Yusuke Onoda

List of Publications by Year
in descending order

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Version: 2024-02-01

76	10,669	109321 35	71685 76
papers	citations	h-index	g-index

82	82	82	16596
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rhizomes play significant roles in biomass accumulation, production and carbon turnover in a stand of the tall bamboo Phyllostachys edulis. Journal of Forest Research, 2023, 28, 42-50.	1.4	6
2	The acquisitiveâ€“conservative axis of leaf trait variation emerges even in homogeneous environments. Annals of Botany, 2022, 129, 709-722.	2.9	18
3	Massive investments in flowers were in vain: Mass flowering after a century did not bear fruit in the bamboo Phyllostachys nigra var. henonis. Plant Species Biology, 2022, 37, 78-90.	1.0	6
4	Forest canopy height variation in relation to topography and forest types in central Japan with LiDAR. Forest Ecology and Management, 2022, 503, 119792.	3.2	10
5	Small and slow is safe: On the drought tolerance of tropical tree species. Global Change Biology, 2022, 28, 2622-2638.	9.5	35
6	Demography and selection analysis of the incipient adaptive radiation of a Hawaiian woody species. PLoS Genetics, 2022, 18, e1009987.	3.5	3
7	A costâ€“benefit analysis of leaf carbon economy with consideration of seasonal changes in leaf traits for sympatric deciduous and evergreen congeners: implications for their coexistence. New Phytologist, 2022, 234, 1047-1058.	7.3	16
8	Vertical and horizontal light heterogeneity along gradients of secondary succession in coolâ€•and warmâ€•temperate forests. Journal of Vegetation Science, 2022, 33, .	2.2	9
9	High exposure of global tree diversity to human pressure. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	18
10	How plants grow under gravity conditions besides 1 g: perspectives from hypergravity and space experiments that employ bryophytes as a model organism. Plant Molecular Biology, 2021, 107, 279-291.	3.9	8
11	Wider crown shyness between broadâ€leaved tree species than between coniferous tree species in a mixed forest of Castanopsis cuspidata and <scp>Chamaecyparis obtusa</scp>. Ecological Research, 2021, 36, 733-743.	1.5	6
12	Coordination of leaf economics traits within the family of the world's fastest growing plants (Lemnaceae). Journal of Ecology, 2021, 109, 2950-2962.	4.0	6
13	Global patterns of leaf construction traits and their covariation along climate and soil environmental gradients. New Phytologist, 2021, 232, 1648-1660.	7.3	18
14	AusTraits, a curated plant trait database for the Australian flora. Scientific Data, 2021, 8, 254.	5.3	73
15	Does the leaf economic spectrum hold within plant functional types? A Bayesian multivariate trait metaâ€analysis. Ecological Applications, 2020, 30, e02064.	3.8	22
16	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	9.5	1,038
17	Leaf trichomes in Metrosideros polymorpha can contribute to avoiding extra water stress by impeding gall formation. Annals of Botany, 2020, 125, 533-542.	2.9	8
18	Revisiting the Functional Basis of Sclerophylly Within the Leaf Economics Spectrum of Oaks: Different Roads to Rome. Current Forestry Reports, 2020, 6, 260-281.	7.4	26

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19	Global plant trait relationships extend to the climatic extremes of the tundra biome. Nature Communications, 2020, 11, 1351.	12.8	52
20	Traitâ€“abundance relationships in tree communities along temperature and successional gradients. Journal of Vegetation Science, 2020, 31, 551-560.	2.2	4
21	Simulating functional diversity of European natural forests along climatic gradients. Journal of Biogeography, 2020, 47, 1069-1085.	3.0	19
22	Estimating the flexural rigidity of Arabidopsis inflorescence stems: Free-vibration test vs. three-point bending test. Plant Biotechnology, 2020, 37, 471-474.	1.0	4
23	Leaf mechanical strength and photosynthetic capacity vary independently across 57 subtropical forest species with contrasting light requirements. New Phytologist, 2019, 223, 607-618.	7.3	37
24	Acclimation and adaptation components of the temperature dependence of plant photosynthesis at the global scale. New Phytologist, 2019, 222, 768-784.	7.3	171
25	Core microbiomes for sustainable agroecosystems. Nature Plants, 2018, 4, 247-257.	9.3	639
26	Plant functional trait change across a warming tundra biome. Nature, 2018, 562, 57-62.	27.8	451
27	The Leaf Economics Spectrum and its Underlying Physiological and Anatomical Principles. Advances in Photosynthesis and Respiration, 2018, , 451-471.	1.0	8
28	Leaf Anatomy and Function. Advances in Photosynthesis and Respiration, 2018, , 97-139.	1.0	34
29	A simple method to estimate the rate of the bamboo expansion based on oneâ€time measurement of spatial distribution of culms. Ecological Research, 2018, 33, 1137-1143.	1.5	8
30	The population genomic signature of environmental association and gene flow in an ecologically divergent tree species Metrosideros polymorpha (Myrtaceae). Molecular Ecology, 2017, 26, 1515-1532.	3.9	22
31	Decadesâ€long effects of high CO₂ concentration on soil nitrogen dynamics at a natural CO₂ spring. Ecological Research, 2017, 32, 215-225.	1.5	3
32	Physiological and structural tradeoffs underlying the leaf economics spectrum. New Phytologist, 2017, 214, 1447-1463.	7.3	412
33	Influence of leaf trichomes on boundary layer conductance and gasâ€exchange characteristics in Metrosideros polymorpha (Myrtaceae). Biotropica, 2017, 49, 482-492.	1.6	28
34	Phosphorus and nitrogen resorption from different chemical fractions in senescing leaves of tropical tree species on Mount Kinabalu, Borneo. Oecologia, 2017, 185, 171-180.	2.0	40
35	Mapping local and global variability in plant trait distributions. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10937-E10946.	7.1	159
36	Contextâ€dependent changes in the functional composition of tree communities along successional gradients after landâ€use change. Journal of Ecology, 2016, 104, 1347-1356.	4.0	22

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37	Plant functional traits have globally consistent effects on competition. Nature, 2016, 529, 204-207.	27.8	655
38	A quantitative analysis of phenotypic variations of Metrosideros polymorpha within and across populations along environmental gradients on Mauna Loa, Hawaii. Oecologia, 2016, 180, 1049-1059.	2.0	24
39	A comprehensive analysis of mechanical and morphological traits in temperate and tropical seagrass species. Marine Ecology - Progress Series, 2016, 551, 81-94.	1.9	45
40	Effects of logging and recruitment on community phylogenetic structure in 32 permanent forest plots of Kampong Thom, Cambodia. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140008.	4.0	31
41	A novel method of measuring leaf epidermis and mesophyll stiffness shows the ubiquitous nature of the sandwich structure of leaf laminas in broad-leaved angiosperm species. Journal of Experimental Botany, 2015, 66, 2487-2499.	4.8	65
42	Efficacy of generic allometric equations for estimating biomass: a test in Japanese natural forests. Ecological Applications, 2015, 25, 1433-1446.	3.8	56
43	Optimal stomatal behaviour around the world. Nature Climate Change, 2015, 5, 459-464.	18.8	397
44	Tradeâ€off between light interception efficiency and light use efficiency: implications for species coexistence in oneâ€sided light competition. Journal of Ecology, 2014, 102, 167-175.	4.0	82
45	Which is a better predictor of plant traits: temperature or precipitation?. Journal of Vegetation Science, 2014, 25, 1167-1180.	2.2	323
46	Essential Biodiversity Variables. Science, 2013, 339, 277-278.	12.6	1,150
47	Canopy structure of tropical and sub-tropical rain forests in relation to conifer dominance analysed with a portable LIDAR system. Annals of Botany, 2013, 112, 1899-1909.	2.9	13
48	Global legume diversity assessment: Concepts, key indicators, and strategies. Taxon, 2013, 62, 249-266.	0.7	85
49	Mechanisms underlying global temperatureâ€related patterns in leaf longevity. Global Ecology and Biogeography, 2013, 22, 982-993.	5.8	121
50	The importance of leaf cuticle for carbon economy and â€¨mechanical strength. New Phytologist, 2012, 196, 441-447.	7.3	43
51	Like a jungle sometimes: how leaves survive in the rainforest understory. New Phytologist, 2012, 195, 507-509.	7.3	1
52	Direct and indirect effects of tidal elevation on eelgrass decomposition. Marine Ecology - Progress Series, 2012, 456, 53-62.	1.9	23
53	Safety and streamlining of woody shoots in wind: an empirical study across 39 species in tropical Australia. New Phytologist, 2012, 193, 137-149.	7.3	41
54	Leaf-fracture properties correlated with nutritional traits in nine Australian seagrass species: implications for susceptibility to herbivory. Marine Ecology - Progress Series, 2012, 458, 89-102.	1.9	47

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55	Global patterns of leaf mechanical properties. Ecology Letters, 2011, 14, 301-312.	6.4	418
56	TRY â€“ a global database of plant traits. Global Change Biology, 2011, 17, 2905-2935.	9.5	2,002
57	Phenotypic and genetic differences in a perennial herb across a natural gradient of CO2 concentration. Oecologia, 2011, 165, 809-818.	2.0	33
58	Challenges to understand plant responses to wind. Plant Signaling and Behavior, 2011, 6, 1057-1059.	2.4	41
59	Effects of elevated CO2 concentration on seed production in C3 annual plants. Journal of Experimental Botany, 2011, 62, 1523-1530.	4.8	35
60	Effects of atmospheric CO2 concentration, irradiance, and soil nitrogen availability on leaf photosynthetic traits of Polygonum sachalinense around natural CO2 springs in northern Japan. Oecologia, 2010, 164, 41-52.	2.0	24
61	The relationship between stem biomechanics and wood density is modified by rainfall in 32 Australian woody plant species. New Phytologist, 2010, 185, 493-501.	7.3	66
62	Reconciling speciesâ€level vs plastic responses of evergreen leaf structure to light gradients: shade leaves punch above their weight. New Phytologist, 2010, 186, 429-438.	7.3	43
63	Wind and mechanical stimuli differentially affect leaf traits in Plantago major. New Phytologist, 2010, 188, 554-564.	7.3	96
64	Does leaf photosynthesis adapt to CO₂â€enriched environments? An experiment on plants originating from three natural CO₂ springs. New Phytologist, 2009, 182, 698-709.	7.3	45
65	Systemic induced resistance: a riskâ€spreading strategy in clonal plant networks?. New Phytologist, 2008, 179, 1142-1153.	7.3	48
66	Effects of Light and Nutrient Availability on Leaf Mechanical Properties of Plantago major: A Conceptual Approach. Annals of Botany, 2008, 101, 727-736.	2.9	100
67	Intraspecific variation in temperature dependence of gas exchange characteristics among Plantago asiatica ecotypes from different temperature regimes. New Phytologist, 2007, 176, 356-364.	7.3	39
68	Effect of elevated CO2 levels on leaf starch, nitrogen and photosynthesis of plants growing at three natural CO2 springs in Japan. Ecological Research, 2007, 22, 475-484.	1.5	31
69	Temperature acclimation of photosynthesis: mechanisms involved in the changes in temperature dependence of photosynthetic rate. Journal of Experimental Botany, 2006, 57, 291-302.	4.8	417
70	Nitrogen resorption from leaves under different growth irradiance in three deciduous woody species. Plant Ecology, 2005, 178, 29-37.	1.6	34
71	Plant responses to elevated CO2 concentration at different scales: leaf, whole plant, canopy, and population. Ecological Research, 2005, 20, 243-253.	1.5	38
72	The balance between RuBP carboxylation and RuBP regeneration: a mechanism underlying the interspecific variation in acclimation of photosynthesis to seasonal change in temperature. Functional Plant Biology, 2005, 32, 903.	2.1	82

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73	Seasonal change in the balance between capacities of RuBP carboxylation and RuBP regeneration affects CO2 response of photosynthesis in Polygonum cuspidatum. Journal of Experimental Botany, 2005, 56, 755-763.	4.8	97
74	Plant responses to elevated CO2 concentration at different scales: leaf, whole plant, canopy, and population. , 2005, , 3-13.		4
75	Allocation of nitrogen to cell walls decreases photosynthetic nitrogen-use efficiency. Functional Ecology, 2004, 18, 419-425.	3.6	250
76	Elevated CO 2 and nitrogen availability have interactive effects on canopy carbon gain in rice. New Phytologist, 2004, 161, 459-471.	7.3	52