

Hiroaki Ishii

List of Publications by Citations

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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.

80
papers

1,604
citations

20
h-index

37
g-index

83
ext. papers

1,773
ext. citations

2.6
avg, IF

4.54
L-index

#	Paper	IF	Citations
80	The relationship between tree height and leaf area: sapwood area ratio. <i>Oecologia</i> , 2002 , 132, 12-20	2.9	246
79	Arthropods as bioindicators of sustainable forest management, with a focus on plantation forests. <i>Applied Entomology and Zoology</i> , 2009 , 44, 1-11	1.5	98
78	The role of crown architecture, leaf phenology and photosynthetic activity in promoting complementary use of light among coexisting species in temperate forests. <i>Ecological Research</i> , 2010 , 25, 715-722	1.9	93
77	Fine root morphological traits determine variation in root respiration of <i>Quercus serrata</i> . <i>Tree Physiology</i> , 2009 , 29, 579-85	4.2	81
76	Hydrostatic constraints on morphological exploitation of light in tall <i>Sequoia sempervirens</i> trees. <i>Oecologia</i> , 2008 , 156, 751-63	2.9	79
75	Very fine roots respond to soil depth: biomass allocation, morphology, and physiology in a broad-leaved temperate forest. <i>Ecological Research</i> , 2011 , 26, 95-104	1.9	68
74	Age-related development of crown structure in coastal Douglas-fir trees. <i>Forest Ecology and Management</i> , 2002 , 169, 257-270	3.9	53
73	The role of epicormic shoot production in maintaining foliage in old <i>Pseudotsuga menziesii</i> (Douglas-fir) trees. <i>Canadian Journal of Botany</i> , 2001 , 79, 251-264		50
72	Pushing the limits to tree height: could foliar water storage compensate for hydraulic constraints in <i>Sequoia sempervirens</i> ?. <i>Functional Ecology</i> , 2014 , 28, 1087-1093	5.6	44
71	Integrating ecological and cultural values toward conservation and utilization of shrine/temple forests as urban green space in Japanese cities. <i>Landscape and Ecological Engineering</i> , 2010 , 6, 307-315	2	39
70	Physiological and ecological implications of adaptive reiteration as a mechanism for crown maintenance and longevity. <i>Tree Physiology</i> , 2007 , 27, 455-62	4.2	39
69	Variation in specific needle area of old-growth Douglas-fir in relation to needle age, within-crown position and epicormic shoot production. <i>Tree Physiology</i> , 2002 , 22, 31-40	4.2	36
68	Crown structure of old-growth Douglas-fir in the western Cascade Range, Washington. <i>Canadian Journal of Forest Research</i> , 2001 , 31, 1250-1261	1.9	35
67	Tree growth and competition in a <i>Betula platyphylla</i> - <i>Larix cajanderi</i> post-fire forest in central Kamchatka. <i>Annals of Botany</i> , 2004 , 94, 333-43	4.1	34
66	Branch growth and crown form in old coastal Douglas-fir. <i>Forest Ecology and Management</i> , 2000 , 131, 81-91	3.9	34
65	Height growth and vertical development of an old-growth <i>Pseudotsuga</i> - <i>Tsuga</i> forest in southwestern Washington State, U.S.A.. <i>Canadian Journal of Forest Research</i> , 2000 , 30, 17-24	1.9	32
64	Line thinning promotes stand growth and understory diversity in Japanese cedar (<i>Cryptomeria japonica</i> D. Don) plantations. <i>Journal of Forest Research</i> , 2008 , 13, 73-78	1.4	28

63	The need for a canopy perspective to understand the importance of phenotypic plasticity for promoting species coexistence and light-use complementarity in forest ecosystems. <i>Ecological Research</i> , 2013 , 28, 191-198	1.9	26
62	The role of epicormic shoot production in maintaining foliage in old <i>Pseudotsuga menziesii</i> (Douglas-fir) trees II. Basal reiteration from older branch axes. <i>Canadian Journal of Botany</i> , 2002 , 80, 916-926		26
61	Plasticity of shoot and needle morphology and photosynthesis of two <i>Picea</i> species with different site preferences in northern Japan. <i>Tree Physiology</i> , 2007 , 27, 1595-605	4.2	21
60	Line thinning fosters the abundance and diversity of understory Hymenoptera (Insecta) in Japanese cedar (<i>Cryptomeria japonica</i> D. Don) plantations. <i>Journal of Forest Research</i> , 2007 , 12, 14-23	1.4	20
59	Function and structure of leaves contributing to increasing water storage with height in the tallest <i>Cryptomeria japonica</i> trees of Japan. <i>Trees - Structure and Function</i> , 2016 , 30, 141-152	2.6	19
58	Effects of individual size, local competition and canopy closure on the stem volume growth in a monoclonal Japanese cedar (<i>Cryptomeria japonica</i> D. Don) plantation. <i>Ecological Research</i> , 2008 , 23, 953-964	1.9	19
57	Persistence of <i>Pseudotsuga menziesii</i> (Douglas-fir) in temperate coniferous forests of the Pacific Northwest Coast, USA. <i>Folia Geobotanica</i> , 2002 , 37, 63-69	1.4	19
56	Removal of understory dwarf bamboo (<i>Sasa kurilensis</i>) induces changes in water-relations characteristics of overstory <i>Betula ermanii</i> trees. <i>Journal of Forest Research</i> , 2008 , 13, 101-109	1.4	17
55	Height growth and vertical development of an old-growth <i>Pseudotsuga-Tsuga</i> forest in southwestern Washington State, U.S.A.. <i>Canadian Journal of Forest Research</i> , 2000 , 30, 17-24	1.9	17
54	Large, retained trees of <i>Cryptomeria japonica</i> functioned as refugia for canopy woody plants after logging 350 years ago in Yakushima, Japan. <i>Forest Ecology and Management</i> , 2018 , 409, 457-467	3.9	16
53	Line thinning enhances diversity of Coleoptera in overstocked <i>Cryptomeria japonica</i> plantations in central Japan. <i>Arthropod-Plant Interactions</i> , 2007 , 1, 175-185	2.2	16
52	Intraspecific variation in fine root respiration and morphology in response to in situ soil nitrogen fertility in a 100-year-old <i>Chamaecyparis obtusa</i> forest. <i>Oecologia</i> , 2015 , 179, 959-67	2.9	15
51	Light acclimation potential and carry-over effects vary among three evergreen tree species with contrasting patterns of leaf emergence and maturation. <i>Tree Physiology</i> , 2011 , 31, 819-30	4.2	15
50	Effects of the spatial arrangement of aerial stems and current-year shoots on the demography and growth of <i>Hydrangea hirta</i> in a light-limited environment. <i>New Phytologist</i> , 1997 , 136, 443-453	9.8	15
49	Crown dynamics and wood production of Douglas-fir trees in an old-growth forest. <i>Forest Ecology and Management</i> , 2017 , 384, 157-168	3.9	14
48	Model analysis of the importance of reiteration for branch longevity in <i>Pseudotsuga menziesii</i> compared with <i>Abies grandis</i> . <i>Canadian Journal of Botany</i> , 2004 , 82, 892-909		14
47	The method of synthesis in ecology. <i>Oikos</i> , 2001 , 93, 153-160	4	14
46	Ecological restoration of a fragmented urban shrine forest in southeastern Hyogo Prefecture, Japan: Initial effects of the removal of invasive <i>Trachycarpus fortunei</i> . <i>Urban Ecosystems</i> , 2008 , 11, 309-316	2.8	13

45	Evaluating restoration success of a 40-year-old urban forest in reference to mature natural forest. <i>Urban Forestry and Urban Greening</i> , 2018 , 32, 123-132	5.4	12
44	Variation in light-intercepting area and photosynthetic rate of sun and shade shoots of two <i>Picea</i> species in relation to the angle of incoming light. <i>Tree Physiology</i> , 2012 , 32, 1227-36	4.2	12
43	Acclimation of shoot and needle morphology and photosynthesis of two <i>Picea</i> species to differences in soil nutrient availability. <i>Tree Physiology</i> , 2003 , 23, 453-61	4.2	12
42	Climatic factors affecting radial growth of <i>Betula ermanii</i> and <i>Betula platyphylla</i> in Kamchatka. <i>Canadian Journal of Forest Research</i> , 2010 , 40, 273-285	1.9	11
41	Variation of intra-crown leaf plasticity of <i>Fagus crenata</i> across its geographical range in Japan. <i>Forest Ecology and Management</i> , 2018 , 429, 437-448	3.9	10
40	Biomass and dynamics of attached dead branches in the canopy of 450-year-old Douglas-fir trees. <i>Canadian Journal of Forest Research</i> , 2006 , 36, 378-389	1.9	10
39	Biomass Cycling and Soil Properties in an Agroforestry-based Plantation System of kayu putih (<i>Melaleuca leucadendron</i> LINN) in East Java, Indonesia. <i>Agroforestry Systems</i> , 2006 , 67, 135-145	2	9
38	Twenty-one years of stand dynamics in a 33-year-old urban forest restoration site at Kobe Municipal Sports Park, Japan. <i>Urban Forestry and Urban Greening</i> , 2015 , 14, 309-314	5.4	8
37	Vegetation recovery after removal of invasive <i>Trachycarpus fortunei</i> in a fragmented urban shrine forest. <i>Urban Forestry and Urban Greening</i> , 2016 , 15, 53-57	5.4	8
36	Stand Structure of an Abandoned Deciduous Broadleaf Secondary Forest Adjacent to Lucidophyllous Forest and Agricultural Fields.. <i>Journal of the Japanese Forest Society</i> , 2014 , 96, 75-82	0.2	8
35	Vertical stratification and effects of crown damage on maximum tree height in mixed coniferBroadleaf forests of Yakushima Island, southern Japan. <i>Plant Ecology</i> , 2010 , 211, 27-36	1.7	8
34	Evaluation of shrine forests as urban green space. <i>Landscape Ecology and Management</i> , 2007 , 12, 1-7	0	8
33	Height-related variations of leaf traits reflect strategies for maintaining photosynthetic and hydraulic homeostasis in mature and old <i>Pinus densiflora</i> trees. <i>Oecologia</i> , 2019 , 189, 317-328	2.9	8
32	Leaf water maintains daytime transpiration in young <i>Cryptomeria japonica</i> trees. <i>Tree Physiology</i> , 2017 , 37, 1394-1403	4.2	7
31	How Do Changes in Leaf/Shoot Morphology and Crown Architecture Affect Growth and Physiological Function of Tall Trees?. <i>Tree Physiology</i> , 2011 , 215-232		7
30	Convergence of leaf display and photosynthetic characteristics of understory <i>Abies amabilis</i> and <i>Tsuga heterophylla</i> in an old-growth forest in southwestern Washington State, USA. <i>Tree Physiology</i> , 2009 , 29, 989-98	4.2	7
29	Water retained in tall <i>Cryptomeria japonica</i> leaves as studied by infrared micro-spectroscopy. <i>Tree Physiology</i> , 2017 , 37, 1367-1378	4.2	6
28	Establishment and growth pattern of <i>Pinus pumila</i> under a forest canopy in central Kamchatka. <i>Ecological Research</i> , 2008 , 23, 831-840	1.9	6

27	Aboveground productivity of an unsuccessful 140-year-old <i>Cryptomeria japonica</i> plantation in northern Kyushu, Japan. <i>Journal of Forest Research</i> , 2011 , 16, 268-274	1.4	5
26	Seasonal prevalence of arthropods after line thinning of overstocked Japanese cedar (<i>Cryptomeria japonica</i> D. Don) plantations in central Japan. <i>Landscape and Ecological Engineering</i> , 2010 , 6, 43-52	2	5
25	Productivity of kayu putih (<i>Melaleuca leucadendron</i> LINN) tree plantation managed in non-timber forest production systems in Java, Indonesia. <i>Agroforestry Systems</i> , 2005 , 64, 143-155	2	5
24	Application of Laser Remote Sensing to Forest Ecological Research. <i>Journal of the Japanese Forest Society</i> , 2014 , 96, 168-181	0.2	4
23	Basal reiteration improves the hydraulic functional status of mature <i>Cinnamomum camphora</i> trees. <i>Trees - Structure and Function</i> , 2009 , 23, 317-323	2.6	4
22	Hydraulic Architecture and Function of Tall Trees. <i>Journal of the Japanese Forest Society</i> , 2017 , 99, 74-83	0.2	3
21	Oviposition site selection by Japanese gypsy moth (<i>Lymtria dispar japonica</i>) in a warm-temperate secondary forest in western Japan. <i>Forest Science and Technology</i> , 2016 , 12, 130-136	1.5	3
20	Predicting effects of climate change on productivity and persistence of forest trees. <i>Ecological Research</i> , 2020 , 35, 562-574	1.9	2
19	Physiological and morphological acclimation to height in cupressoid leaves of 100-year-old <i>Chamaecyparis obtusa</i> . <i>Tree Physiology</i> , 2017 , 37, 1327-1336	4.2	2
18	Acclimation potential of three evergreen tree species to wind-induced water stress in an urban green-roof environment. <i>Urban Forestry and Urban Greening</i> , 2019 , 43, 126386	5.4	2
17	Different physiological and morphological responses of leaves and branches of <i>Ligustrum japonicum</i> and invasive <i>L. lucidum</i> to the light environment.. <i>Journal of the Japanese Society of Revegetation Technology</i> , 2009 , 35, 45-50	0.1	2
16	Regional and topographic growth variation among 45-year-old clonal plantations of <i>Cryptomeria japonica</i> : effects of genotype and phenotypic plasticity. <i>Journal of Forest Research</i> , 2020 , 25, 329-338	1.4	1
15	Branch and Foliage Mass and their Vertical Distribution in a 90-year-old <i>Chamaecyparis obtusa</i> Plantation.. <i>Journal of the Japanese Forest Society</i> , 2010 , 92, 63-71	0.2	1
14	Urban forestry: toward creation of diverse urban green space. <i>Journal of the Japanese Society of Revegetation Technology</i> , 2015 , 40, 505-507	0.1	1
13	Response of Ant Community Structure to Understory Removal in a Line-thinned Japanese Cedar (<i>Cryptomeria japonica</i>) Plantation. <i>Journal of the Japanese Forest Society</i> , 2013 , 95, 95-100	0.2	1
12	One large tree crown can be defined as a local hotspot for plant species diversity in a forest ecosystem: a case study in temperate old-growth forest. <i>Plant Ecology</i> , 1	1.7	0
11	Tolerance and acclimation of photosynthesis of nine urban tree species to warmer growing conditions. <i>Trees - Structure and Function</i> , 2021 , 35, 1793	2.6	0
10	Comparison of branch growth estimates in <i>Larix gmelinii</i> by several methods. <i>Journal of Forest Research</i> , 2013 , 18, 345-352	1.4	

- 9 Removal of invasive *Trachycarpus fortunei* at Nishinomiya Shrine, Hyogo Prefecture, Japan. *Landscape Ecology and Management*, **2007**, 12, 35-43 0
- 8 Comparison of Leaf Functional Trait Plasticity between Exotic and Native *Ligustrum* Species in Japan. *Journal of the Japanese Forest Society*, **2019**, 101, 221-226 0.2
- 7 Tree Architecture in *Ocotea* (Lauraceae): Do Ant-Occupied Species Differ Structurally from Non-Ant-Occupied Species?. *Tropics*, **1995**, 4, 239-245 0.9
- 6 Simulation Study of Size-structure Dynamics with Changing Spatial Pattern of Tree Sizes in a Lattice-planted Japanese Cedar (*Cryptomeria japonica* D. Don) Plantation. *Journal of Forest Planning*, **2009**, 15, 11-19 0
- 5 Field Measurement of Heterotrophic Respiration of Root Litter Using a Small Chamber System.. *Journal of the Japanese Forest Society*, **2010**, 92, 269-272 0.2
- 4 Physiological and morphological properties of *Cinnamomum camphora* cuttings: comparison with seedlings. *Journal of the Japanese Society of Revegetation Technology*, **2011**, 37, 21-25 0.1
- 3 Ant Community Structure and Related Environmental Factors after Line Thinning in Japanese Cedar (*Cryptomeria japonica*) Plantations. *Journal of the Japanese Forest Society*, **2012**, 94, 36-41 0.2
- 2 Urban forest management in Melbourne city based on "Water-Sensitive Urban Design: Urban design considering the water cycle". *Journal of the Japanese Society of Revegetation Technology*, **2016**, 42, 455-459 0.1
- 1 Spatial and functional niche overlap between invasive *Ligustrum lucidum* and native woody species in an urban shrine forest in Japan. *Landscape and Ecological Engineering*, **1** 2