

Kentaro Hayashi

List of Publications by Year in Descending Order

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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	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
72	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
71	Contrasting Considerations among Agricultural Stakeholders in Japan on Sustainable Nitrogen Management. <i>Sustainability</i> , 2021 , 13, 4866	3.6	
70	Dissolved Organic Matter Processing in Pristine Antarctic Streams. <i>Environmental Science & Technology</i> , 2021 , 55, 10175-10185	10.3	3
69	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
68	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
67	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
66	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
65	Nitrogen Aspects of the Free-Air CO ₂ Enrichment (FACE) Study for Paddy Rice Ecosystems 2020 , 331-340		1
64	The INI East Asia Regional Nitrogen Centre: Balancing Food Production and Environment Nitrogen-Related Research and Management in East Asia 2020 , 481-487		1
63	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
62	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
61	Nitrogen Embedded in Global Food Trade 2019 , 105-109		0
60	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
59	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
58	Current Status of Nitrogen Management Research in East Asia. <i>Journal of Life Cycle Assessment Japan</i> , 2018 , 14, 141-145	0.1	
57	Seabird-affected taluses are denitrification hotspots and potential NO emitters in the High Arctic. <i>Scientific Reports</i> , 2018 , 8, 17261	4.9	3

56	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
55	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
54	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
53	Nitrogen footprints: Regional realities and options to reduce nitrogen loss to the environment. <i>Ambio</i> , 2017 , 46, 129-142	6.5	70
52	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
51	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
50	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
49	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
48	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
47	Elevated atmospheric CO ₂ levels affect community structure of rice root-associated bacteria. <i>Frontiers in Microbiology</i> , 2015 , 6, 136	5.7	26
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	Insecticide-degrading <i>Burkholderia</i> 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
44	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
43	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
42	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
41	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
40	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
39	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

38	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
37	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
36	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
35	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
34	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
33	Canopy-scale relationships between stomatal conductance and photosynthesis in irrigated rice. <i>Global Change Biology</i> , 2013 , 19, 2209-20	11.4	32
32	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
31	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
30	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
29	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
28	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
27	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
26	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
25	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
24	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
23	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
22	Airborne nitrogen load in Japanese and Chinese agroecosystems. <i>Soil Science and Plant Nutrition</i> , 2010 , 56, 2-18	1.6	29
21	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

20	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
19	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
18	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
17	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
16	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
15	Measurement of ammonia volatilization from flooded paddy fields in Vietnam. <i>Soil Science and Plant Nutrition</i> , 2009 , 55, 793-799	1.6	27
14	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
13	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
12	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
11	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
10	Atmospheric Deposition of Reactive Nitrogen on Turf Grassland in Central Japan: Comparison of the Contribution of Wet and Dry Deposition 2007 , 119-129		1
9	Temporal Trends of Non-sea Salt Sulfate and Nitrate in Wet Deposition in Japan 2007 , 67-75		4
8	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
7	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
6	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
5	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
4	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
3	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

2	Acid Deposition and Critical Load Map of Tokyo. <i>Water, Air, and Soil Pollution</i> , 2001 , 130, 1211-1216	2.6	3
1	Fertilizer-derived nitrogen use of two varieties of single-crop paddy rice: a free-air carbon dioxide enrichment study using polymer-coated ¹⁵ N-labeled urea. <i>Soil Science and Plant Nutrition</i> , 1-12	1.6	1