbiome and BNI. <i>Trends in Plant Science</i> , 2023, 28, 106-122.	4.3	12
879	Influence of Sewage Sludge and Heavy Fertilization on Nitrate Leaching in Soils: An Overview. , 0, , .		0
880	Comparison and Selection of Conventional PCR Primer Sets for Studies Associated with Nitrogen Cycle Microorganisms in Surface Soil. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 10314.	1.3	1
881	An Optimal Decision Support System Based on Crop Dynamic Model for N-Fertilizer Treatment. <i>Sensors</i> , 2022, 22, 7613.	2.1	3
882	CANOPS-GRB v1.0: a new Earth system model for simulating the evolution of ocean-atmosphere chemistry over geologic timescales. <i>Geoscientific Model Development</i> , 2022, 15, 7593-7639.	1.3	4
883	The Impact of Land Cover on Selected Water Quality Parameters in Polish Lowland Streams during the Non-Vegetative Period. <i>Water (Switzerland)</i> , 2022, 14, 3295.	1.2	5
884	Variation in Leaf Type, Canopy Architecture, and Light and Nitrogen Distribution Characteristics of Two Winter Wheat ( <i>Triticum aestivum</i> L.) Varieties with High Nitrogen-Use Efficiency. <i>Agronomy</i> , 2022, 12, 2411.	1.3	2
885	Green Hydrogen Production Technologies from Ammonia Cracking. <i>Energies</i> , 2022, 15, 8246.	1.6	16
886	Correlation analysis and application investigation of multi-angle simultaneous polarization measurement data and concentration of suspended particulate matter in the atmosphere. <i>Frontiers in Environmental Science</i> , 0, 10, .	1.5	1
887	Research Progress on the Effects of Nitrogen Deposition on Plant Pathogens. <i>International Journal of Ecology</i> , 2022, 11, 510-519.	0.0	0
888	Disparate history of transgressing planetary boundaries for nutrients. <i>Global Environmental Change</i> , 2023, 78, 102628.	3.6	6

#	ARTICLE	IF	CITATIONS
889	Constant carbon dosing of a pilot-scale denitrifying bioreactor to improve nitrate removal from agricultural tile drainage. <i>Ecological Engineering</i> , 2023, 187, 106851.	1.6	2
890	Soil carbon, nitrogen, and biotic properties after long-term no-till and nitrogen fertilization in a subtropical Vertisol. <i>Soil and Tillage Research</i> , 2023, 227, 105614.	2.6	3
891	Importance of Ensuring Sustainable Fertilizer Resource Management. <i>Material Cycles and Waste Management Research</i> , 2021, 32, 445-452.	0.0	0
892	Forest-atmosphere exchange of reactive nitrogen in a remote region Part II: Modeling annual budgets. <i>Biogeosciences</i> , 2022, 19, 5287-5311.	1.3	0
893	Can 15N leaf-labelling reliably quantify rhizodeposited nitrogen remaining after a nodulated legume crop?. <i>Nutrient Cycling in Agroecosystems</i> , 2023, 125, 235-260.	1.1	2
894	Mackinawite (FeS) Chemodenitrification of Nitrate (NO <sub>3</sub> <sup>-</sup> ) under Acidic to Neutral pH Conditions and Its Stable N and O Isotope Dynamics. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 2801-2811.	1.2	3
895	Chemical Composition and Deposition Characteristics of Precipitation into a Typical Temperate Forest in Northeastern China. <i>Forests</i> , 2022, 13, 2024.	0.9	0
896	Stocking method and terminology in grazing management: Evaluation of assertions from educational, outreach, and engagement programs. <i>Crop Science</i> , 2023, 63, 495-500.	0.8	4
897	Electrochemical ammonia production from nitrates in agricultural tile drainage: Technoeconomic and global warming analysis. <i>AIChE Journal</i> , 0, , .	1.8	2
898	Significant contributions of combustion-related sources to ammonia emissions. <i>Nature Communications</i> , 2022, 13, .	5.8	21
899	Micro-fractionation shows microbial community changes in soil particles below 20 µm. <i>Frontiers in Ecology and Evolution</i> , 0, 10, .	1.1	6
900	Associative nitrogen fixation could be common in South African mesic grassland. <i>African Journal of Range and Forage Science</i> , 2023, 40, 385-391.	0.6	0
901	Vigorous Rootstocks Improve Nitrogen Efficiency of Tomato by Inducing Morphological, Physiological and Biochemical Responses. <i>Gesunde Pflanzen</i> , 2023, 75, 565-575.	1.7	3
903	Increasing Wood δ <sup>15</sup> N in Response to Pig Manure Application. <i>Forests</i> , 2023, 14, 8.	0.9	0
904	Groundwater nitrate problem and countermeasures in strongly affected EU countries—a comparison between Germany, Denmark and Ireland. <i>Grundwasser</i> , 0, , .	1.4	0
906	Desorption of Ammonia Adsorbed on Prussian Blue Analogs by Washing with Saturated Ammonium Hydrogen Carbonate Solution. <i>Molecules</i> , 2022, 27, 8840.	1.7	2
907	Soil Acidification in Nutrient-Enriched Soils Reduces the Growth, Nutrient Concentrations, and Nitrogen-Use Efficiencies of <i>Vachellia sieberiana</i> (DC.) Kyal. & Boatwr Saplings. <i>Plants</i> , 2022, 11, 3564.	1.6	3
908	The Effects of Long-Term Nitrogen Enrichment on Estuarine Benthic-Pelagic Coupling. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 1955.	1.2	0

#	ARTICLE	IF	CITATIONS
909	Potential to improve nitrogen use efficiency (NUE) by use of perennial mobile green manures. Nutrient Cycling in Agroecosystems, 0, , .	1.1	0
910	METHODOLOGY FOR ASSESSING THE SURFACE WATER POLLUTION BY NUTRIENTS. Ukrainian Geographical Journal, 2023, , 37-48.	0.2	4
911	The Co-Evolution Aspects of the Biogeochemical Role of Phytoplankton in Aquatic Ecosystems: A Review. Biology, 2023, 12, 92.	1.3	6
912	Fundidesulfovibrio agrisoli sp. nov., A Nitrogen-Fixing Bacterium Isolated from Rice Field. Current Microbiology, 2023, 80, .	1.0	1
913	Biotechnology for Sustainable Production of Food. , 2023, , 1-29.		1
914	Climate and landuse change enhance spatio-temporal variability of Dongjiang river flow and ammonia nitrogen. Science of the Total Environment, 2023, 867, 161483.	3.9	8
915	A Holistic Approach to Stormwater Green Infrastructure. Journal of Environmental Science and Engineering Technology, 0, 8, 1-9.	0.1	0
916	Tree symbioses sustain nitrogen fixation despite excess nitrogen supply. Ecological Monographs, 2023, 93, .	2.4	11
917	Effect of Agricultural Structure Adjustment on Spatio-Temporal Patterns of Net Anthropogenic Nitrogen Inputs in the Pearl River Basin from 1990 to 2019. Land, 2023, 12, 311.	1.2	2
918	Structural correlations of nitrogenase active sites using nuclear resonance vibrational spectroscopy and QM/MM calculations. Faraday Discussions, 0, 243, 253-269.	1.6	1
919	Field comparison of two novel open-path instruments that measure dry deposition and emission of ammonia using flux-gradient and eddy covariance methods. Atmospheric Measurement Techniques, 2023, 16, 529-546.	1.2	4
920	Unearthing soil-plant-microbiota crosstalk: Looking back to move forward. Frontiers in Plant Science, 0, 13, .	1.7	6
921	Why cutting respiratory CO <sub>2</sub> loss from crops is possible, practicable, and prudential. , 0, , .		5
922	Effect of Compost Derived from Urban Waste on Chard (Beta vulgaris L., var cycla) Yield and Soil GHG Fluxes in a Mediterranean Agricultural System. Atmosphere, 2023, 14, 246.	1.0	0
923	Environmental air pollution: an anthropogenic or a natural issue?. , 2023, , 1-38.		1
924	Multi-environment assessment of a yellow hemp (Cannabis sativa L.) cultivar's eco-physiology and productivity under varying levels of nitrogen fertilisation. Industrial Crops and Products, 2023, 195, 116360.	2.5	0
925	Sustainable waste-nitrogen upcycling enabled by low-concentration nitrate electro dialysis and high-performance ammonia electrosynthesis. , 0, , .		1
926	Trends in anthropogenic ammonia emissions in China since 1980: A review of approaches and estimations. Frontiers in Environmental Science, 0, 11, .	1.5	5



#	ARTICLE	IF	CITATIONS
927	Challenges and applications of nitrate-reducing microbial biocathodes. <i>Bioelectrochemistry</i> , 2023, 152, 108436.	2.4	6
928	Response of water quality to climate warming and atmospheric deposition in an alpine lake of Tianshan Mountains, Central Asia. <i>Ecological Indicators</i> , 2023, 147, 109949.	2.6	5
929	Investigating atmospheric nitrate sources and formation pathways between heating and non-heating seasons in urban North China. <i>Environmental Research Letters</i> , 2023, 18, 034006.	2.2	3
930	Molecular transformation of organic nitrogen in Antarctic penguin guano-affected soil. <i>Environment International</i> , 2023, 172, 107796.	4.8	3
931	Current controversies on mechanisms controlling soil carbon storage: implications for interactions with practitioners and policy-makers. A review. <i>Agronomy for Sustainable Development</i> , 2023, 43, .	2.2	9
933	Coupling nitrate capture with ammonia production through bifunctional redox-electrodes. <i>Nature Communications</i> , 2023, 14, .	5.8	37
934	Projecting environmental suitability areas for the seaweed <i>Gracilaria birdiae</i> (Rhodophyta) in Brazil: Implications for the aquaculture pertaining to five environmentally crucial parameters. <i>Journal of Applied Phycology</i> , 2023, 35, 773-784.	1.5	0
935	Impact of different nitrogen additions on microbes and exopolysaccharides excretion in cyanobacterial biocrusts. <i>Plant and Soil</i> , 2023, 487, 229-247.	1.8	0
936	Abiotic reduction of nitrate to ammonium by iron (oxy)(hydr)oxides and its stable isotope ( $\delta^{15}\text{N}$ , $\delta^{18}\text{O}$ ) dynamics. <i>Geochimica Et Cosmochimica Acta</i> , 2023, 347, 28-41.	1.6	2
937	Disentangling In-stream Nitrate Uptake Pathways Based on Two-Station High-Frequency Monitoring in High-Order Streams. <i>Water Resources Research</i> , 2023, 59, .	1.7	2
938	Crop nitrogen (N) utilization mechanism and strategies to improve N use efficiency. <i>Acta Physiologiae Plantarum</i> , 2023, 45, .	1.0	10
940	Mythbusters: Unravelling the pollutant uptake processes in mosses for air quality biomonitoring. <i>Ecological Indicators</i> , 2023, 148, 110095.	2.6	4
941	Spatial effects of nitrogen deposition on soil organic carbon stocks in patchy degraded saline-alkaline grassland. <i>Geoderma</i> , 2023, 432, 116408.	2.3	2
942	Overview of physiological, biochemical, and regulatory aspects of nitrogen fixation in <i>Azotobacter vinelandii</i> . <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2022, 57, 492-538.	2.3	8
943	Regional estimates of nitrogen budgets for agricultural systems in the East African Community over the last five decades. <i>Agronomy for Sustainable Development</i> , 2023, 43, .	2.2	1
944	Regional Analysis of Nitrogen Flow within the Chesapeake Bay Watershed Food Production Chain Inclusive of Trade. <i>Environmental Science &amp; Technology</i> , 2023, 57, 4619-4631.	4.6	2
945	Trend and Interannual Variations of Reactive Nitrogen Deposition in China During 2008–2017 and the Roles of Anthropogenic Emissions and Meteorological Conditions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2023, 128, .	1.2	4
946	Nitrogen addition and fungal symbiosis alter early dune plant succession. <i>Oecologia</i> , 2023, 201, 1067-1077.	0.9	0

#	ARTICLE	IF	CITATIONS
947	Accelerating ammonia synthesis in a membraneless flow electrolyzer through coupling ambient dinitrogen oxidation and water splitting. <i>IScience</i> , 2023, 26, 106407.	1.9	1
948	Growth of <i>Stipa breviflora</i> does not respond to nitrogen addition because of its conservative nitrogen utilization. <i>Frontiers in Ecology and Evolution</i> , 0, 11, .	1.1	0
949	A dynamic ammonia emission model and the online coupling with WRFâ€‘Chem (WRFâ€‘SoilNâ€‘Chem v1.0): development and regional evaluation in China. <i>Geoscientific Model Development</i> , 2023, 16, 1641-1659.	1.3	5
950	Feamnox Bacterial Biofilms as an Alternative Biological Process for the Removal of Nitrogen from Agricultural Wastewater. <i>Agriculture (Switzerland)</i> , 2023, 13, 728.	1.4	0
951	Mediation of gaseous emissions and improving plant productivity by DCD and DMPP nitrification inhibitors: Meta-analysis of last three decades. <i>Environmental Science and Pollution Research</i> , 2023, 30, 64719-64735.	2.7	2
952	Estimation of the Potential Global Nitrogen Flow in a Nitrogen Recycling System with Industrial Countermeasures. <i>Sustainability</i> , 2023, 15, 6042.	1.6	3
953	Progress of electrochemical synthesis of nitric acid: catalyst design, mechanistic insights, protocol and challenges. <i>Journal of Materials Chemistry A</i> , 2023, 11, 10125-10148.	5.2	12
954	At-Field and On-Demand Nitrogenous Fertilizer Synthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2023, 11, 5803-5818.	3.2	4
955	Grand Challenges in environmental geochemistry. , 0, 1, .		0
956	Design of material regulatory mechanism for electrocatalytic converting NO/NO <sub>3</sub> <sup>+</sup> to NH <sub>3</sub> progress. <i>Natural Sciences</i> , 2023, 3, .	1.0	9
959	Nitrogen use efficiencyâ€‘a key to enhance crop productivity under a changing climate. <i>Frontiers in Plant Science</i> , 0, 14, .	1.7	25
960	Co-designing Electrocatalytic Systems with Separations To Improve the Sustainability of Reactive Nitrogen Management. <i>ACS Catalysis</i> , 2023, 13, 6268-6279.	5.5	4
961	The Contribution of Anammox to Nitrogen Removal Is Greater in Bulk Soils Than in Rhizosphere Soils in Riparian Wetlands Along the Yangtze River. <i>Global Biogeochemical Cycles</i> , 2023, 37, .	1.9	2
967	Nutrients and Eutrophication. <i>Springer Textbooks in Earth Sciences, Geography and Environment</i> , 2023, , 75-100.	0.1	2
979	Harmful algal blooms. , 2023, , 9-53.		0
1003	Nitrogen recovery from the municipal wastewater treatment plants. , 2023, , 165-193.		1
1017	Electrocatalytic upcycling of nitrogenous wastes into green ammonia: advances and perspectives on materials innovation. , 2023, 2, .		8
1024	The interplay between microbial communities and soil properties. <i>Nature Reviews Microbiology</i> , 0, , .	13.6	23

#	ARTICLE	IF	CITATIONS
1032	Effects of Nitrogen Deposition on Forest Ecosystems. , 2023, , 923-945.		0
1035	Ecophysiology and Genomics of N-cycling Microbes in the Environment. , 2023, , 135-146.		0
1036	Direct Methane Conversion: An Industrial View. , 2023, , 293-318.		0
1042	Nitrate contamination of soil and water: Implications for ecosystem functions and human health. , 2024, , 351-373.		0
1053	Monitoring nitrogen deposition in global forests. , 2024, , 17-38.		0
1059	Assessing nitrogen deposition and its impacts on forest ecosystems. , 2024, , 273-282.		0
1060	Processes and Elemental Flows. , 2023, , 13-56.		0
1069	Biobased and Agricultural Transitions. , 2023, , 122-138.		0
1072	Air Quality and Human Health. , 2023, , 317-352.		0
1073	Nitrogen deposition and its impacts on forest ecosystems. , 2024, , 1-13.		0
1088	Cyanobacteria: a key player in nutrient cycling. , 2024, , 579-596.		1
1089	Nitrogen cycle and its effect on phytoplankton community structure. , 2024, , 315-324.		0
1109	Nutrient dynamics in rivers and lakes. , 2024, , .		0