Takashi Osono

List of Publications by Citations

125 papers	3,527 citations	35 h-index	53 g-index
131 ext. papers	3,998 ext. citations	2.7 avg, IF	5.93 L-index

#	Paper	IF	Citations
125	Ecology of ligninolytic fungi associated with leaf litter decomposition. *Ecological Research*, **2007**, 22, 955-974	1.9	287
124	Role of phyllosphere fungi of forest trees in the development of decomposer fungal communities and decomposition processes of leaf litter. *Canadian Journal of Microbiology*, **2006**, 52, 701-16	3.2	142
123	Comparison of litter decomposing ability among diverse fungi in a cool temperate deciduous forest in Japan. *Mycologia*, **2002**, 94, 421-427	2.4	128
122	Organic chemical and nutrient dynamics in decomposing beech leaf litter in relation to fungal ingrowth and succession during 3-year decomposition processes in a cool temperate deciduous forest in Japan. *Ecological Research*, **2001**, 16, 649-670	1.9	122
121	Accumulation and release of nitrogen and phosphorus in relation to lignin decomposition in leaf litter of 14 tree species. *Ecological Research*, **2004**, 19, 593-602	1.9	84
120	Fungal decomposition of Abies needle and Betula leaf litter. *Mycologia*, **2006**, 98, 172-9	2.4	83
119	Decomposition of organic chemical components in relation to nitrogen dynamics in leaf litter of 14 tree species in a cool temperate forest. *Ecological Research*, **2005**, 20, 41-49	1.9	77
118	Low multifunctional redundancy of soil fungal diversity at multiple scales. *Ecology Letters*, **2016**, 19, 249-59	5.9	75
117	Comparison of Litter Decomposing Ability among Diverse Fungi in a Cool Temperate Deciduous Forest in Japan. *Mycologia*, **2002**, 94, 421	2.4	75
116	Endophytic and epiphytic phyllosphere fungi of Camellia japonica: seasonal and leaf age-dependent variations. *Mycologia*, **2008**, 100, 387-91	2.4	74
115	Phyllosphere fungi on leaf litter of Fagus crenata: occurrence, colonization, and succession. *Canadian Journal of Botany*, **2002**, 80, 460-469		61
114	Fungal decomposition of Abies needle and Betula leaf litter. *Mycologia*, **2006**, 98, 172-179	2.4	58
113	Substrate-associated seedling recruitment and establishment of major conifer species in an old-growth subalpine forest in central Japan. *Forest Ecology and Management*, **2004**, 196, 287-297	3.9	58
112	Fungal succession and decomposition of Camellia japonica leaf litter. *Ecological Research*, **2005**, 20, 599-609	1.9	56
111	Roles of diverse fungi in larch needle-litter decomposition. *Mycologia*, **2003**, 95, 820-826	2.4	55
110	Wood decomposing abilities of diverse lignicolous fungi on nondecayed and decayed beech wood. *Mycologia*, **2011**, 103, 474-82	2.4	54
109	Effects of organic chemical quality and mineral nitrogen addition on lignin and holocellulose decomposition of beech leaf litter by Xylaria sp.. *European Journal of Soil Biology*, **2001**, 37, 17-23	2.9	53

108	Decomposing ability of interior and surface fungal colonizers of beech leaves with reference to lignin decomposition. *European Journal of Soil Biology*, **1999**, 35, 51-56	2.9	53
107	Nitrogen and phosphorus enrichment and balance in forests colonized by cormorants: Implications of the influence of soil adsorption. *Plant and Soil*, **2005**, 268, 89-101	4.2	52
106	The roles of microorganisms in litter decomposition and soil formation. *Biogeochemistry*, **2014**, 118, 471-486	3.8	51
105	Effects of attack of saprobic fungi on twig litter decomposition by endophytic fungi. *Ecological Research*, **2009**, 24, 1067-1073	1.9	51
104	Colonization and succession of fungi during decomposition of Swida controversa leaf litter. *Mycologia*, **2005**, 97, 589-97	2.4	51
103	Potassium, calcium, and magnesium dynamics during litter decomposition in a cool temperate forest. *Journal of Forest Research*, **2004**, 9, 23-31	1.4	50
102	Dynamics of physicochemical properties and occurrence of fungal fruit bodies during decomposition of coarse woody debris of Fagus crenata. *Journal of Forest Research*, **2009**, 14, 20-29	1.4	48
101	Disentangling relationships between plant diversity and decomposition processes under forest restoration. *Journal of Applied Ecology*, **2017**, 54, 80-90	5.8	47
100	Colonization and lignin decomposition of Camellia japonica leaf litter by endophytic fungi. *Mycoscience*, **2005**, 46, 280-286	1.2	47
99	Carbon isotope dynamics during leaf litter decomposition with reference to lignin fractions. *Ecological Research*, **2008**, 23, 51-55	1.9	46
98	Changes in the structure and heterogeneity of vegetation and microsite environments with the chronosequence of primary succession on a glacier foreland in Ellesmere Island, high arctic Canada. *Ecological Research*, **2008**, 23, 363-370	1.9	45
97	Fungal ingrowth on forest floor and decomposing needle litter of Chamaecyparis obtusa in relation to resource availability and moisture condition. *Soil Biology and Biochemistry*, **2003**, 35, 1423-1431	7.5	45
96	Immobilization of avian excreta-derived nutrients and reduced lignin decomposition in needle and twig litter in a temperate coniferous forest. *Soil Biology and Biochemistry*, **2006**, 38, 517-525	7.5	40
95	Disentangling the relative importance of host tree community, abiotic environment and spatial factors on ectomycorrhizal fungal assemblages along an elevation gradient. *FEMS Microbiology Ecology*, **2016**, 92, fiw044	4.3	38
94	Phyllosphere fungi on living and decomposing leaves of giant dogwood. *Mycoscience*, **2004**, 45, 35-41	1.2	37
93	Effects of prior decomposition of beech leaf litter by phyllosphere fungi on substrate utilization by fungal decomposers. *Mycoscience*, **2003**, 44, 41-45	1.2	37
92	Fungal colonization as affected by litter depth and decomposition stage of needle litter. *Soil Biology and Biochemistry*, **2006**, 38, 2743-2752	7.5	36
91	Plant species effect on the decomposition and chemical changes of leaf litter in grassland and pine and oak forest soils. *Plant and Soil*, **2014**, 376, 411-421	4.2	35

90	Colonization and succession of fungi during decomposition of Swida controversa leaf litter. *Mycologia*, **2005**, 97, 589-597	2.4	33
89	Abundance, diversity, and species composition of fungal communities in a temperate forest affected by excreta of the Great Cormorant Phalacrocorax carbo. *Soil Biology and Biochemistry*, **2002**, 34, 1537-1547	7.5	33
88	Fungal colonization and decomposition of Castanopsis sieboldii leaves in a subtropical forest. *Ecological Research*, **2008**, 23, 909-917	1.9	32
87	Roles of Diverse Fungi in Larch Needle-Litter Decomposition. *Mycologia*, **2003**, 95, 820	2.4	32
86	Effects of prior decomposition of Camellia japonica leaf litter by an endophytic fungus on the subsequent decomposition by fungal colonizers. *Mycoscience*, **2009**, 50, 52-55	1.2	31
85	Diversity and functioning of fungi associated with leaf litter decomposition in Asian forests of different climatic regions. *Fungal Ecology*, **2011**, 4, 375-385	4.1	30
84	Pattern of natural 15N abundance in lakeside forest ecosystem affected by cormorant-derived nitrogen. *Hydrobiologia*, **2006**, 567, 69-86	2.4	30
83	Limit values for decomposition and convergence process of lignocellulose fraction in decomposing leaf litter of 14 tree species in a cool temperate forest. *Ecological Research*, **2005**, 20, 51-58	1.9	30
82	Decomposition of Japanese beech wood by diverse fungi isolated from a cool temperate deciduous forest. *Mycoscience*, **2005**, 46, 97-101	1.2	29
81	Colonization and lignin decomposition of pine needle litter by Lophodermium pinastri. *Forest Pathology*, **2011**, 41, 156-162	1.2	28
80	Reduction of fungal growth and lignin decomposition in needle litter by avian excreta. *Soil Biology and Biochemistry*, **2006**, 38, 1623-1630	7.5	28
79	Microfungi associated with Abies needles and Betula leaf litter in a subalpine coniferous forest. *Canadian Journal of Microbiology*, **2007**, 53, 1-7	3.2	27
78	Microfungus communities of Japanese beech logs at different stages of decay in a cool temperate deciduous forest. *Canadian Journal of Forest Research*, **2009**, 39, 1606-1614	1.9	26
77	Distribution of phyllosphere fungi within the canopy of giant dogwood. *Mycoscience*, **2004**, 45, 161-168	1.2	26
76	Decomposition of wood, petiole and leaf litter by Xylaria species from northern Thailand. *Fungal Ecology*, **2011**, 4, 210-218	4.1	24
75	Forest Floor Quality and N Transformations in a Temperate Forest Affected by Avian-Derived N Deposition. *Water, Air, and Soil Pollution*, **2001**, 130, 679-684	2.6	24
74	Biodiversity□ecosystem function relationships change through primary succession. *Oikos*, **2017**, 126, 1637-1649	4	23
73	Colonization of Japanese beech leaves by phyllosphere fungi. *Mycoscience*, **2003**, 44, 437-441	1.2	23

72	Functional diversity of ligninolytic fungi associated with leaf litter decomposition. *Ecological Research*, **2020**, 35, 30-43	1.9	23
71	Diversity and ubiquity of xylariaceous endophytes in live and dead leaves of temperate forest trees. *Mycoscience*, **2013**, 54, 54-61	1.2	22
70	Accumulation and decay dynamics of coarse woody debris in a Japanese old-growth subalpine coniferous forest. *Ecological Research*, **2014**, 29, 257-269	1.9	22
69	Seasonal and leaf age-dependent changes in occurrence of phyllosphere fungi of giant dogwood. *Mycoscience*, **2005**, 46, 273-279	1.2	22
68	Comparison of litter decomposing ability among diverse fungi in a cool temperate deciduous forest in Japan. *Mycologia*, **2002**, 94, 421-7	2.4	22
67	Functional redundancy of multiple forest taxa along an elevational gradient: predicting the consequences of non-random species loss. *Journal of Biogeography*, **2015**, 42, 1383-1396	4.1	21
66	Accumulation of carbon and nitrogen in vegetation and soils of deglaciated area in Ellesmere Island, high-Arctic Canada. *Polar Science*, **2016**, 10, 288-296	2.3	21
65	Temporal distance decay of similarity of ectomycorrhizal fungal community composition in a subtropical evergreen forest in Japan. *FEMS Microbiology Ecology*, **2016**, 92, fiw061	4.3	21
64	Selective lignin decomposition and nitrogen mineralization in forest litter colonized by Clitocybe sp.. *European Journal of Soil Biology*, **2011**, 47, 114-121	2.9	21
63	Beech log decomposition by wood-inhabiting fungi in a cool temperate forest floor: a quantitative analysis focused on the decay activity of a dominant basidiomycete Omphalotus guepiniformis. *Ecological Research*, **2010**, 25, 959-966	1.9	20
62	Diversity and community assembly of moss-associated fungi in ice-free coastal outcrops of continental Antarctica. *Fungal Ecology*, **2016**, 24, 94-101	4.1	20
61	Assessment of the fungal diversity and succession of ligninolytic endophytes in Camellia japonica leaves using clone library analysis. *Mycologia*, **2013**, 105, 837-43	2.4	18
60	Effects of temperature and litter type on fungal growth and decomposition of leaf litter. *Mycoscience*, **2011**, 52, 327-332	1.2	18
59	Decomposition of grass leaves by ligninolytic litter-decomposing fungi. *Grassland Science*, **2010**, 56, 31-36	2.3	18
58	Development and seasonal variations of Lophodermium populations on Pinus thunbergii needle litter. *Mycoscience*, **2006**, 47, 242-247	1.2	18
57	Colonization and decomposition of salal (Gaultheria shallon) leaf litter by saprobic fungi in successional forests on coastal British Columbia. *Canadian Journal of Microbiology*, **2008**, 54, 427-34	3.2	17
56	Altitudinal distribution of microfungi associated with Betula ermanii leaf litter on Mt. Rishiri, northern Japan. *Canadian Journal of Microbiology*, **2009**, 55, 783-9	3.2	15
55	Beech cupules share endophytic fungi with leaves and twigs. *Mycoscience*, **2015**, 56, 252-256	1.2	14

54	Effects of clear-cutting on decomposition processes in leaf litter and the nitrogen and lignin dynamics in a temperate secondary forest. *Journal of Forest Research*, **2007**, 12, 247-254	1.4	14
53	Leaf litter decomposition of 12 tree species in a subtropical forest in Japan. *Ecological Research*, **2017**, 32, 413-422	1.9	13
52	Fungal decomposition of woody debris of Castanopsis sieboldii in a subtropical old-growth forest. *Ecological Research*, **2012**, 27, 211-218	1.9	13
51	Abundant deposits of nutrients inside lakebeds of Antarctic oligotrophic lakes. *Polar Biology*, **2017**, 40, 603-613	2	13
50	Metagenomic Approach Yields Insights into Fungal Diversity and Functioning. *SpringerBriefs in Biology*, **2014**, 1-23	0.5	12
49	Abundance and diversity of fungi in relation to chemical changes in arctic moss profiles. *Polar Science*, **2012**, 6, 121-131	2.3	12
48	Endophytic fungi associated with leaves of Betulaceae in Japan. *Canadian Journal of Microbiology*, **2012**, 58, 507-15	3.2	12
47	Fungal succession and decomposition of beech cupule litter. *Ecological Research*, **2012**, 27, 735-743	1.9	11
46	Litter quality control of decomposition of leaves, twigs, and sapwood by the white-rot fungus Trametes versicolor. *European Journal of Soil Biology*, **2017**, 80, 1-8	2.9	10
45	Effects of litter type, origin of isolate, and temperature on decomposition of leaf litter by macrofungi. *Journal of Forest Research*, **2015**, 20, 77-84	1.4	10
44	Diversity, resource utilization, and phenology of fruiting bodies of litter-decomposing macrofungi in subtropical, temperate, and subalpine forests. *Journal of Forest Research*, **2015**, 20, 60-68	1.4	10
43	Microfungal diversity associated with Kindbergia oregana in successional forests of British Columbia. *Ecological Research*, **2012**, 27, 35-41	1.9	10
42	Microfungi associated with withering willow wood in ground contact near Syowa Station, East Antarctica for 40 years. *Polar Biology*, **2013**, 36, 919-924	2	10
41	Endophytic and epiphytic phyllosphere fungi of red-osier dogwood (Cornus stolonifera) in British Columbia. *Mycoscience*, **2007**, 48, 47-52	1.2	9
40	Small-scale variation in chemical property within logs of Japanese beech in relation to spatial distribution and decay ability of fungi. *Mycoscience*, **2005**, 46, 209-214	1.2	9
39	Fungal colonization and decomposition of leaves and stems of Salix arctica on deglaciated moraines in high-Arctic Canada. *Polar Science*, **2014**, 8, 207-216	2.3	8
38	Light quality determines primary production in nutrient-poor small lakes. *Scientific Reports*, **2019**, 9, 4639	4.9	7
37	Fungal succession and decomposition of composted aquatic plants applied to soil. *Fungal Ecology*, **2018**, 35, 34-41	4.1	7

36	Resource utilization of wood decomposers: mycelium nuclear phases and host tree species affect wood decomposition by Dacrymycetes. *Fungal Ecology*, **2014**, 9, 11-16	4.1	7
35	Decomposing ability of diverse litter-decomposer macrofungi in subtropical, temperate, and subalpine forests. *Journal of Forest Research*, **2015**, 20, 272-280	1.4	7
34	Diversity and Ecology of Endophytic and Epiphytic Fungi of Tree Leaves in Japan: A Review **2014**, 3-26		7
33	Consequences of gall tissues as a food resource for a tortricid moth attacking cecidomyiid galls. *Canadian Entomologist*, **2006**, 138, 390-398	0.7	7
32	Geographical distributions of rhytismataceous fungi on Camellia japonica leaf litter in Japan. *Fungal Ecology*, **2017**, 26, 37-44	4.1	6
31	Bleaching of leaf litter and associated microfungi in subboreal and subalpine forests. *Canadian Journal of Microbiology*, **2015**, 61, 735-43	3.2	6
30	Evaluation of host effects on ectomycorrhizal fungal community compositions in a forested landscape in northern Japan. *Royal Society Open Science*, **2020**, 7, 191952	3.3	6
29	Abundance, richness, and succession of microfungi in relation to chemical changes in Antarctic moss profiles. *Polar Biology*, **2017**, 40, 2457-2468	2	6
28	Internal transcribed spacer haplotype diversity and their geographical distribution in Dasyscyphella longistipitata (Hyaloscyphaceae, Helotiales) occurring on Fagus crenata cupules in Japan. *Mycoscience*, **2010**, 51, 116-122	1.2	6
27	Taxonomic, functional, and phylogenetic diversity of fungi along primary successional and elevational gradients near Mount Robson, British Columbia. *Polar Science*, **2019**, 21, 165-171	2.3	6
26	Mass, nitrogen content, and decomposition of woody debris in forest stands affected by excreta deposited in nesting colonies of Great Cormorant. *Ecological Research*, **2015**, 30, 555-561	1.9	5
25	Colonization and decomposition of leaf litter by ligninolytic fungi in Acacia mangium plantations and adjacent secondary forests. *Journal of Forest Research*, **2012**, 17, 51-57	1.4	5
24	Comparison of the diversity, composition, and host recurrence of xylariaceous endophytes in subtropical, cool temperate, and subboreal regions in Japan. *Population Ecology*, **2013**, 56, 289	2.1	5
23	Hyphal length in the forest floor and soil of subtropical, temperate, and subalpine forests. *Journal of Forest Research*, **2015**, 20, 69-76	1.4	5
22	Identifying microbial drivers promoting plant growth on soil amended with composted aquatic plant: insight into nutrient transfer from aquatic to terrestrial systems. *Limnology*, **2020**, 21, 443-452	1.7	4
21	Inter- and intraspecific variations of the chemical properties of high-Arctic mosses along water-regime gradients. *Polar Science*, **2009**, 3, 134-138	2.3	4
20	Roles of diverse fungi in larch needle-litter decomposition. *Mycologia*, **2003**, 95, 820-6	2.4	4
19	Application of 13C NMR spectroscopy to characterize organic chemical components of decomposing coarse woody debris from different climatic regions. *Annals of Forest Research*, **2015**, 58, 3	2.4	3

18	Positive interaction facilitates landscape homogenization by shrub expansion in the forest-tundra ecotone. *Journal of Vegetation Science*, **2020**, 31, 234-244	3.1	3
17	Diversity and Geographic Distribution of Ligninolytic Fungi Associated With Leaf Litter in Japan. *Frontiers in Microbiology*, **2020**, 11, 595427	5.7	3
16	Biogeographic Patterns of Ectomycorrhizal Fungal Communities Associated With Across the Japanese Archipelago. *Frontiers in Microbiology*, **2019**, 10, 2656	5.7	3
15	Bacterial 16S rDNA and alkaline phosphatase gene diversity in soil applied with composted aquatic plants. *Limnology*, **2020**, 21, 357-364	1.7	3
14	Two-years of investigation revealed the inconsistency of seasonal dynamics of an ectomycorrhizal fungal community in Japanese cool-temperate forest across years. *FEMS Microbiology Ecology*, **2020**, 96,	4.3	2
13	Species Diversity and Community Structure. *SpringerBriefs in Biology*, **2014**,	0.5	2
12	Microfungi associated with a myrmecophyte Macaranga bancana. *Tropics*, **2013**, 22, 19-25	0.9	1
11	Biogeographic patterns of ectomycorrhizal fungal communities associated with Castanopsis sieboldii across the Japanese archipelago		1
10	Decomposition of Organic Chemical Components in Wood by Tropical Species. *Journal of Fungi (Basel, Switzerland)*, **2020**, 6,	5.6	1
9	Variability of decomposing ability among fungi associated with the bleaching of subtropical leaf litter. *Mycologia*, **2021**, 113, 703-714	2.4	1
8	Taxonomic, functional, and phylogenetic diversity of fungi in a forest-tundra ecotone in Québec. *Polar Science*, **2021**, 27, 100594	2.3	1
7	Bleaching of leaf litter accelerates the decomposition of recalcitrant components and mobilization of nitrogen in a subtropical forest. *Scientific Reports*, **2021**, 11, 1787	4.9	1
6	Pattern of natural 15N abundance in lakeside forest ecosystem affected by cormorant-derived nitrogen **2006**, 69-86		1
5	The ectomycorrhizal fungal communities react differently to climatic, edaphic and spatial variables depending on their host species. *Journal of Biogeography*, **2021**, 48, 2550-2561	4.1	0
4	Occurrence, hyphal growth rate, and carbon source utilization of fungi from continental Antarctica. *Polar Science*, **2021**, 100738	2.3	0
3	Diversity and host recurrence of fungi associated with the bleached leaf litter in a subtropical forest. *Fungal Ecology*, **2021**, 54, 101113	4.1	
2	Prolonged impacts of past agriculture and ungulate overabundance on soil fungal communities in restored forests. *Environmental DNA*, **2021**, 3, 930-939	7.6	
1	Integrative assessment of the effects of shrub coverage on soil respiration in a tundra ecosystem. *Polar Science*, **2021**, 27, 100562	2.3	