

Kentaro Hayashi

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3801979/kentaro-hayashi-publications-by-citations.pdf>
Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73 papers	1,316 citations	22 h-index	33 g-index
74 ext. papers	1,577 ext. citations	4.4 avg, IF	4.27 L-index

#	Paper	IF	Citations
73	Ammonia volatilization from a paddy field following applications of urea: rice plants are both an absorber and an emitter for atmospheric ammonia. <i>Science of the Total Environment</i> , 2008 , 390, 485-94	10.2	88
72	Atmospheric NH ₃ and NO ₂ concentration and nitrogen deposition in an agricultural catchment of Eastern China. <i>Science of the Total Environment</i> , 2010 , 408, 4624-32	10.2	73
71	Ammonia volatilization from the surface of a Japanese paddy field during rice cultivation. <i>Soil Science and Plant Nutrition</i> , 2006 , 52, 545-555	1.6	72
70	Nitrogen footprints: Regional realities and options to reduce nitrogen loss to the environment. <i>Ambio</i> , 2017 , 46, 129-142	6.5	70
69	Trace gas and particle emissions from open burning of three cereal crop residues: Increase in residue moistness enhances emissions of carbon monoxide, methane, and particulate organic carbon. <i>Atmospheric Environment</i> , 2014 , 95, 36-44	5.3	57
68	Deposition velocity of PM _{2.5} sulfate in the summer above a deciduous forest in central Japan. <i>Atmospheric Environment</i> , 2010 , 44, 4582-4587	5.3	55
67	Regional characteristics of dry deposition of sulfur and nitrogen compounds at EANET sites in Japan from 2003 to 2008. <i>Atmospheric Environment</i> , 2011 , 45, 1259-1267	5.3	53
66	Re-estimating NH ₃ Emissions from Chinese Cropland by a New Nonlinear Model. <i>Environmental Science & Technology</i> , 2016 , 50, 564-72	10.3	45
65	Radiocesium and radioiodine in soil particles agitated by agricultural practices: field observation after the Fukushima nuclear accident. <i>Science of the Total Environment</i> , 2012 , 425, 128-34	10.2	40
64	Chemical characterization and oxidative potential of particles emitted from open burning of cereal straws and rice husk under flaming and smoldering conditions. <i>Atmospheric Environment</i> , 2017 , 163, 118-127	5.3	39
63	Effects of elevated carbon dioxide, elevated temperature, and rice growth stage on the community structure of rice root-associated bacteria. <i>Microbes and Environments</i> , 2014 , 29, 184-90	2.6	35
62	Canopy-scale relationships between stomatal conductance and photosynthesis in irrigated rice. <i>Global Change Biology</i> , 2013 , 19, 2209-20	11.4	32
61	Isotopomer analysis of production, consumption and soil-to-atmosphere emission processes of N ₂ O at the beginning of paddy field irrigation. <i>Soil Biology and Biochemistry</i> , 2014 , 70, 66-78	7.5	29
60	Airborne nitrogen load in Japanese and Chinese agroecosystems. <i>Soil Science and Plant Nutrition</i> , 2010 , 56, 2-18	1.6	29
59	Cropland soil-plant systems control production and consumption of methane and nitrous oxide and their emissions to the atmosphere. <i>Soil Science and Plant Nutrition</i> , 2015 , 61, 2-33	1.6	27
58	Measurement of ammonia volatilization from flooded paddy fields in Vietnam. <i>Soil Science and Plant Nutrition</i> , 2009 , 55, 793-799	1.6	27
57	Importance of subsurface fluxes of water, nitrogen and phosphorus from rice paddy fields relative to surface runoff. <i>Agricultural Water Management</i> , 2019 , 213, 627-635	5.9	27

56	Elevated atmospheric CO ₂ levels affect community structure of rice root-associated bacteria. <i>Frontiers in Microbiology</i> , 2015 , 6, 136	5.7	26
55	Limited ammonia volatilization loss from upland fields of Andosols following fertilizer applications. <i>Agriculture, Ecosystems and Environment</i> , 2011 , 140, 534-538	5.7	25
54	Origin, distributions, and environmental significance of ubiquitous humic-like fluorophores in Antarctic lakes and streams. <i>Water Research</i> , 2019 , 163, 114901	12.5	24
53	Development of damage function of acidification for terrestrial ecosystems based on the effect of aluminum toxicity on net primary production. <i>International Journal of Life Cycle Assessment</i> , 2004 , 9, 13-22	4.6	24
52	Overcoming the difficulties in collecting apoplastic fluid from rice leaves by the infiltration-centrifugation method. <i>Plant and Cell Physiology</i> , 2012 , 53, 1659-68	4.9	23
51	A High-Yielding Rice Cultivar "Takanari" Shows No N Constraints on CO Fertilization. <i>Frontiers in Plant Science</i> , 2019 , 10, 361	6.2	20
50	Expanded Damage Function of Stratospheric Ozone Depletion to Cover Major Endpoints Regarding Life Cycle Impact Assessment (12 pp). <i>International Journal of Life Cycle Assessment</i> , 2006 , 11, 150-161	4.6	20
49	Atmospheric Deposition of Reactive Nitrogen on Turf Grassland in Central Japan: Comparison of the Contribution of Wet and Dry Deposition. <i>Water, Air and Soil Pollution</i> , 2007 , 7, 119-129		19
48	A fine-scale phylogenetic analysis of free-living Burkholderia species in sugarcane field soil. <i>Microbes and Environments</i> , 2014 , 29, 434-7	2.6	18
47	Ammonia exchange between rice leaf blades and the atmosphere: Effect of broadcast urea and changes in xylem sap and leaf apoplastic ammonium concentrations. <i>Soil Science and Plant Nutrition</i> , 2008 , 54, 807-818	1.6	18
46	Characterization of leaf blade- and leaf sheath-associated bacterial communities and assessment of their responses to environmental changes in CO ₂ temperature, and nitrogen levels under field conditions. <i>Microbes and Environments</i> , 2015 , 30, 51-62	2.6	17
45	Coupling atmospheric ammonia exchange process over a rice paddy field with a multi-layer atmosphere-soil-vegetation model. <i>Agricultural and Forest Meteorology</i> , 2013 , 180, 1-21	5.8	17
44	Effects of field-applied composted cattle manure and chemical fertilizer on ammonia and particulate ammonium exchanges at an upland field. <i>Atmospheric Environment</i> , 2009 , 43, 5702-5707	5.3	17
43	Validation of the DNDC-Rice model to discover problems in evaluating the nitrogen balance at a paddy-field scale for single-cropping of rice. <i>Nutrient Cycling in Agroecosystems</i> , 2013 , 95, 255-268	3.3	16
42	Insecticide-degrading Burkholderia symbionts of the stinkbug naturally occupy various environments of sugarcane fields in a Southeast island of Japan. <i>Microbes and Environments</i> , 2015 , 30, 29-36	2.6	16
41	Improved Jayaweera-Mikkelsen model to quantify ammonia volatilization from rice paddy fields in China. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 8136-8147	5.1	13
40	Fully automated, high-throughput instrumentation for measuring the $\delta^{13}\text{C}$ value of methane and application of the instrumentation to rice paddy samples. <i>Rapid Communications in Mass Spectrometry</i> , 2014 , 28, 2315-24	2.2	12
39	Reducing nitrogen footprints of consumer-level food loss and protein overconsumption in Japan, considering gender and age differences. <i>Environmental Research Letters</i> , 2018 , 13, 124027	6.2	12

38	Mapping the relative risk of surface water acidification based on cumulative acid deposition over the past 25 years in Japan. <i>Journal of Forest Research</i> , 2016 , 21, 115-124	1.4	11
37	Characteristics of ammonia oxidation potentials and ammonia oxidizers in mineral soil under <i>Salix polaris</i> moss vegetation in Ny-Ålesund, Svalbard. <i>Polar Biology</i> , 2016 , 39, 725-741	2	11
36	Atmosphere-rice paddy exchanges of inorganic particles and relevant gases during a week in winter and a week in summer. <i>J Agricultural Meteorology</i> , 2012 , 68, 55-68	1.1	11
35	Alkalinization and acidification of stream water with changes in atmospheric deposition in a tropical dry evergreen forest of northeastern Thailand. <i>Hydrological Processes</i> , 2017 , 31, 836-846	3.3	9
34	Differences in CO ₂ and N ₂ O emission rates following crop residue incorporation with or without field burning: A case study of adzuki bean residue and wheat straw. <i>Soil Science and Plant Nutrition</i> , 2016 , 62, 52-56	1.6	9
33	Potential of Svalbard reindeer winter droppings for emission/absorption of methane and nitrous oxide during summer. <i>Polar Science</i> , 2014 , 8, 196-206	2.3	9
32	Elevated CO ₂ decreases the Photorespiratory NH ₃ production but does not decrease the NH ₃ compensation point in rice leaves. <i>Plant and Cell Physiology</i> , 2014 , 55, 1582-91	4.9	8
31	Optimal Thermolysis Conditions for Soil Carbon Storage on Plant Residue Burning: Modeling the Trade-Off between Thermal Decomposition and Subsequent Biodegradation. <i>Journal of Environmental Quality</i> , 2015 , 44, 228-35	3.4	8
30	Ammonia exchange on grasslands in an intensive dairying region in central Japan. <i>Soil Science and Plant Nutrition</i> , 2010 , 56, 503-511	1.6	8
29	Amelioration of the reactive nitrogen flux calculation by a day/night separation in weekly mean air concentration measurements. <i>Atmospheric Environment</i> , 2013 , 79, 462-471	5.3	7
28	Potential ammonia emission from flag leaves of paddy rice (<i>Oryza sativa</i> L. cv. Koshihikari). <i>Agriculture, Ecosystems and Environment</i> , 2011 , 144, 117-123	5.7	7
27	Ammonia Emission from a Young Larch Ecosystem Afforested after Clear-Cutting of a Pristine Forest in Northernmost Japan. <i>Water, Air, and Soil Pollution</i> , 2009 , 200, 33-46	2.6	7
26	Effect of volcanic fumes from Mt. Oyama, Miyakejima Island, on atmospheric deposition, soil solution, and soil properties in Kumagaya, central Japan. <i>Soil Science and Plant Nutrition</i> , 2002 , 48, 401-411	1.6	7
25	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	9.3	7
24	Free-air CO ₂ enrichment (FACE) net nitrogen fixation experiment at a paddy soil surface under submerged conditions. <i>Nutrient Cycling in Agroecosystems</i> , 2014 , 98, 57-69	3.3	6
23	Measurement of ammonia volatilization loss using a dynamic chamber technique: A case study of surface-incorporated manure and ammonium sulfate in an upland field of light-colored Andosol. <i>Soil Science and Plant Nutrition</i> , 2009 , 55, 571-581	1.6	6
22	Temporal Trends of Non-sea Salt Sulfate and Nitrate in Wet Deposition in Japan. <i>Water, Air and Soil Pollution</i> , 2007 , 7, 67-75		6
21	Ammonia Oxidation Potentials and Ammonia Oxidizers of Lichen-Moss Vegetated Soils at Two Ice-free Areas in East Antarctica. <i>Microbes and Environments</i> , 2020 , 35,	2.6	5

20	Four-year monitoring of atmospheric ammonia using passive samplers at a single-crop rice paddy field in central Japan. <i>J Agricultural Meteorology</i> , 2013 , 69, 229-241	1.1	5
19	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	9.3	4
18	Temporal Trends of Non-sea Salt Sulfate and Nitrate in Wet Deposition in Japan 2007 , 67-75		4
17	Concealed nitrogen footprint in protein-free foods: an empirical example using oil palm products. <i>Environmental Research Letters</i> , 2020 , 15, 035006	6.2	3
16	Effect of volcanic fumes from Mt. Oyama, Miyakejima Island, on atmospheric deposition, soil solution, and soil properties in Kumagaya, Central Japan. <i>Soil Science and Plant Nutrition</i> , 2003 , 49, 503-511	1.6	3
15	Acid Deposition and Critical Load Map of Tokyo. <i>Water, Air, and Soil Pollution</i> , 2001 , 130, 1211-1216	2.6	3
14	Seabird-affected taluses are denitrification hotspots and potential NO emitters in the High Arctic. <i>Scientific Reports</i> , 2018 , 8, 17261	4.9	3
13	Dissolved Organic Matter Processing in Pristine Antarctic Streams. <i>Environmental Science & Technology</i> , 2021 , 55, 10175-10185	10.3	3
12	Characteristics of Atmosphere-rice Paddy Exchange of Gaseous and Particulate Reactive Nitrogen in Terms of Nitrogen Input to a Single-cropping Rice Paddy Area in Central Japan. <i>Asian Journal of Atmospheric Environment</i> , 2017 , 11, 202-216	1.3	2
11	Atmosphere-forest Exchange of Ammoniacal Nitrogen in a Subalpine Deciduous Forest in Central Japan during a Summer Week. <i>Asian Journal of Atmospheric Environment</i> , 2011 , 5, 134-143	1.3	2
10	Relationships between the High Aluminum Concentration and Other Components in Soil Solution of Acidic Soil in Kumagaya, Central Japan. <i>Soil Science and Plant Nutrition</i> , 2005 , 51, 655-658	1.6	1
9	Nitrogen Aspects of the Free-Air CO ₂ Enrichment (FACE) Study for Paddy Rice Ecosystems 2020 , 331-340		1
8	The INI East Asia Regional Nitrogen Centre: Balancing Food Production and Environment-Nitrogen-Related Research and Management in East Asia 2020 , 481-487		1
7	Fertilizer-derived nitrogen use of two varieties of single-crop paddy rice: a free-air carbon dioxide enrichment study using polymer-coated 15N-labeled urea. <i>Soil Science and Plant Nutrition</i> , 1-12	1.6	1
6	Atmospheric Deposition of Reactive Nitrogen on Turf Grassland in Central Japan: Comparison of the Contribution of Wet and Dry Deposition 2007 , 119-129		1
5	Nitrogen Embedded in Global Food Trade 2019 , 105-109		0
4	Sustainability of Vertical Farming in Comparison with Conventional Farming: A Case Study in Miyagi Prefecture, Japan, on Nitrogen and Phosphorus Footprint. <i>Sustainability</i> , 2022 , 14, 1042	3.6	0
3	Comparison of food supply system in China and Japan based on food nitrogen footprints estimated by a top-down method. <i>Environmental Research Letters</i> , 2021 , 16, 045003	6.2	0

- 2 Current Status of Nitrogen Management Research in East Asia. *Journal of Life Cycle Assessment Japan*, **2018**, 14, 141-145 0.1
- 1 Contrasting Considerations among Agricultural Stakeholders in Japan on Sustainable Nitrogen Management. *Sustainability*, **2021**, 13, 4866 3.6