

Shin-ichiro Aiba

List of Publications by Year in descending order

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63
papers

3,866
citations

172457

29
h-index

128289

60
g-index

66
all docs

66
docs citations

66
times ranked

5213
citing authors

#	ARTICLE	IF	CITATIONS
1	An estimate of the number of tropical tree species. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7472-7477.	7.1	335
2	Ecosystem structure and productivity of tropical rain forests along altitudinal gradients with contrasting soil phosphorus pools on Mount Kinabalu, Borneo. Journal of Ecology, 2002, 90, 37-51.	4.0	323
3	Title is missing!. Plant Ecology, 1999, 140, 139-157.	1.6	284
4	Environmental correlates of tree biomass, basal area, wood specific gravity and stem density gradients in Borneo's tropical forests. Global Ecology and Biogeography, 2010, 19, 50-60.	5.8	269
5	Diversity and carbon storage across the tropical forest biome. Scientific Reports, 2017, 7, 39102.	3.3	251
6	Long-term thermal sensitivity of Earth's tropical forests. Science, 2020, 368, 869-874.	12.6	198
7	Phylogenetic classification of the world's tropical forests. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1837-1842.	7.1	144
8	Long-term carbon sink in Borneo's forests halted by drought and vulnerable to edge effects. Nature Communications, 2017, 8, 1966.	12.8	116
9	Soil phosphorus fractionation and phosphorus-use efficiencies of tropical rainforests along altitudinal gradients of Mount Kinabalu, Borneo. Oecologia, 2000, 123, 342-349.	2.0	111
10	Crown Architecture and Life-History Traits of 14 Tree Species in a Warm-Temperate Rain Forest: Significance of Spatial Heterogeneity. Journal of Ecology, 1997, 85, 611.	4.0	108
11	Title is missing!. Plant Ecology, 2002, 159, 35-49.	1.6	104
12	The effects of a typhoon on Japanese warm temperate rainforests. Ecological Research, 1996, 11, 229-247.	1.5	101
13	Effects of the 1997-98 El Niño drought on rain forests of Mount Kinabalu, Borneo. Journal of Tropical Ecology, 2002, 18, 215-230.	1.1	100
14	Seasonality in fruit availability affects frugivorous primate biomass and species richness. Ecography, 2011, 34, 1009-1017.	4.5	95
15	Tree Species Stratification in Relation to Allometry and Demography in a Warm-Temperate Rain Forest. Journal of Ecology, 1996, 84, 207.	4.0	91
16	Environmental correlates for tropical tree diversity and distribution patterns in Borneo. Diversity and Distributions, 2009, 15, 523-532.	4.1	90
17	Trade-off between light interception efficiency and light use efficiency: implications for species coexistence in one-sided light competition. Journal of Ecology, 2014, 102, 167-175.	4.0	82
18	Soil Phosphorus Fractionation and Phosphorus-Use Efficiency of a Bornean Tropical Montane Rain Forest During Soil Aging With Podzolization. Ecosystems, 2004, 7, 259.	3.4	80

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19	Fruit fall in tropical and temperate forests: implications for frugivore diversity. <i>Ecological Research</i> , 2010, 25, 1081-1090.	1.5	77
20	Comparison between old-growth stands and secondary stands regenerating after clear-felling in warm-temperate forests of Yakushima, southern Japan. <i>Forest Ecology and Management</i> , 2001, 140, 163-175.	3.2	71
21	Soil nitrogen mineralization rates of rainforests in a matrix of elevations and geological substrates on Mount Kinabalu, Borneo. <i>Ecological Research</i> , 1998, 13, 301-312.	1.5	67
22	Soils on exposed Sunda Shelf shaped biogeographic patterns in the equatorial forests of Southeast Asia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12343-12347.	7.1	67
23	The global abundance of tree palms. <i>Global Ecology and Biogeography</i> , 2020, 29, 1495-1514.	5.8	62
24	Changes in biomass, productivity and decomposition along topographical gradients under different geological conditions in tropical lower montane forests on Mount Kinabalu, Borneo. <i>Oecologia</i> , 2003, 134, 397-404.	2.0	61
25	Habitat associations with topography and canopy structure of tree species in a tropical montane forest on Mount Kinabalu, Borneo. <i>Plant Ecology</i> , 2004, 174, 147-161.	1.6	56
26	Effects of selective logging on tree species diversity and composition of Bornean tropical rain forests at different spatial scales. <i>Plant Ecology</i> , 2012, 213, 1413-1424.	1.6	55
27	Comparative study of additive basal area of conifers in forest ecosystems along elevational gradients. <i>Ecological Research</i> , 2007, 22, 439-450.	1.5	40
28	Regional forcing explains local species diversity and turnover on tropical islands. <i>Global Ecology and Biogeography</i> , 2018, 27, 474-486.	5.8	38
29	Pattern of changes in species diversity, structure and dynamics of forest ecosystems along latitudinal gradients in East Asia. <i>Ecological Research</i> , 2005, 20, 287-296.	1.5	35
30	Dynamics, productivity and species richness of tropical rainforests along elevational and edaphic gradients on Mount Kinabalu, Borneo. <i>Ecological Research</i> , 2005, 20, 279-286.	1.5	27
31	Temperature is a dominant driver of distinct annual seasonality of leaf litter production of equatorial tropical rain forests. <i>Journal of Ecology</i> , 2021, 109, 727-736.	4.0	27
32	Long-term C, N and P allocation to reproduction in Bornean tropical rain forests. <i>Journal of Ecology</i> , 2015, 103, 606-615.	4.0	26
33	Structure, floristics and diversity of tropical montane rain forests over ultramafic soils on Mount Kinabalu (Borneo) compared with those on non-ultramafic soils. <i>Australian Journal of Botany</i> , 2015, 63, 191.	0.6	20
34	On the relationships between leaf-litter lignin and net primary productivity in tropical rain forests. <i>Oecologia</i> , 2004, 140, 335-339.	2.0	19
35	Plant-soil feedbacks and the dominance of conifers in a tropical montane forest in Borneo. <i>Ecological Monographs</i> , 2017, 87, 105-129.	5.4	19
36	Phosphorus allocation to and resorption from leaves regulate the residence time of phosphorus in above-ground forest biomass on Mount Kinabalu, Borneo. <i>Functional Ecology</i> , 2020, 34, 1702-1712.	3.6	17

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37	Soil nutrient availability and the nutrient-use efficiencies of forests along an altitudinal gradient on Yakushima Island, Japan. <i>Ecological Research</i> , 2016, 31, 719-730.	1.5	15
38	Effects of El Niño drought on tree mortality and growth across forest types at different elevations in Borneo. <i>Forest Ecology and Management</i> , 2021, 490, 119096.	3.2	14
39	Annual leaf loss caused by folivorous insects in tropical rain forests on Mt. Kinabalu, Borneo. <i>Journal of Forest Research</i> , 2013, 18, 353-360.	1.4	13
40	Canopy structure of tropical and sub-tropical rain forests in relation to conifer dominance analysed with a portable LIDAR system. <i>Annals of Botany</i> , 2013, 112, 1899-1909.	2.9	13
41	Community dynamics over 14 years along gradients of geological substrate and topography in tropical montane forests on Mount Kinabalu, Borneo. <i>Journal of Tropical Ecology</i> , 2015, 31, 117-128.	1.1	13
42	Variation in the aboveground stand structure and fine-root biomass of Bornean heath (kerangas) forests in relation to altitude and soil nitrogen availability. <i>Trees - Structure and Function</i> , 2016, 30, 385-394.	1.9	13
43	Dynamics of Primary and Secondary Warm-temperate Rain Forests in Yakushima Island. <i>Tropics</i> , 1996, 6, 383-392.	0.8	12
44	The Ecology of Podocarps in Tropical Montane Forests of Borneo: Distribution, Population Dynamics, and Soil Nutrient Acquisition. <i>Smithsonian Contributions To Botany</i> , 2011, , 101-117.	0.7	12
45	Influence of temperature and soil nitrogen and phosphorus availabilities on fine-root productivity in tropical rainforests on Mount Kinabalu, Borneo. <i>Ecological Research</i> , 2017, 32, 145-156.	1.5	11
46	Structural and floristic variation among small replicate plots of a tropical montane forest on Mount Kinabalu, Sabah, Malaysia. <i>Tropics</i> , 2006, 15, 219-236.	0.8	9
47	Dynamics of species diversity in a Japanese warm-temperate secondary forest. <i>Ecosphere</i> , 2011, 2, art80.	2.2	9
48	Ecosystem impacts of folivory and frugivory by Japanese macaques in two temperate forests in Yakushima. <i>American Journal of Primatology</i> , 2014, 76, 596-607.	1.7	7
49	Fruit fall in five warm- and cool-temperate forests in Yakushima, Japan. <i>Forestry Studies in China</i> , 2010, 12, 184-192.	0.4	6
50	Size structure, growth and regeneration of tropical conifers along a soil gradient related to altitude and geological substrates on Mount Kinabalu, Borneo. <i>Plant and Soil</i> , 2016, 403, 103-114.	3.7	6
51	Tropical cyclones and island area shape species abundance distributions of local tree communities. <i>Oikos</i> , 2020, 129, 1856-1866.	2.7	6
52	Edaphic specialization and vegetation zones define elevational range-sizes for Mt Kinabalu regional flora. <i>Ecography</i> , 2021, 44, 1698-1709.	4.5	6
53	Litter decomposition rates across tropical montane and lowland forests are controlled foremost by climate. <i>Biotropica</i> , 2022, 54, 309-326.	1.6	6
54	Light and nutrient limitations for tree growth on young versus old soils in a Bornean tropical montane forest. <i>Journal of Plant Research</i> , 2020, 133, 665-679.	2.4	5

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55	Vegetation Zonation and Conifer Dominance Along Latitudinal and Altitudinal Gradients in Humid Regions of the Western Pacific. <i>Structure and Function of Mountain Ecosystems in Japan</i> , 2016, , 89-114.	0.5	5
56	Latitudinal and altitudinal variations across temperate to subtropical forests from southern Kyushu to the northern Ryukyu Archipelago, Japan. <i>Journal of Forest Research</i> , 2021, 26, 171-180.	1.4	4
57	Annual periodicity of fruiting in temperate forests in Yakushima, Japan. <i>Forestry Studies in China</i> , 2011, 13, 112-122.	0.4	3
58	Productivity and morphological traits of fine roots in forest ecosystems along an elevation gradient of Yakushima Island. <i>Journal of Forest Research</i> , 2019, 24, 35-41.	1.4	3
59	Effects of tree-root exudates on the solubilization of phosphorus adsorbed to non-crystalline minerals in the rhizosphere volcanic soils on Yakushima Island, Japan. <i>Trees - Structure and Function</i> , 2021, 35, 2031-2041.	1.9	2
60	Functional Differentiation and Positive Feedback Enhancing Plant Biodiversity. , 2000, , 179-191.		2
61	Dynamics, productivity and species richness of tropical rainforests along elevational and edaphic gradients on Mount Kinabalu, Borneo. , 2005, , 41-48.		1
62	Pattern of changes in species diversity, structure and dynamics of forest ecosystems along latitudinal gradients in East Asia. , 2005, , 49-58.		1
63	Nitrogen mineralization rates of the soils incubated under different temperatures from different elevations along an environmental gradient on Yakushima Island. <i>Ecological Research</i> , 2020, 35, 428-438.	1.5	1