# Yusuke Onoda

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/595908/publications.pdf

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 | TRY â€“ a global database of plant traits. Global Change Biology, 2011, 17, 2905-2935. | 9.5 | 2,002 |
| 2 | Essential Biodiversity Variables. Science, 2013, 339, 277-278. | 12.6 | 1,150 |
| 3 | TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188. | 9.5 | 1,038 |
| 4 | Plant functional traits have globally consistent effects on competition. Nature, 2016, 529, 204-207. | 27.8 | 655 |
| 5 | Core microbiomes for sustainable agroecosystems. Nature Plants, 2018, 4, 247-257. | 9.3 | 639 |
| 6 | Plant functional trait change across a warming tundra biome. Nature, 2018, 562, 57-62. | 27.8 | 451 |
| 7 | Global patterns of leaf mechanical properties. Ecology Letters, 2011, 14, 301-312. | 6.4 | 418 |
| 8 | 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 |
| 9 | Physiological and structural tradeoffs underlying the leaf economics spectrum. New Phytologist, 2017, 214, 1447-1463. | 7.3 | 412 |
| 10 | Optimal stomatal behaviour around the world. Nature Climate Change, 2015, 5, 459-464. | 18.8 | 397 |
| 11 | Which is a better predictor of plant traits: temperature or precipitation?. Journal of Vegetation Science, 2014, 25, 1167-1180. | 2.2 | 323 |
| 12 | Allocation of nitrogen to cell walls decreases photosynthetic nitrogen-use efficiency. Functional Ecology, 2004, 18, 419-425. | 3.6 | 250 |
| 13 | Acclimation and adaptation components of the temperature dependence of plant photosynthesis at the global scale. New Phytologist, 2019, 222, 768-784. | 7.3 | 171 |
| 14 | 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 |
| 15 | Mechanisms underlying global temperatureâ€related patterns in leaf longevity. Global Ecology and Biogeography, 2013, 22, 982-993. | 5.8 | 121 |
| 16 | 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 |
| 17 | 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 |
| 18 | Wind and mechanical stimuli differentially affect leaf traits in Plantago major. New Phytologist, 2010, 188, 554-564. | 7.3 | 96 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Global legume diversity assessment: Concepts, key indicators, and strategies. Taxon, 2013, 62, 249-266. | 0.7 | 85 |
| 20 | 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 |
| 21 | 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 |
| 22 | AusTraits, a curated plant trait database for the Australian flora. Scientific Data, 2021, 8, 254. | 5.3 | 73 |
| 23 | 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 |
| 24 | 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 |
| 25 | Efficacy of generic allometric equations for estimating biomass: a test in Japanese natural forests. Ecological Applications, 2015, 25, 1433-1446. | 3.8 | 56 |
| 26 | Elevated CO 2 and nitrogen availability have interactive effects on canopy carbon gain in rice. New Phytologist, 2004, 161, 459-471. | 7.3 | 52 |
| 27 | Global plant trait relationships extend to the climatic extremes of the tundra biome. Nature Communications, 2020, 11, 1351. | 12.8 | 52 |
| 28 | Systemic induced resistance: a riskâ€spreading strategy in clonal plant networks?. New Phytologist, 2008, 179, 1142-1153. | 7.3 | 48 |
| 29 | 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 |
| 30 | Does leaf photosynthesis adapt to CO<sub>2</sub>â€enriched environments? An experiment on plants originating from three natural CO<sub>2</sub> springs. New Phytologist, 2009, 182, 698-709. | 7.3 | 45 |
| 31 | 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 |
| 32 | 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 |
| 33 | The importance of leaf cuticle for carbon economy and â€¨mechanical strength. New Phytologist, 2012, 196, 441-447. | 7.3 | 43 |
| 34 | Challenges to understand plant responses to wind. Plant Signaling and Behavior, 2011, 6, 1057-1059. | 2.4 | 41 |
| 35 | 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 |
| 36 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | 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 |
| 38 | Plant responses to elevated CO2 concentration at different scales: leaf, whole plant, canopy, and population. Ecological Research, 2005, 20, 243-253. | 1.5 | 38 |
| 39 | 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 |
| 40 | Effects of elevated CO2 concentration on seed production in C3 annual plants. Journal of Experimental Botany, 2011, 62, 1523-1530. | 4.8 | 35 |
| 41 | Small and slow is safe: On the drought tolerance of tropical tree species. Global Change Biology, 2022, 28, 2622-2638. | 9.5 | 35 |
| 42 | Nitrogen resorption from leaves under different growth irradiance in three deciduous woody species. Plant Ecology, 2005, 178, 29-37. | 1.6 | 34 |
| 43 | Leaf Anatomy and Function. Advances in Photosynthesis and Respiration, 2018, , 97-139. | 1.0 | 34 |
| 44 | Phenotypic and genetic differences in a perennial herb across a natural gradient of CO2 concentration. Oecologia, 2011, 165, 809-818. | 2.0 | 33 |
| 45 | 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 |
| 46 | 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 |
| 47 | Influence of leaf trichomes on boundary layer conductance and gasâ€exchange characteristics in Metrosideros polymorpha (Myrtaceae). Biotropica, 2017, 49, 482-492. | 1.6 | 28 |
| 48 | 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 |
| 49 | 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 |
| 50 | 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 |
| 51 | Direct and indirect effects of tidal elevation on eelgrass decomposition. Marine Ecology - Progress Series, 2012, 456, 53-62. | 1.9 | 23 |
| 52 | 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 |
| 53 | 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 |
| 54 | Does the leaf economic spectrum hold within plant functional types? A Bayesian multivariate trait metaâ€analysis. Ecological Applications, 2020, 30, e02064. | 3.8 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Simulating functional diversity of European natural forests along climatic gradients. Journal of Biogeography, 2020, 47, 1069-1085. | 3.0 | 19 |
| 56 | The acquisitiveâ€“conservative axis of leaf trait variation emerges even in homogeneous environments. Annals of Botany, 2022, 129, 709-722. | 2.9 | 18 |
| 57 | Global patterns of leaf construction traits and their covariation along climate and soil environmental gradients. New Phytologist, 2021, 232, 1648-1660. | 7.3 | 18 |
| 58 | 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 |
| 59 | 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 |
| 60 | 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 |
| 61 | 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 |
| 62 | 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 |
| 63 | The Leaf Economics Spectrum and its Underlying Physiological and Anatomical Principles. Advances in Photosynthesis and Respiration, 2018, , 451-471. | 1.0 | 8 |
| 64 | 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 |
| 65 | 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 |
| 66 | 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 |
| 67 | 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 |
| 68 | 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 |
| 69 | 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 |
| 70 | 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 |
| 71 | Plant responses to elevated CO2 concentration at different scales: leaf, whole plant, canopy, and population. , 2005, , 3-13. | | 4 |
| 72 | Traitâ€“abundance relationships in tree communities along temperature and successional gradients. Journal of Vegetation Science, 2020, 31, 551-560. | 2.2 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | 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 |
| 74 | Decadesâ€long effects of high CO<sub>2</sub> concentration on soil nitrogen dynamics at a natural CO<sub>2</sub> spring. Ecological Research, 2017, 32, 215-225. | 1.5 | 3 |
| 75 | Demography and selection analysis of the incipient adaptive radiation of a Hawaiian woody species. PLoS Genetics, 2022, 18, e1009987. | 3.5 | 3 |
| 76 | Like a jungle sometimes: how leaves survive in the rainforest understory. New Phytologist, 2012, 195, 507-509. | 7.3 | 1 |