

Kouki Hikosaka

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8016059/kouki-hikosaka-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

144
papers

14,792
citations

46
h-index

121
g-index

155
ext. papers

17,247
ext. citations

4.8
avg, IF

6.41
L-index

#	Paper	IF	Citations
144	The worldwide leaf economics spectrum. <i>Nature</i> , 2004 , 428, 821-7	50.4	4915
143	Assessing the generality of global leaf trait relationships. <i>New Phytologist</i> , 2005 , 166, 485-96	9.8	1343
142	Modulation of leaf economic traits and trait relationships by climate. <i>Global Ecology and Biogeography</i> , 2005 , 14, 411-421	6.1	535
141	Temperature response of photosynthesis in C3, C4, and CAM plants: temperature acclimation and temperature adaptation. <i>Photosynthesis Research</i> , 2014 , 119, 101-17	3.7	508
140	A global meta-analysis of the relative extent of intraspecific trait variation in plant communities. <i>Ecology Letters</i> , 2015 , 18, 1406-19	10	485
139	Temperature acclimation of photosynthesis: mechanisms involved in the changes in temperature dependence of photosynthetic rate. <i>Journal of Experimental Botany</i> , 2006 , 57, 291-302	7	328
138	Photosynthesis or persistence: nitrogen allocation in leaves of evergreen and deciduous <i>Quercus</i> species. <i>Plant, Cell and Environment</i> , 2004 , 27, 1047-1054	8.4	316
137	A model of the acclimation of photosynthesis in the leaves of C3 plants to sun and shade with respect to nitrogen use. <i>Plant, Cell and Environment</i> , 1995 , 18, 605-618	8.4	305
136	Interspecific difference in the photosynthesis-nitrogen relationship: patterns, physiological causes, and ecological importance. <i>Journal of Plant Research</i> , 2004 , 117, 481-94	2.6	303
135	Comparative ecophysiology of leaf and canopy photosynthesis. <i>Plant, Cell and Environment</i> , 1995 , 18, 1111-1128	8.4	301
134	Optimal stomatal behaviour around the world. <i>Nature Climate Change</i> , 2015 , 5, 459-464	21.4	264
133	Does the photosynthetic light-acclimation need change in leaf anatomy?. <i>Plant, Cell and Environment</i> , 2003 , 26, 505-512	8.4	240
132	Physiological and structural tradeoffs underlying the leaf economics spectrum. <i>New Phytologist</i> , 2017 , 214, 1447-1463	9.8	222
131	Allocation of nitrogen to cell walls decreases photosynthetic nitrogen-use efficiency. <i>Functional Ecology</i> , 2004 , 18, 419-425	5.6	205
130	Leaf anatomy as a constraint for photosynthetic acclimation: differential responses in leaf anatomy to increasing growth irradiance among three deciduous trees. <i>Plant, Cell and Environment</i> , 2005 , 28, 916-927	8.4	198
129	Effects of leaf age, nitrogen nutrition and photon flux density on the distribution of nitrogen among leaves of a vine (<i>Ipomoea tricolor</i> Cav.) grown horizontally to avoid mutual shading of leaves. <i>Oecologia</i> , 1994 , 97, 451-457	2.9	196
128	Leaf canopy as a dynamic system: ecophysiology and optimality in leaf turnover. <i>Annals of Botany</i> , 2005 , 95, 521-33	4.1	191

127	The excess light energy that is neither utilized in photosynthesis nor dissipated by photoprotective mechanisms determines the rate of photoinactivation in photosystem II. <i>Plant and Cell Physiology</i> , 2003 , 44, 318-25	4.9	140
126	Nitrogen Partitioning among Photosynthetic Components and its Consequence in Sun and Shade Plants. <i>Functional Ecology</i> , 1996 , 10, 335	5.6	133
125	Phenotypic plasticity in photosynthetic temperature acclimation among crop species with different cold tolerances. <i>Plant Physiology</i> , 2010 , 152, 388-99	6.6	129
124	Balancing carboxylation and regeneration of ribulose-1,5- biphosphate in leaf photosynthesis: temperature acclimation of an evergreen tree, <i>Quercus myrsinaefolia</i> . <i>Plant, Cell and Environment</i> , 1999 , 22, 841-849	8.4	117
123	Photosynthetic nitrogen-use efficiency in leaves of woody and herbaceous species. <i>Functional Ecology</i> , 1998 , 12, 896-905	5.6	106
122	Acclimation and adaptation components of the temperature dependence of plant photosynthesis at the global scale. <i>New Phytologist</i> , 2019 , 222, 768-784	9.8	99
121	The role of Rubisco and cell walls in the interspecific variation in photosynthetic capacity. <i>Oecologia</i> , 2009 , 160, 443-51	2.9	94
120	A model of dynamics of leaves and nitrogen in a plant canopy: an integration of canopy photosynthesis, leaf life span, and nitrogen use efficiency. <i>American Naturalist</i> , 2003 , 162, 149-64	3.7	94
119	Leaf nitrogen distribution in relation to leaf age and photon flux density in dominant and subordinate plants in dense stands of a dicotyledonous herb. <i>Oecologia</i> , 1998 , 113, 314-324	2.9	92
118	Leaf angle as a strategy for light competition: Optimal and evolutionarily stable light-extinction coefficient within a leaf canopy. <i>Ecoscience</i> , 1997 , 4, 501-507	1.1	88
117	Light acquisition and use by individuals competing in a dense stand of an annual herb, <i>Xanthium canadense</i> . <i>Oecologia</i> , 1999 , 118, 388-396	2.9	87
116	Effects of leaf age, nitrogen nutrition and photon flux density on the organization of the photosynthetic apparatus in leaves of a vine (<i>Ipomoea tricolor</i> Cav.) grown horizontally to avoid mutual shading of leaves. <i>Planta</i> , 1996 , 198, 144	4.7	87
115	Seasonal change in the balance between capacities of RuBP carboxylation and RuBP regeneration affects CO ₂ response of photosynthesis in <i>Polygonum cuspidatum</i> . <i>Journal of Experimental Botany</i> , 2005 , 56, 755-63	7	81
114	Cold-tolerant crop species have greater temperature homeostasis of leaf respiration and photosynthesis than cold-sensitive species. <i>Plant and Cell Physiology</i> , 2009 , 50, 203-15	4.9	77
113	The balance between RuBP carboxylation and RuBP regeneration: a mechanism underlying the interspecific variation in acclimation of photosynthesis to seasonal change in temperature. <i>Functional Plant Biology</i> , 2005 , 32, 903-910	2.7	75
112	Global dependence of field-observed leaf area index in woody species on climate: a systematic review. <i>Global Ecology and Biogeography</i> , 2014 , 23, 274-285	6.1	70
111	Modelling Optimal Temperature Acclimation of the Photosynthetic Apparatus in C3Plants with Respect to Nitrogen Use. <i>Annals of Botany</i> , 1997 , 80, 721-730	4.1	70
110	Leaf anatomy and light acclimation in woody seedlings after gap formation in a cool-temperate deciduous forest. <i>Oecologia</i> , 2006 , 149, 571-82	2.9	68

109	Nitrogen partitioning in the photosynthetic apparatus of <i>Plantago asiatica</i> leaves grown under different temperature and light conditions: similarities and differences between temperature and light acclimation. <i>Plant and Cell Physiology</i> , 2005 , 46, 1283-90	4.9	62
108	Photosynthetic rates and partitioning of absorbed light energy in photoinhibited leaves. <i>Physiologia Plantarum</i> , 2004 , 121, 699-708	4.6	60
107	Light partitioning among species and species replacement in early successional grasslands. <i>Journal of Vegetation Science</i> , 2002 , 13, 615-626	3.1	55
106	Plants in a crowded stand regulate their height growth so as to maintain similar heights to neighbours even when they have potential advantages in height growth. <i>Annals of Botany</i> , 2011 , 108, 207-14	4.1	54
105	Photosynthesis–nitrogen relationships in species at different altitudes on Mount Kinabalu, Malaysia. <i>Ecological Research</i> , 2002 , 17, 305-313	1.9	54
104	Photosynthetic nitrogen-use efficiency in evergreen broad-leaved woody species coexisting in a warm-temperate forest. <i>Tree Physiology</i> , 2000 , 20, 1249-1254	4.2	53
103	Optimal nitrogen distribution within a leaf canopy under direct and diffuse light. <i>Plant, Cell and Environment</i> , 2014 , 37, 2077-85	8.4	52
102	Resource allocation to vegetative and reproductive growth in relation to mast seeding in <i>Fagus crenata</i> . <i>Forest Ecology and Management</i> , 2006 , 229, 228-233	3.9	52
101	Leaf-level nitrogen-use efficiency of canopy and understorey species in a beech forest. <i>Functional Ecology</i> , 2002 , 16, 826-834	5.6	48
100	Seasonal changes in temperature dependence of photosynthetic rate in rice under a free-air CO ₂ enrichment. <i>Annals of Botany</i> , 2006 , 97, 549-57	4.1	47
99	Leaf lifespan and lifetime carbon balance of individual leaves in a stand of an annual herb, <i>Xanthium canadense</i> . <i>New Phytologist</i> , 2006 , 172, 104-16	9.8	47
98	A meta-analysis of leaf nitrogen distribution within plant canopies. <i>Annals of Botany</i> , 2016 , 118, 239-47	4.1	45
97	Seasonal changes in photosynthesis, nitrogen content and nitrogen partitioning in <i>Lindera umbellata</i> leaves grown in high or low irradiance. <i>Tree Physiology</i> , 2006 , 26, 1315-23	4.2	43
96	Seasonal changes in light and temperature affect the balance between light harvesting and light utilisation components of photosynthesis in an evergreen understory shrub. <i>Oecologia</i> , 2005 , 143, 501-8 ^{2.9}	4.2	42
95	Nitrogen uptake and use by competing individuals in a <i>Xanthium canadense</i> stand. <i>Oecologia</i> , 2001 , 126, 174-181	2.9	42
94	Leaf and canopy photosynthesis of C ₃ plants at elevated CO ₂ in relation to optimal partitioning of nitrogen among photosynthetic components: theoretical prediction. <i>Ecological Modelling</i> , 1998 , 106, 247-259	3	40
93	Seasonal changes in the temperature response of photosynthesis in canopy leaves of <i>Quercus crispula</i> in a cool-temperate forest. <i>Tree Physiology</i> , 2007 , 27, 1035-41	4.2	40
92	A Genome Scan for Genes Underlying Microgeographic-Scale Local Adaptation in a Wild <i>Arabidopsis</i> Species. <i>PLoS Genetics</i> , 2015 , 11, e1005361	6	38

91	Does leaf photosynthesis adapt to CO ₂ -enriched environments? An experiment on plants originating from three natural CO ₂ springs. <i>New Phytologist</i> , 2009 , 182, 698-709	9.8	37
90	Effects of virus infection and growth irradiance on fitness components and photosynthetic properties of <i>Eupatorium makinoi</i> (Compositae). <i>American Journal of Botany</i> , 1997 , 84, 823-829	2.7	35
89	Intraspecific variation in temperature dependence of gas exchange characteristics among <i>Plantago asiatica</i> ecotypes from different temperature regimes. <i>New Phytologist</i> , 2007 , 176, 356-364	9.8	35
88	Biomass allocation and leaf chemical defence in defoliated seedlings of <i>Quercus serrata</i> with respect to carbon-nitrogen balance. <i>Annals of Botany</i> , 2005 , 95, 1025-32	4.1	34
87	Mechanisms underlying interspecific variation in photosynthetic capacity across wild plant species. <i>Plant Biotechnology</i> , 2010 , 27, 223-229	1.3	33
86	Does leaf shedding increase the whole-plant carbon gain despite some nitrogen being lost with shedding?. <i>New Phytologist</i> , 2008 , 178, 617-24	9.8	33
85	Elevated CO ₂ concentration, nitrogen use, and seed production in annual plants. <i>Global Change Biology</i> , 2007 , 13, 2161-2170	11.4	32
84	Plant responses to elevated CO ₂ concentration at different scales: leaf, whole plant, canopy, and population. <i>Ecological Research</i> , 2005 , 20, 243-253	1.9	32
83	Habitat filtering determines the functional niche occupancy of plant communities worldwide. <i>Journal of Ecology</i> , 2018 , 106, 1001-1009	6	31
82	Contribution of photosynthetic electron transport, heat dissipation, and recovery of photoinactivated photosystem II to photoprotection at different temperatures in <i>Chenopodium album</i> leaves. <i>Plant and Cell Physiology</i> , 2003 , 44, 828-35	4.9	30
81	The leaf anatomy of a broad-leaved evergreen allows an increase in leaf nitrogen content in winter. <i>Physiologia Plantarum</i> , 2009 , 136, 299-309	4.6	29
80	Effects of elevated CO ₂ concentration on seed production in C ₃ annual plants. <i>Journal of Experimental Botany</i> , 2011 , 62, 1523-30	7	29
79	Nitrogen resorption and protein degradation during leaf senescence in <i>Chenopodium album</i> grown in different light and nitrogen conditions. <i>Functional Plant Biology</i> , 2007 , 34, 409-417	2.7	29
78	Light-acquisition and use of individuals as influenced by elevated CO ₂ in even-aged monospecific stands of <i>Chenopodium album</i> . <i>Functional Ecology</i> , 2003 , 17, 786-795	5.6	29
77	Effect of elevated CO ₂ levels on leaf starch, nitrogen and photosynthesis of plants growing at three natural CO ₂ springs in Japan. <i>Ecological Research</i> , 2007 , 22, 475-484	1.9	28
76	Nitrogen resorption from leaves under different growth irradiance in three deciduous woody species. <i>Plant Ecology</i> , 2005 , 178, 29-37	1.7	27
75	Optimal use of leaf nitrogen explains seasonal changes in leaf nitrogen content of an understorey evergreen shrub. <i>Annals of Botany</i> , 2011 , 108, 529-36	4.1	26
74	Light interception in species with different functional groups coexisting in moorland plant communities. <i>Oecologia</i> , 2010 , 164, 591-9	2.9	26

73	Costs and benefits of photosynthetic light acclimation by tree seedlings in response to gap formation. <i>Oecologia</i> , 2008 , 155, 665-75	2.9	25
72	Increase in leaf mass per area benefits plant growth at elevated CO ₂ concentration. <i>Annals of Botany</i> , 2003 , 91, 905-14	4.1	25
71	Photoinactivation and recovery of photosystem II in <i>Chenopodium album</i> leaves grown at different levels of irradiance and nitrogen availability. <i>Functional Plant Biology</i> , 2002 , 29, 787-795	2.7	25
70	A paradox of leaf-trait convergence: why is leaf nitrogen concentration higher in species with higher photosynthetic capacity?. <i>Journal of Plant Research</i> , 2009 , 122, 245-51	2.6	24
69	Optimality of nitrogen distribution among leaves in plant canopies. <i>Journal of Plant Research</i> , 2016 , 129, 299-311	2.6	24
68	Vulnerability of moorland plant communities to environmental change: consequences of realistic species loss on functional diversity. <i>Journal of Applied Ecology</i> , 2014 , 51, 299-308	5.8	23
67	Reproductive allocation of an annual, <i>Xanthium canadense</i> , at an elevated carbon dioxide concentration. <i>Oecologia</i> , 2003 , 137, 1-9	2.9	23
66	Physiological validation of photochemical reflectance index (PRI) as a photosynthetic parameter using <i>Arabidopsis thaliana</i> mutants. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 498, 52-57	3.4	21
65	Effects of seasonal change and experimental warming on the temperature dependence of photosynthesis in the canopy leaves of <i>Quercus serrata</i> . <i>Tree Physiology</i> , 2016 , 36, 1283-1295	4.2	21
64	Modeling Canopy Photosynthesis. <i>Advances in Photosynthesis and Respiration</i> , 2016 , 239-268	1.7	20
63	Phenotypic and genetic differences in a perennial herb across a natural gradient of CO ₂ concentration. <i>Oecologia</i> , 2011 , 165, 809-18	2.9	20
62	An evolutionary game of leaf dynamics and its consequences for canopy structure. <i>Functional Ecology</i> , 2012 , 26, 1024-1032	5.6	19
61	Not only light quality but also mechanical stimuli are involved in height convergence in crowded <i>Chenopodium album</i> stands. <i>New Phytologist</i> , 2012 , 195, 803-811	9.8	19
60	Effects of atmospheric CO ₂ concentration, irradiance, and soil nitrogen availability on leaf photosynthetic traits of <i>Polygonum sachalinense</i> around natural CO ₂ springs in northern Japan. <i>Oecologia</i> , 2010 , 164, 41-52	2.9	19
59	Relationships between photosynthetic activity and silica accumulation with ages of leaf in <i>Sasa veitchii</i> (Poaceae, Bambusoideae). <i>Annals of Botany</i> , 2008 , 101, 463-8	4.1	19
58	Leaf discs floated on water are different from intact leaves in photosynthesis and photoinhibition. <i>Photosynthesis Research</i> , 2002 , 72, 65-70	3.7	19
57	Dynamics of leaf area and nitrogen in the canopy of an annual herb, <i>Xanthium canadense</i> . <i>Oecologia</i> , 2005 , 143, 517-26	2.9	19
56	A simple formulation of interaction between individuals competing for light in a monospecific stand. <i>Functional Ecology</i> , 2001 , 15, 642-646	5.6	19

55	Functional differentiation in UV-B-induced DNA damage and growth inhibition between highland and lowland ecotypes of two <i>Arabidopsis</i> species. <i>Environmental and Experimental Botany</i> , 2016 , 131, 110-119	5.9	19
54	Is UV-induced DNA damage greater at higher elevation?. <i>American Journal of Botany</i> , 2014 , 101, 796-802.	2.7	17
53	Nestedness and niche-based species loss in moorland plant communities. <i>Oikos</i> , 2012 , 121, 1783-1790	4	17
52	Homeostasis of the temperature sensitivity of respiration over a range of growth temperatures indicated by a modified Arrhenius model. <i>New Phytologist</i> , 2015 , 207, 34-42	9.8	17
51	Modeling Leaf Gas Exchange. <i>Advances in Photosynthesis and Respiration</i> , 2016 , 61-100	1.7	16
50	Dividing the pie: A quantitative review on plant density responses. <i>Plant, Cell and Environment</i> , 2021 , 44, 1072-1094	8.4	16
49	The effect of interspecific variation in photosynthetic plasticity on 4-year growth rate and 8-year survival of understorey tree seedlings in response to gap formations in a cool-temperate deciduous forest. <i>Tree Physiology</i> , 2017 , 37, 1113-1127	4.2	15
48	Cost-benefit relationships in fronds emerging at different times in a deciduous fern, <i>Pteridium aquilinum</i> . <i>Canadian Journal of Botany</i> , 2004 , 82, 521-527		15
47	Effects of elevated CO ₂ on the size structure in even-aged monospecific stands of <i>Chenopodium album</i> . <i>Global Change Biology</i> , 2003 , 9, 619-629	11.4	15
46	Variations in leaf economics spectrum traits for an evergreen coniferous species: Tree size dominates over environment factors. <i>Functional Ecology</i> , 2020 , 34, 458-467	5.6	15
45	Nitrogen Distribution in Leaf Canopies of High-Yielding Rice Cultivar Takanari. <i>Crop Science</i> , 2017 , 57, 2080-2088	2.4	14
44	Diversity partitioning of moorland plant communities across hierarchical spatial scales. <i>Biodiversity and Conservation</i> , 2012 , 21, 1577-1588	3.4	14
43	Needle traits of an evergreen, coniferous shrub growing at wind-exposed and protected sites in a mountain region: does <i>Pinus pumila</i> produce needles with greater mass per area under wind-stress conditions?. <i>Plant Biology</i> , 2009 , 11 Suppl 1, 94-100	3.7	14
42	Reproductive yield of individuals competing for light in a dense stand of an annual, <i>Xanthium canadense</i> . <i>Oecologia</i> , 2008 , 157, 185-95	2.9	14
41	Ultraviolet-B-induced DNA damage and ultraviolet-B tolerance mechanisms in species with different functional groups coexisting in subalpine moorlands. <i>Oecologia</i> , 2016 , 181, 1069-82	2.9	13
40	Leaf-trait responses to environmental gradients in moorland communities: contribution of intraspecific variation, species replacement and functional group replacement. <i>Ecological Research</i> , 2014 , 29, 607-617	1.9	12
39	Interactions between elevated CO ₂ and N ₂ -fixation determine soybean yield—test using a non-nodulated mutant. <i>Plant and Soil</i> , 2010 , 330, 163-172	4.2	11
38	Variations in Species Composition of Moorland Plant Communities Along Environmental Gradients Within a Subalpine Zone in Northern Japan. <i>Wetlands</i> , 2013 , 33, 269-277	1.7	10

37	Modeling leaf CO assimilation and Photosystem II photochemistry from chlorophyll fluorescence and the photochemical reflectance index. <i>Plant, Cell and Environment</i> , 2019 , 42, 730-739	8.4	10
36	Which plant trait explains the variations in relative growth rate and its response to elevated carbon dioxide concentration among <i>Arabidopsis thaliana</i> ecotypes derived from a variety of habitats?. <i>Oecologia</i> , 2016 , 180, 865-76	2.9	9
35	<i>Polygonum sachalinense</i> alters the balance between capacities of regeneration and carboxylation of ribulose-1,5-bisphosphate in response to growth CO ₂ increment but not the nitrogen allocation within the photosynthetic apparatus. <i>Physiologia Plantarum</i> , 2012 , 146, 404-12	4.6	9
34	Environmental dependence of population dynamics and height growth of a subalpine conifer across its vertical distribution: an approach using high-resolution aerial photographs. <i>Global Change Biology</i> , 2011 , 17, 3431-3438	11.4	9
33	Effects of elevated CO ₂ on leaf area dynamics in nodulating and non-nodulating soybean stands. <i>Plant and Soil</i> , 2013 , 373, 627-639	4.2	8
32	Why does <i>Viola hondoensis</i> (Violaceae) shed its winter leaves in spring?. <i>American Journal of Botany</i> , 2010 , 97, 1944-50	2.7	8
31	Seasonal change in light partitioning among coexisting species of different functional groups along elevation gradient in subalpine moorlands. <i>New Phytologist</i> , 2014 , 204, 913-23	9.8	7
30	Limitation in the Photosynthetic Acclimation to High Temperature in Canopy Leaves of <i>Quercus serrata</i> . <i>Frontiers in Forests and Global Change</i> , 2019 , 2,	3.7	6
29	Carbon balance in a monospecific stand of an annual herb <i>Chenopodium album</i> at an elevated CO ₂ concentration. <i>Plant Ecology</i> , 2009 , 203, 33-44	1.7	6
28	Photosynthesis, chlorophyll fluorescence and photochemical reflectance index in photoinhibited leaves. <i>Functional Plant Biology</i> , 2021 , 48, 815-826	2.7	6
27	<i>Pinus pumila</i> Photosynthesis Is Suppressed by Water Stress in a Wind-Exposed Mountain Site. <i>Arctic, Antarctic, and Alpine Research</i> , 2013 , 45, 229-237	1.8	5
26	Respiration and reproductive effort in <i>Xanthium canadense</i> . <i>Annals of Botany</i> , 2005 , 96, 81-9	4.1	5
25	Linking remote sensing parameters to CO assimilation rates at a leaf scale. <i>Journal of Plant Research</i> , 2021 , 134, 695-711	2.6	5
24	Nitrogen resorption in senescing leaf blades of rice exposed to free-air CO ₂ enrichment (FACE) under different N fertilization levels. <i>Plant and Soil</i> , 2017 , 418, 231-240	4.2	4
23	Plasticity of functional traits and optimality of biomass allocation in elevational ecotypes of <i>Arabidopsis halleri</i> grown at different soil nutrient availabilities. <i>Journal of Plant Research</i> , 2019 , 132, 237-249	2.6	4
22	Mutant selection in the self-incompatible plant radish (<i>L.</i>) using two-step TILLING. <i>Breeding Science</i> , 2017 , 67, 268-276	2	4
21	Light partitioning among species and species replacement in early successional grasslands 2002 , 13, 615		4
20	Corrected photochemical reflectance index (PRI) is an effective tool for detecting environmental stresses in agricultural crops under light conditions. <i>Journal of Plant Research</i> , 2021 , 134, 683-694	2.6	4

19	The role of biomass allocation between lamina and petioles in a game of light competition in a dense stand of an annual plant. <i>Annals of Botany</i> , 2018 , 121, 1055-1064	4.1	3
18	Dependence of functional traits related to growth rates and their CO response on multiple habitat climate factors across <i>Arabidopsis thaliana</i> populations. <i>Journal of Plant Research</i> , 2018 , 131, 987-999	2.6	3
17	Plant responses to elevated CO2 concentration at different scales: leaf, whole plant, canopy, and population 2005 , 3-13		3
16	The latitudinal and altitudinal variations in the biochemical mechanisms of temperature dependence of photosynthesis within <i>Fallopia japonica</i> . <i>Environmental and Experimental Botany</i> , 2021 , 181, 104248	5.9	3
15	Intraspecific variations in leaf traits, productivity and resource use efficiencies in the dominant species of subalpine evergreen coniferous and deciduous broad-leaved forests along the altitudinal gradient. <i>Journal of Ecology</i> , 2021 , 109, 1804-1818	6	3
14	Decades-long effects of high CO2 concentration on soil nitrogen dynamics at a natural CO2 spring. <i>Ecological Research</i> , 2017 , 32, 215-225	1.9	2
13	Plant-plant interactions mediate the plastic and genotypic response of <i>Plantago asiatica</i> to CO2: an experiment with plant populations from naturally high CO2 areas. <i>Annals of Botany</i> , 2016 , 117, 1197-2074	4.1	2
12	Temperature-related cline in the root mass fraction in East Asian wild radish along the Japanese archipelago. <i>Breeding Science</i> , 2020 , 70, 321-330	2	2
11	Estimating leaf photosynthesis of C plants grown under different environments from pigment index, photochemical reflectance index, and chlorophyll fluorescence. <i>Photosynthesis Research</i> , 2021 , 148, 33-46	3.7	2
10	Functional shifts in leaves of woody invaders of deciduous forests between their home and away ranges. <i>Tree Physiology</i> , 2019 , 39, 1551-1560	4.2	1
9	Terrestrial Ecosystems in Monsoon Asia: Scaling up from Shoot Module to Watershed 2007 , 285-296		1
8	Influences of Climate Change on the Distribution and Population Dynamics of Subalpine Coniferous Forest in the Hakkoda Mountains, Northern Japan. <i>Structure and Function of Mountain Ecosystems in Japan</i> , 2016 , 1-15	0.1	1
7	Plant size, environmental factors and functional traits jointly shape the stem radius growth rate in an evergreen coniferous species across ontogenetic stages. <i>Journal of Plant Ecology</i> , 2021 , 14, 257-269	1.7	1
6	Potential extinction debt due to habitat loss and fragmentation in subalpine moorland ecosystems. <i>Plant Ecology</i> , 2021 , 222, 445-457	1.7	1
5	Photosynthetic and Photosynthesis-Related Responses of Japanese Native Trees to CO2: Results from Phytotrons, Open-Top Chambers, Natural CO2 Springs, and Free-Air CO2 Enrichment. <i>Advances in Photosynthesis and Respiration</i> , 2018 , 425-449	1.7	1
4	Leaf density and chemical composition explain variation in leaf mass area with spectral composition among 11 widespread forbs in a common garden. <i>Physiologia Plantarum</i> , 2021 , 173, 698-708	4.6	0
3	Enhanced growth rate under elevated CO conditions was observed for transgenic lines of genes identified by intraspecific variation analyses in <i>Arabidopsis thaliana</i> .. <i>Plant Molecular Biology</i> , 2022 , 1	4.6	0
2	Resource Allocation and Trade-Offs in Carbon Gain of Leaves Under Changing Environment. <i>Plant Ecophysiology</i> , 2014 , 1-24		

- 1 Trait-Based Approaches for Understanding Species Niche, Coexistence, and Functional Diversity in Subalpine Moorlands. *Structure and Function of Mountain Ecosystems in Japan*, **2016**, 17-40 0.1