Nobuhito Ohte

List of Publications by Year
in descending order

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116	3,804	101384	143772
papers	citations	36 h-index	57 g-index

118	118	118	4167
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Carbon isotope fractionation of dissolved inorganic carbon (DIC) due to outgassing of carbon dioxide from a headwater stream. Hydrological Processes, 2008, 22, 2410-2423.	1.1	214
2	Higher diversity and abundance of denitrifying microorganisms in environments than considered previously. ISME Journal, 2015, 9, 1954-1965.	4.4	182
3	Residence times and flow paths of water in steep unchannelled catchments, Tanakami, Japan. Journal of Hydrology, 2002, 261, 173-192.	2.3	175
4	Sources, transformations, and hydrological processes that control stream nitrate and dissolved organic matter concentrations during snowmelt in an upland forest. Water Resources Research, 2008, 44, .	1.7	155
5	Seepage area and rate of bedrock groundwater discharge at a granitic unchanneled hillslope. Water Resources Research, 2003, 39, .	1.7	113
6	Nematomorph parasites indirectly alter the food web and ecosystem function of streams through behavioural manipulation of their cricket hosts. Ecology Letters, 2012, 15, 786-793.	3.0	113
7	Ecological Perspectives on Microbes Involved in N-Cycling. Microbes and Environments, 2014, 29, 4-16.	0.7	111
8	N2O emission from cropland field soil through fungal denitrification after surface applications of organic fertilizer. Soil Biology and Biochemistry, 2014, 69, 157-167.	4.2	97
9	Effects of bedrock permeability on hillslope and riparian groundwater dynamics in a weathered granite catchment. Water Resources Research, 2005, 41, .	1.7	92
10	Biogeochemistry of nitrous oxide in groundwater in a forested ecosystem elucidated by nitrous oxide isotopomer measurements. Geochimica Et Cosmochimica Acta, 2009, 73, 3115-3133.	1.6	92
11	Colored Moisture Analysis Estimates of Variations in 1998 Asian Monsoon Water Sources. Journal of the Meteorological Society of Japan, 2004, 82, 1315-1329.	0.7	87
12	Biological proliferation of cesium-137 through the detrital food chain in a forest ecosystem in Japan. Scientific Reports, 2014, 4, 3599.	1.6	81
13	A three-component end-member analysis of streamwater hydrochemistry in a small Japanese forested headwater catchment. Hydrological Processes, 2001, 15, 249-260.	1.1	79
14	WATER UTILIZATION OF NATURAL AND PLANTED TREES IN THE SEMIARID DESERT OF INNER MONGOLIA, CHINA. , 2003, 13, 337-351.		75
15	The nitrogen cycle in cryoconites: naturally occurring nitrificationâ€denitrification granules on a glacier. Environmental Microbiology, 2014, 16, 3250-3262.	1.8	72
16	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.	1.7	71
17	Title is missing!. Water, Air, and Soil Pollution, 2001, 130, 649-654.	1.1	71
18	Factors contributing to soil nitrogen mineralization and nitrification rates of forest soils in the Japanese archipelago. Forest Ecology and Management, 2016, 361, 382-396.	1.4	71

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19	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.	1.1	70
20	Hydrologic and geochemical influences on the dissolved silica concentration in natural water in a steep headwater catchment. Geochimica Et Cosmochimica Acta, 2003, 67, 1973-1989.	1.6	64
21	Estimation of radioactive 137-cesium transportation by litterfall, stemflow and throughfall in the forests of Fukushima. Journal of Environmental Radioactivity, 2015, 149, 176-185.	0.9	61
22	Consequences of microbial diversity in forest nitrogen cycling: diverse ammonifiers and specialized ammonia oxidizers. ISME Journal, 2020, 14, 12-25.	4.4	61
23	Determining the sources of stormflow from the fluorescence properties of dissolved organic carbon in a forested headwater catchment. Journal of Hydrology, 2002, 268, 192-202.	2.3	60
24	Spatial distribution of nitrate sources of rivers in the Lake Biwa watershed, Japan: Controlling factors revealed by nitrogen and oxygen isotope values. Water Resources Research, 2010, 46, .	1.7	55
25	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.	1.1	54
26	Denitrification Activity and Relevant Bacteria Revealed by Nitrite Reductase Gene Fragments in Soil of Temperate Mixed Forest. Microbes and Environments, 2008, 23, 337-345.	0.7	52
27	Mechanism of nitrate loss from a forested catchment following a small-scale, natural disturbance. Canadian Journal of Forest Research, 2001, 31, 1326-1335.	0.8	51
28	Analysis of flowpath dynamics in a steep unchannelled hollow in the Tanakami Mountains of Japan. Hydrological Processes, 2003, 17, 417-430.	1.1	49
29	Development of PCR primers targeting fungal nirK to study fungal denitrification in the environment. Soil Biology and Biochemistry, 2015, 81, 282-286.	4.2	46
30	Role of natural organic matter on iodine and 239,240Pu distribution and mobility in environmental samples from the northwestern Fukushima Prefecture, Japan. Journal of Environmental Radioactivity, 2016, 153, 156-166.	0.9	46
31	Title is missing!. Plant and Soil, 2001, 234, 195-205.	1.8	44
32	Hydrological influences on spatiotemporal variations of Î´¹⁵N and Î´¹⁸O of nitrate in a forested headwater catchment in central Japan: Denitrification plays a critical role in groundwater. Journal of Geophysical Research, 2010, 115, .	3.3	44
33	Biogeochemical nitrogen properties of forest soils in the Japanese archipelago. Ecological Research, 2015, 30, 1-2.	0.7	44
34	Effects of hillslope topography on hydrological responses in a weathered granite mountain, Japan: comparison of the runoff response between the valleyâ€head and the side slope. Hydrological Processes, 2008, 22, 2581-2594.	1.1	43
35	Hydrobiogeochemistry of forest ecosystems in Japan: major themes and research issues. Hydrological Processes, 2001, 15, 1771-1789.	1.1	42
36	Three years of carbon and energy fluxes from Japanese evergreen broad-leaved forest. Agricultural and Forest Meteorology, 2005, 132, 329-343.	1.9	42

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37	Observations of Energy Fluxes and Evapotranspiration over Terrestrial Complex Land Covers in the Tropical Monsoon Environment. Journal of the Meteorological Society of Japan, 2002, 80, 465-484.	0.7	38
38	Methane flux characteristics in forest soils under an East Asian monsoon climate. Soil Biology and Biochemistry, 2009, 41, 388-395.	4.2	37
39	Elucidation of the relationship between geographic and time sources of stream water using a tracer approach in a headwater catchment. Water Resources Research, 2009, 45, .	1.7	35
40	Unprocessed Atmospheric Nitrate in Waters of the Northern Forest Region in the U.S. and Canada. Environmental Science & Technology, 2019, 53, 3620-3633.	4.6	34
41	Evaluation of wastewater nitrogen transformation in a natural wetland (Ulaanbaatar, Mongolia) using dual-isotope analysis of nitrate. Science of the Total Environment, 2011, 409, 1530-1538.	3.9	32
42	Geographical variation of the acid buffering of vegetated catchments: Factors determining the bicarbonate leaching. Global Biogeochemical Cycles, 1999, 13, 969-996.	1.9	31
43	An in situ lysimeter experiment on soil moisture influence on inorganic nitrogen discharge from forest soil. Journal of Hydrology, 1997, 195, 78-98.	2.3	28
44	Biogeochemical and hydrological controls on carbon export from a forested catchment in central Japan. Ecological Research, 2005, 20, 347-358.	0.7	27
45	Microbial regulation of nitrogen dynamics along the hillslope of a natural forest. Frontiers in Environmental Science, 2015, 2, .	1.5	27
46	Changes in biogeochemical cycling following forest defoliation by pine wilt disease in Kiryu experimental catchment in Japan. Hydrological Processes, 2004, 18, 2727-2736.	1.1	26
47	Spatial variations in the molecular diversity of dissolved organic matter in water moving through a boreal forest in eastern Finland. Scientific Reports, 2017, 7, 42102.	1.6	24
48	Sediment yield on a devastated hill in southern China: effects of microbiotic crust on surface erosion process. Geomorphology, 2000, 32, 129-145.	1.1	23
49	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
50	Hydrologic effects on methane dynamics in riparian wetlands in a temperate forest catchment. Journal of Geophysical Research, 2007, 112, .	3.3	23
51	Tracing sources and pathways of dissolved nitrate in forest and river ecosystems using highâ€resolution isotopic techniques: a review. Ecological Research, 2013, 28, 749-757.	0.7	22
52	Sources of weathering-derived solutes in two granitic catchments with contrasting forest growth. Hydrological Processes, 2004, 18, 651-666.	1.1	21
53	Nitrate isotopic composition reveals nitrogen deposition and transformation dynamics along the canopyâ€“soil continuum of a suburban forest in Japan. Rapid Communications in Mass Spectrometry, 2014, 28, 2539-2549.	0.7	20
54	The International Longâ€Term Ecological Researchâ€“East Asiaâ€“Pacific Regional Network (ILTERâ€EAP): history, development, and perspectives. Ecological Research, 2018, 33, 19-34.	0.7	20

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55	Hydrology and biogeochemistry of forested catchments. Hydrological Processes, 2001, 15, 1673-1674.	1.1	19
56	Sources and transport of algae and nutrients inÂa Californian river in a semi-arid climate. Freshwater Biology, 2007, 52, 2476-2493.	1.2	19
57	Terrestrialâ€aquatic linkage in stream food webs along a forest chronosequence: multiâ€isotopic evidence. Ecology, 2016, 97, 1146-1158.	1.5	19
58	Effects of hillslope topography on runoff response in a small catchment in the Fudoji Experimental Watershed, central Japan. Hydrological Processes, 2011, 25, 1874-1886.	1.1	18
59	Implications of seasonal variation in nitrate export from forested ecosystems: a review from the hydrological perspective of ecosystem dynamics. Ecological Research, 2012, 27, 657-665.	0.7	18
60	137Cs distributions in soil and trees in forest ecosystems after the radioactive fallout â€“ Comparison study between southern Finland and Fukushima, Japan. Journal of Environmental Radioactivity, 2016, 161, 73-81.	0.9	17
61	Biomass allocation and nitrogen limitation in aCryptomeria japonicaplantation chronosequence. Journal of Forest Research, 2009, 14, 276-285.	0.7	16
62	Analysis of methane production pathways in a riparian wetland of a temperate forest catchment, using Î´¹³C of pore water CH₄ and CO₂. Journal of Geophysical Research, 2008, 113, .	3.3	14
63	Seasonal Patterns of Nitrate Discharge from Forested Catchments: Information Derived from Japanese Case Studies. Geography Compass, 2010, 4, 1358-1376.	1.5	14
64	Stream Runoff and Nitrate Recovery Times After Forest Disturbance in the USA and Japan. Water Resources Research, 2018, 54, 6042-6054.	1.7	14
65	Quantifying aggregation and change in runoff source in accordance with catchment area increase in a forested headwater catchment. Hydrological Processes, 2016, 30, 4125-4138.	1.1	13
66	Importance of frequent storm flow data for evaluating changes in stream water chemistry following clear-cutting in Japanese headwater catchments. Forest Ecology and Management, 2011, 262, 1305-1317.	1.4	12
67	Influence of bedrock groundwater on streamflow characteristics in a volcanic catchment. Hydrological Processes, 2016, 30, 558-572.	1.1	12
68	Using food network unfolding to evaluate foodâ€“web complexity in terms of biodiversity: theory and applications. Ecology Letters, 2018, 21, 1065-1074.	3.0	12
69	The dynamics of DOC in the hydrological process in a forested watershed.. Japanese Journal of Limnology, 2002, 63, 31-45.	0.1	12
70	Temporal and spatial variability of Methane flux in a temperate forest watershed. Suimon Mizu Shigen Gakkaishi, 2005, 18, 244-256.	0.1	11
71	Nitrogen availability in the taiga forest ecosystem of northeastern Siberia. Soil Science and Plant Nutrition, 2013, 59, 427-441.	0.8	10
72	Relationship between catchment scale and the spatial variability of stream discharge and chemistry in a catchment with multiple geologies. Hydrological Research Letters, 2013, 7, 12-17.	0.3	10

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73	Distinct Community Composition of Previously Uncharacterized Denitrifying Bacteria and Fungi across Different Land-Use Types. Microbes and Environments, 2020, 35, n/a.	0.7	10
74	Dissimilatory Nitrate Reduction to Ammonium and Responsible Microbes in Japanese Rice Paddy Soil. Microbes and Environments, 2020, 35, n/a.	0.7	10
75	Hydrological control of dissolved organic carbon dynamics in a forested headwater catchment, Kiryu Experimental Watershed, Japan. Hydrological Processes, 2008, 22, 429-442.	1.1	9
76	Contrasting Patterns in the Decrease of Spatial Variability With Increasing Catchment Area Between Stream Discharge and Water Chemistry. Water Resources Research, 2019, 55, 7419-7435.	1.7	9
77	Diffusion and Transportation Dynamics of 137Cs Deposited on the Forested Area in Fukushima After the Fukushima Daiichi Nuclear Power Plant Accident in March 2011. , 2013, , 177-186.		9
78	Hydrology and Biogeochemistry of Temperate Forests. Ecological Studies, 2011, , 261-283.	0.4	9
79	In the shadow of the rising sun: a systematic review of Japanese bat research and conservation. Mammal Review, 2021, 51, 109-126.	2.2	8
80	Effects of the Differences of Hydrological Processes on the Streamwater Chemistry.. Suimon Mizu Shigen Gakkaishi, 2000, 13, 227-239.	0.1	8
81	The Influence of Pipe Flow on Slope Stability.. Suimon Mizu Shigen Gakkaishi, 1996, 9, 330-339.	0.1	8
82	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.	0.8	7
83	Seasonal changes and controlling factors of gross N transformation in an evergreen plantation forest in central Japan. Journal of Forest Research, 2014, 19, 77-85.	0.7	7
84	The effects of canopy alterationâ€“induced atmospheric deposition changes on stream chemistry in Japanese cedar forest. Forest Ecology and Management, 2019, 448, 85-93.	1.4	7
85	The Kiryu Experimental Watershed: 50â€years of rainfallâ€runoff data for a forest catchment in central Japan. Hydrological Processes, 2021, 35, e14104.	1.1	7
86	Effects of changes in canopy interception on stream runoff response and recovery following clearâ€cutting of a Japanese coniferous forest in Fukuroyamasawa Experimental Watershed in Japan. Hydrological Processes, 2021, 35, e14177.	1.1	7
87	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
88	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
89	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
90	Biogeochemical model in forest ecosystem; Application and problem of PnET model. Japanese Journal of Limnology, 2006, 67, 235-244.	0.1	5

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91	Evolution of groundwater and streamwater chemistry of vegetated catchments. Journal of Groundwater Hydrology, 2001, 43, 201-213.	0.1	3
92	Differences in hydrophyte life forms induce spatial heterogeneity of CH₄ production and its carbon isotopic signature in a temperate bog peatland. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 1177-1195.	1.3	3
93	Estimation of field soil nitrogen mineralization and nitrification rates using soil N transformation parameters obtained through laboratory incubation. Ecological Research, 2017, 32, 279-285.	0.7	3
94	Comparison of nitrate export patterns in forested catchments in Japan and the Northeastern United States: A metaâ€analysis. Hydrological Processes, 2019, 33, 3184-3194.	1.1	3
95	Geographic Factors Explain the Variability of Atmospheric Deposition of Sulfur and Nitrogen onto Coniferous Forests Within and Beyond the Tokyo Metropolis. Water, Air, and Soil Pollution, 2020, 231, 1.	1.1	3
96	Redistribution of the soil ¹³⁷ Cs inventory through litter and sediment transport on a hillslope covered by deciduous forest in Fukushima, Japan. Earth Surface Processes and Landforms, 0, , .	1.2	3
97	A water acquisition strategy may regulate the biomass and distribution of winter forage species in cold Asian rangeland. Ecosphere, 2018, 9, e02511.	1.0	2
98	Effects of litter feeders on the transfer of 137Cs to plants. Scientific Reports, 2018, 8, 6691.	1.6	2
99	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.. Suimon Mizu Shigen Gakkaishi, 2002, 15, 13-22.	0.1	2
100	Biogeochemical and hydrological controls on carbon export from a forested catchment in central Japan. , 2005, , 113-124.		1
101	Denitrification Activity and Relevant Bacteria Revealed by Nitrite Reductase Gene Fragments in Soil of Temperate Mixed Forest. Microbes and Environments, 2009, 24, 76.	0.7	1
102	Merging perspectives in the catchment sciences: the US-Japan Joint Seminar on catchment hydrology and forest biogeochemistry. Hydrological Processes, 2014, 28, 2878-2880.	1.1	1
103	Studying 137Cs dynamics during litter decomposition in three forest types in the vicinity of Fukushima Dai-ichi Nuclear Power Plant. Journal of Forest Research, 2018, 23, 85-90.	0.7	1
104	Hydro-biogeochemical Processes of a Riparian Wetland and Their Effects on Surface Water Quality in a Forested Catchment. Suimon Mizu Shigen Gakkaishi, 2018, 31, 178-189.	0.1	1
105	Effects of bedrock groundwater discharge on spatial variability of dissolved carbon, nitrogen, and phosphorous concentrations in stream water within a forest headwater catchment. Hydrological Processes, 2021, 35, .	1.1	1
106	Life history of Juniperus sabina L. adapted to the sand shifting environment in the Mu Us Sandy Land, China: A review. Landscape and Ecological Engineering, 2021, 17, 281.	0.7	1
107	Roosting ecology of endangered plantâ€roosting bats on Okinawa Island: Implications for batâ€friendly forestry practices. Ecology and Evolution, 2021, 11, 13961-13971.	0.8	1
108	Plant species effect on the spatial patterns of soil properties in the Mu-us desert ecosystem, Inner Mongolia, China. , 2001, 234, 195.		1

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109	Contribution of Bedrock Groundwater on Perennial Spring at a Forested Headwater Catchment. Journal of Japanese Association of Hydrological Sciences, 2001, 31, 2_59-2_72.	0.2	1
110	Recent Topics of Hillslope Hydrology and Related Research Fields in Forested Catchments. Suimon Mizu Shigen Gakkaishi, 2018, 31, 487-499.	0.1	1
111	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
112	Comparison of the pH Determining Factor of the Streamwater in World Forest Watershed. , 1997, , 105-120.		0
113	Impacts of Hydrological Characteristics on Water Quality of Semiarid River in California. Suimon Mizu Shigen Gakkaishi, 2008, 21, 57-63.	0.1	0
114	Relevant study subjects on nitrogen dynamics and cycles in forested catchment and expected strategies. Journal of Japanese Association of Hydrological Sciences, 2014, 44, 135-145.	0.2	0
115	Ecosystem Monitoring of Radiocesium Dynamics in a Forested Ecosystem in Fukushima after the Nuclear Power Plant Accident. Trends in the Sciences, 2015, 20, 10_16-10_27.	0.0	0
116	Movements and storages of radiocesium in a forest ecosystem in Fukushima. Atomos, 2016, 58, 589-593.	0.0	0