

# Nobuhito Ohte

## List of Publications by Year in descending order

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116  
papers

3,804  
citations

101543

36  
h-index

144013

57  
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118  
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118  
docs citations

118  
times ranked

4167  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of bedrock groundwater discharge on spatial variability of dissolved carbon, nitrogen, and phosphorous concentrations in stream water within a forest headwater catchment. <i>Hydrological Processes</i> , 2021, 35, .	2.6	1
2	In the shadow of the rising sun: a systematic review of Japanese bat research and conservation. <i>Mammal Review</i> , 2021, 51, 109-126.	4.8	8
3	The Kiryu Experimental Watershed: 50 years of rainfall runoff data for a forest catchment in central Japan. <i>Hydrological Processes</i> , 2021, 35, e14104.	2.6	7
4	Life history of <i>Juniperus sabina</i> L. adapted to the sand shifting environment in the Mu Us Sandy Land, China: A review. <i>Landscape and Ecological Engineering</i> , 2021, 17, 281.	1.5	1
5	Effects of changes in canopy interception on stream runoff response and recovery following clear-cutting of a Japanese coniferous forest in Fukuoyamasawa Experimental Watershed in Japan. <i>Hydrological Processes</i> , 2021, 35, e14177.	2.6	7
6	Roosting ecology of endangered plant-roosting bats on Okinawa Island: Implications for bat-friendly forestry practices. <i>Ecology and Evolution</i> , 2021, 11, 13961-13971.	1.9	1
7	Consequences of microbial diversity in forest nitrogen cycling: diverse ammonifiers and specialized ammonia oxidizers. <i>ISME Journal</i> , 2020, 14, 12-25.	9.8	61
8	Distinct Community Composition of Previously Uncharacterized Denitrifying Bacteria and Fungi across Different Land-Use Types. <i>Microbes and Environments</i> , 2020, 35, n/a.	1.6	10
9	Geographic Factors Explain the Variability of Atmospheric Deposition of Sulfur and Nitrogen onto Coniferous Forests Within and Beyond the Tokyo Metropolis. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	3
10	Dissimilatory Nitrate Reduction to Ammonium and Responsible Microbes in Japanese Rice Paddy Soil. <i>Microbes and Environments</i> , 2020, 35, n/a.	1.6	10
11	Comparison of nitrate export patterns in forested catchments in Japan and the Northeastern United States: A meta-analysis. <i>Hydrological Processes</i> , 2019, 33, 3184-3194.	2.6	3
12	Contrasting Patterns in the Decrease of Spatial Variability With Increasing Catchment Area Between Stream Discharge and Water Chemistry. <i>Water Resources Research</i> , 2019, 55, 7419-7435.	4.2	9
13	The effects of canopy alteration-induced atmospheric deposition changes on stream chemistry in Japanese cedar forest. <i>Forest Ecology and Management</i> , 2019, 448, 85-93.	3.2	7
14	Unprocessed Atmospheric Nitrate in Waters of the Northern Forest Region in the U.S. and Canada. <i>Environmental Science &amp; Technology</i> , 2019, 53, 3620-3633.	10.0	34
15	The Spatial Distribution of Radiocesium Over a Four-Year Period in a Forest Ecosystem in North Fukushima After the Nuclear Power Station Accident. , 2019, , 141-152.		1
16	Studying <sup>137</sup> Cs dynamics during litter decomposition in three forest types in the vicinity of Fukushima Dai-ichi Nuclear Power Plant. <i>Journal of Forest Research</i> , 2018, 23, 85-90.	1.4	1
17	The International Long-Term Ecological Research "East Asia-Pacific Regional Network (ILTER-EAP): history, development, and perspectives. <i>Ecological Research</i> , 2018, 33, 19-34.	1.5	20
18	Hydro-biogeochemical Processes of a Riparian Wetland and Their Effects on Surface Water Quality in a Forested Catchment. <i>Suimon Mizu Shigen Gakkaishi</i> , 2018, 31, 178-189.	0.1	1

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19	A water acquisition strategy may regulate the biomass and distribution of winter forage species in cold Asian rangeland. <i>Ecosphere</i> , 2018, 9, e02511.	2.2	2
20	Stream Runoff and Nitrate Recovery Times After Forest Disturbance in the USA and Japan. <i>Water Resources Research</i> , 2018, 54, 6042-6054.	4.2	14
21	Using food network unfolding to evaluate food web complexity in terms of biodiversity: theory and applications. <i>Ecology Letters</i> , 2018, 21, 1065-1074.	6.4	12
22	Effects of litter feeders on the transfer of <sup>137</sup> Cs to plants. <i>Scientific Reports</i> , 2018, 8, 6691.	3.3	2
23	Recent Topics of Hillslope Hydrology and Related Research Fields in Forested Catchments. <i>Suimon Mizu Shigen Gakkaishi</i> , 2018, 31, 487-499.	0.1	1
24	Estimation of field soil nitrogen mineralization and nitrification rates using soil N transformation parameters obtained through laboratory incubation. <i>Ecological Research</i> , 2017, 32, 279-285.	1.5	3
25	Spatial variations in the molecular diversity of dissolved organic matter in water moving through a boreal forest in eastern Finland. <i>Scientific Reports</i> , 2017, 7, 42102.	3.3	24
26	Influence of bedrock groundwater on streamflow characteristics in a volcanic catchment. <i>Hydrological Processes</i> , 2016, 30, 558-572.	2.6	12
27	Quantifying aggregation and change in runoff source in accordance with catchment area increase in a forested headwater catchment. <i>Hydrological Processes</i> , 2016, 30, 4125-4138.	2.6	13
28	<sup>137</sup> Cs distributions in soil and trees in forest ecosystems after the radioactive fallout – Comparison study between southern Finland and Fukushima, Japan. <i>Journal of Environmental Radioactivity</i> , 2016, 161, 73-81.	1.7	17
29	Terrestrial-aquatic linkage in stream food webs along a forest chronosequence: multi-isotopic evidence. <i>Ecology</i> , 2016, 97, 1146-1158.	3.2	19
30	Factors contributing to soil nitrogen mineralization and nitrification rates of forest soils in the Japanese archipelago. <i>Forest Ecology and Management</i> , 2016, 361, 382-396.	3.2	71
31	Role of natural organic matter on iodine and <sup>239,240</sup> Pu distribution and mobility in environmental samples from the northwestern Fukushima Prefecture, Japan. <i>Journal of Environmental Radioactivity</i> , 2016, 153, 156-166.	1.7	46
32	Ecosystem Monitoring of Radiocesium Redistribution Dynamics in a Forested Catchment in Fukushima After the Nuclear Power Plant Accident in March 2011. , 2016, , 175-188.		7
33	Movements and storages of radiocesium in a forest ecosystem in Fukushima. <i>Atomos</i> , 2016, 58, 589-593.	0.0	0
34	Estimation of radioactive <sup>137</sup> -cesium transportation by litterfall, stemflow and throughfall in the forests of Fukushima. <i>Journal of Environmental Radioactivity</i> , 2015, 149, 176-185.	1.7	61
35	Differences in hydrophyte life forms induce spatial heterogeneity of CH <sub>4</sub> production and its carbon isotopic signature in a temperate bog peatland. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 1177-1195.	3.0	3
36	Microbial regulation of nitrogen dynamics along the hillslope of a natural forest. <i>Frontiers in Environmental Science</i> , 2015, 2, .	3.3	27

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37	Biogeochemical nitrogen properties of forest soils in the Japanese archipelago. <i>Ecological Research</i> , 2015, 30, 1-2.	1.5	44
38	Higher diversity and abundance of denitrifying microorganisms in environments than considered previously. <i>ISME Journal</i> , 2015, 9, 1954-1965.	9.8	182
39	Development of PCR primers targeting fungal nirK to study fungal denitrification in the environment. <i>Soil Biology and Biochemistry</i> , 2015, 81, 282-286.	8.8	46
40	Ecosystem Monitoring of Radiocesium Dynamics in a Forested Ecosystem in Fukushima after the Nuclear Power Plant Accident. <i>Trends in the Sciences</i> , 2015, 20, 10_16-10_27.	0.0	0
41	Ecological Perspectives on Microbes Involved in N-Cycling. <i>Microbes and Environments</i> , 2014, 29, 4-16.	1.6	111
42	The nitrogen cycle in cryoconites: naturally occurring nitrification and denitrification granules on a glacier. <i>Environmental Microbiology</i> , 2014, 16, 3250-3262.	3.8	72
43	N <sub>2</sub> O emission from cropland field soil through fungal denitrification after surface applications of organic fertilizer. <i>Soil Biology and Biochemistry</i> , 2014, 69, 157-167.	8.8	97
44	Seasonal changes and controlling factors of gross N transformation in an evergreen plantation forest in central Japan. <i>Journal of Forest Research</i> , 2014, 19, 77-85.	1.4	7
45	Merging perspectives in the catchment sciences: the US-Japan Joint Seminar on catchment hydrology and forest biogeochemistry. <i>Hydrological Processes</i> , 2014, 28, 2878-2880.	2.6	1
46	Nitrate isotopic composition reveals nitrogen deposition and transformation dynamics along the canopy-soil continuum of a suburban forest in Japan. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 2539-2549.	1.5	20
47	Biological proliferation of cesium-137 through the detrital food chain in a forest ecosystem in Japan. <i>Scientific Reports</i> , 2014, 4, 3599.	3.3	81
48	Relevant study subjects on nitrogen dynamics and cycles in forested catchment and expected strategies. <i>Journal of Japanese Association of Hydrological Sciences</i> , 2014, 44, 135-145.	0.2	0
49	Tracing sources and pathways of dissolved nitrate in forest and river ecosystems using high-resolution isotopic techniques: a review. <i>Ecological Research</i> , 2013, 28, 749-757.	1.5	22
50	Nitrogen availability in the taiga forest ecosystem of northeastern Siberia. <i>Soil Science and Plant Nutrition</i> , 2013, 59, 427-441.	1.9	10
51	Relationship between catchment scale and the spatial variability of stream discharge and chemistry in a catchment with multiple geologies. <i>Hydrological Research Letters</i> , 2013, 7, 12-17.	0.5	10
52	Diffusion and Transportation Dynamics of <sup>137</sup> Cs Deposited on the Forested Area in Fukushima After the Fukushima Daiichi Nuclear Power Plant Accident in March 2011. , 2013, , 177-186.		9
53	Implications of seasonal variation in nitrate export from forested ecosystems: a review from the hydrological perspective of ecosystem dynamics. <i>Ecological Research</i> , 2012, 27, 657-665.	1.5	18
54	Nematomorph parasites indirectly alter the food web and ecosystem function of streams through behavioural manipulation of their cricket hosts. <i>Ecology Letters</i> , 2012, 15, 786-793.	6.4	113

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55	Importance of frequent storm flow data for evaluating changes in stream water chemistry following clear-cutting in Japanese headwater catchments. <i>Forest Ecology and Management</i> , 2011, 262, 1305-1317.	3.2	12
56	Evaluation of wastewater nitrogen transformation in a natural wetland (Ulaanbaatar, Mongolia) using dual-isotope analysis of nitrate. <i>Science of the Total Environment</i> , 2011, 409, 1530-1538.	8.0	32
57	Effects of hillslope topography on runoff response in a small catchment in the Fudoji Experimental Watershed, central Japan. <i>Hydrological Processes</i> , 2011, 25, 1874-1886.	2.6	18
58	Hydrology and Biogeochemistry of Temperate Forests. <i>Ecological Studies</i> , 2011, , 261-283.	1.2	9
59	Seasonal Patterns of Nitrate Discharge from Forested Catchments: Information Derived from Japanese Case Studies. <i>Geography Compass</i> , 2010, 4, 1358-1376.	2.7	14
60	Hydrological influences on spatiotemporal variations of $\delta^{15}\text{N}$ and $\delta^{18}\text{O}$ of nitrate in a forested headwater catchment in central Japan: Denitrification plays a critical role in groundwater. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	44
61	Spatial distribution of nitrate sources of rivers in the Lake Biwa watershed, Japan: Controlling factors revealed by nitrogen and oxygen isotope values. <i>Water Resources Research</i> , 2010, 46, .	4.2	55
62	Methane flux characteristics in forest soils under an East Asian monsoon climate. <i>Soil Biology and Biochemistry</i> , 2009, 41, 388-395.	8.8	37
63	Biomass allocation and nitrogen limitation in a <i>Cryptomeria japonica</i> plantation chronosequence. <i>Journal of Forest Research</i> , 2009, 14, 276-285.	1.4	16
64	Biogeochemistry of nitrous oxide in groundwater in a forested ecosystem elucidated by nitrous oxide isotopomer measurements. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 3115-3133.	3.9	92
65	Elucidation of the relationship between geographic and time sources of stream water using a tracer approach in a headwater catchment. <i>Water Resources Research</i> , 2009, 45, .	4.2	35
66	Denitrification Activity and Relevant Bacteria Revealed by Nitrite Reductase Gene Fragments in Soil of Temperate Mixed Forest. <i>Microbes and Environments</i> , 2009, 24, 76.	1.6	1
67	Hydrological control of dissolved organic carbon dynamics in a forested headwater catchment, Kiryu Experimental Watershed, Japan. <i>Hydrological Processes</i> , 2008, 22, 429-442.	2.6	9
68	Carbon isotope fractionation of dissolved inorganic carbon (DIC) due to outgassing of carbon dioxide from a headwater stream. <i>Hydrological Processes</i> , 2008, 22, 2410-2423.	2.6	214
69	Effects of hillslope topography on hydrological responses in a weathered granite mountain, Japan: comparison of the runoff response between the valley-head and the side slope. <i>Hydrological Processes</i> , 2008, 22, 2581-2594.	2.6	43
70	Analysis of methane production pathways in a riparian wetland of a temperate forest catchment, using $\delta^{13}\text{C}$ of pore water $\text{CH}_4$ and $\text{CO}_2$ . <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	14
71	Sources, transformations, and hydrological processes that control stream nitrate and dissolved organic matter concentrations during snowmelt in an upland forest. <i>Water Resources Research</i> , 2008, 44, .	4.2	155
72	Denitrification Activity and Relevant Bacteria Revealed by Nitrite Reductase Gene Fragments in Soil of Temperate Mixed Forest. <i>Microbes and Environments</i> , 2008, 23, 337-345.	1.6	52

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73	Impacts of Hydrological Characteristics on Water Quality of Semiarid River in California. Suimon Mizu Shigen Gakkaishi, 2008, 21, 57-63.	0.1	0
74	Sources and transport of algae and nutrients in a Californian river in a semi-arid climate. Freshwater Biology, 2007, 52, 2476-2493.	2.4	19
75	Hydrologic effects on methane dynamics in riparian wetlands in a temperate forest catchment. Journal of Geophysical Research, 2007, 112, .	3.3	23
76	Estimation of mean residence times of subsurface waters using seasonal variation in deuterium excess in a small headwater catchment in Japan. Hydrological Processes, 2007, 21, 308-322.	2.6	70
77	Hydrologic controls on nitrous oxide production and consumption in a forested headwater catchment in central Japan. Journal of Geophysical Research, 2006, 111, .	3.3	23
78	Necessity to consider hydrological controls of biogeochemical cycling when developing a catchment-scale ecosystem model. Japanese Journal of Limnology, 2006, 67, 259-266.	0.1	6
79	Biogeochemical model in forest ecosystem; Application and problem of PnET model. Japanese Journal of Limnology, 2006, 67, 235-244.	0.1	5
80	Biogeochemical and hydrological controls on carbon export from a forested catchment in central Japan. Ecological Research, 2005, 20, 347-358.	1.5	27
81	Biogeochemical and hydrological controls on carbon export from a forested catchment in central Japan. , 2005, , 113-124.		1
82	Three years of carbon and energy fluxes from Japanese evergreen broad-leaved forest. Agricultural and Forest Meteorology, 2005, 132, 329-343.	4.8	42
83	Effects of bedrock permeability on hillslope and riparian groundwater dynamics in a weathered granite catchment. Water Resources Research, 2005, 41, .	4.2	92
84	Temporal and spatial variability of Methane flux in a temperate forest watershed. Suimon Mizu Shigen Gakkaishi, 2005, 18, 244-256.	0.1	11
85	Sources of weathering-derived solutes in two granitic catchments with contrasting forest growth. Hydrological Processes, 2004, 18, 651-666.	2.6	21
86	Changes in biogeochemical cycling following forest defoliation by pine wilt disease in Kiryu experimental catchment in Japan. Hydrological Processes, 2004, 18, 2727-2736.	2.6	26
87	Colored Moisture Analysis Estimates of Variations in 1998 Asian Monsoon Water Sources. Journal of the Meteorological Society of Japan, 2004, 82, 1315-1329.	1.8	87
88	Episodic increases in nitrate concentrations in streamwater due to the partial dieback of a pine forest in Japan: runoff generation processes control seasonality. Hydrological Processes, 2003, 17, 237-249.	2.6	54
89	Analysis of flowpath dynamics in a steep unchannelled hollow in the Tanakami Mountains of Japan. Hydrological Processes, 2003, 17, 417-430.	2.6	49
90	Interactive Responses of dissolved sulfate and nitrate to disturbance associated with pine wilt disease in a temperate forest. Soil Science and Plant Nutrition, 2003, 49, 539-550.	1.9	7

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91	Hydrologic and geochemical influences on the dissolved silica concentration in natural water in a steep headwater catchment. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 1973-1989.	3.9	64
92	WATER UTILIZATION OF NATURAL AND PLANTED TREES IN THE SEMIARID DESERT OF INNER MONGOLIA, CHINA. , 2003, 13, 337-351.		75
93	Seepage area and rate of bedrock groundwater discharge at a granitic unchanneled hillslope. <i>Water Resources Research</i> , 2003, 39, .	4.2	113
94	Residence times and flow paths of water in steep unchannelled catchments, Tanakami, Japan. <i>Journal of Hydrology</i> , 2002, 261, 173-192.	5.4	175
95	Determining the sources of stormflow from the fluorescence properties of dissolved organic carbon in a forested headwater catchment. <i>Journal of Hydrology</i> , 2002, 268, 192-202.	5.4	60
96	Observations of Energy Fluxes and Evapotranspiration over Terrestrial Complex Land Covers in the Tropical Monsoon Environment. <i>Journal of the Meteorological Society of Japan</i> , 2002, 80, 465-484.	1.8	38
97	Effects of the Ground Cover Conditions on Horizontal Profiles of Chloride Concentration, Oxygen and Hydrogen Stable Isotope Ratios of Groundwater in Mu Us Desert, China.. <i>Suimon Mizu Shigen Gakkaishi</i> , 2002, 15, 13-22.	0.1	2
98	The dynamics of DOC in the hydrological process in a forested watershed.. <i>Japanese Journal of Limnology</i> , 2002, 63, 31-45.	0.1	12
99	Mechanism of nitrate loss from a forested catchment following a small-scale, natural disturbance. <i>Canadian Journal of Forest Research</i> , 2001, 31, 1326-1335.	1.7	51
100	Evolution of groundwater and streamwater chemistry of vegetated catchments. <i>Journal of Groundwater Hydrology</i> , 2001, 43, 201-213.	0.1	3
101	A three-component end-member analysis of streamwater hydrochemistry in a small Japanese forested headwater catchment. <i>Hydrological Processes</i> , 2001, 15, 249-260.	2.6	79
102	Hydrology and biogeochemistry of forested catchments. <i>Hydrological Processes</i> , 2001, 15, 1673-1674.	2.6	19
103	Title is missing!. <i>Plant and Soil</i> , 2001, 234, 195-205.	3.7	44
104	Title is missing!. <i>Water, Air, and Soil Pollution</i> , 2001, 130, 649-654.	2.4	71
105	Hydrobiogeochemistry of forest ecosystems in Japan: major themes and research issues. <i>Hydrological Processes</i> , 2001, 15, 1771-1789.	2.6	42
106	Plant species effect on the spatial patterns of soil properties in the Mu-us desert ecosystem, Inner Mongolia, China. , 2001, 234, 195.		1
107	Contribution of Bedrock Groundwater on Perennial Spring at a Forested Headwater Catchment. <i>Journal of Japanese Association of Hydrological Sciences</i> , 2001, 31, 2_59-2_72.	0.2	1
108	Sediment yield on a devastated hill in southern China: effects of microbiotic crust on surface erosion process. <i>Geomorphology</i> , 2000, 32, 129-145.	2.6	23

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109	Effects of the Differences of Hydrological Processes on the Streamwater Chemistry.. Suimon Mizu Shigen Gakkaishi, 2000, 13, 227-239.	0.1	8
110	Geographical variation of the acid buffering of vegetated catchments: Factors determining the bicarbonate leaching. Global Biogeochemical Cycles, 1999, 13, 969-996.	4.9	31
111	Comparison of the pH Determining Factor of the Streamwater in World Forest Watershed. , 1997, , 105-120.		0
112	An in situ lysimeter experiment on soil moisture influence on inorganic nitrogen discharge from forest soil. Journal of Hydrology, 1997, 195, 78-98.	5.4	28
113	Spatial Variation on Acid Buffering Mechanism in Forest Catchment: Vertical Distribution of The Buffering Process in The Weathered Granitic Catchment.. Suimon Mizu Shigen Gakkaishi, 1997, 10, 463-476.	0.1	5
114	The Influence of Pipe Flow on Slope Stability.. Suimon Mizu Shigen Gakkaishi, 1996, 9, 330-339.	0.1	8
115	Biogeochemical Influences on the Determination of Water Chemistry in a Temperate Forest Basin: Factors Determining the p H value. Water Resources Research, 1995, 31, 2823-2834.	4.2	71
116	Redistribution of the soil <sup>137</sup> Cs inventory through litter and sediment transport on a hillslope covered by deciduous forest in Fukushima, Japan. Earth Surface Processes and Landforms, 0, ,	2.5	3