

# Kouki Hikosaka

## List of Publications by Year in Descending Order

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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.

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	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> , <b>2022</b> , 1	4.6	0
143	Estimating leaf photosynthesis of C plants grown under different environments from pigment index, photochemical reflectance index, and chlorophyll fluorescence. <i>Photosynthesis Research</i> , <b>2021</b> , 148, 33-46	3.7	2
142	Linking remote sensing parameters to CO assimilation rates at a leaf scale. <i>Journal of Plant Research</i> , <b>2021</b> , 134, 695-711	2.6	5
141	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> , <b>2021</b> , 134, 683-694	2.6	4
140	Dividing the pie: A quantitative review on plant density responses. <i>Plant, Cell and Environment</i> , <b>2021</b> , 44, 1072-1094	8.4	16
139	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> , <b>2021</b> , 14, 257-269	1.7	1
138	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> , <b>2021</b> , 181, 104248	5.9	3
137	Potential extinction debt due to habitat loss and fragmentation in subalpine moorland ecosystems. <i>Plant Ecology</i> , <b>2021</b> , 222, 445-457	1.7	1
136	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> , <b>2021</b> , 109, 1804-1818	6	3
135	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> , <b>2021</b> , 173, 698-708	4.6	0
134	Photosynthesis, chlorophyll fluorescence and photochemical reflectance index in photoinhibited leaves. <i>Functional Plant Biology</i> , <b>2021</b> , 48, 815-826	2.7	6
133	Temperature-related cline in the root mass fraction in East Asian wild radish along the Japanese archipelago. <i>Breeding Science</i> , <b>2020</b> , 70, 321-330	2	2
132	Variations in leaf economics spectrum traits for an evergreen coniferous species: Tree size dominates over environment factors. <i>Functional Ecology</i> , <b>2020</b> , 34, 458-467	5.6	15
131	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> , <b>2019</b> , 132, 237-249	2.6	4
130	Functional shifts in leaves of woody invaders of deciduous forests between their home and away ranges. <i>Tree Physiology</i> , <b>2019</b> , 39, 1551-1560	4.2	1
129	Limitation in the Photosynthetic Acclimation to High Temperature in Canopy Leaves of <i>Quercus serrata</i> . <i>Frontiers in Forests and Global Change</i> , <b>2019</b> , 2,	3.7	6
128	Acclimation and adaptation components of the temperature dependence of plant photosynthesis at the global scale. <i>New Phytologist</i> , <b>2019</b> , 222, 768-784	9.8	99

127	Modeling leaf CO assimilation and Photosystem II photochemistry from chlorophyll fluorescence and the photochemical reflectance index. <i>Plant, Cell and Environment</i> , <b>2019</b> , 42, 730-739	8.4	10
126	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> , <b>2018</b> , 121, 1055-1064	4.1	3
125	Physiological validation of photochemical reflectance index (PRI) as a photosynthetic parameter using <i>Arabidopsis thaliana</i> mutants. <i>Biochemical and Biophysical Research Communications</i> , <b>2018</b> , 498, 52-57	3.4	21
124	Habitat filtering determines the functional niche occupancy of plant communities worldwide. <i>Journal of Ecology</i> , <b>2018</b> , 106, 1001-1009	6	31
123	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> , <b>2018</b> , 131, 987-999	2.6	3
122	Photosynthetic and Photosynthesis-Related Responses of Japanese Native Trees to CO <sub>2</sub> : Results from Phytotrons, Open-Top Chambers, Natural CO <sub>2</sub> Springs, and Free-Air CO <sub>2</sub> Enrichment. <i>Advances in Photosynthesis and Respiration</i> , <b>2018</b> , 425-449	1.7	1
121	Decades-long effects of high CO <sub>2</sub> concentration on soil nitrogen dynamics at a natural CO <sub>2</sub> spring. <i>Ecological Research</i> , <b>2017</b> , 32, 215-225	1.9	2
120	Physiological and structural tradeoffs underlying the leaf economics spectrum. <i>New Phytologist</i> , <b>2017</b> , 214, 1447-1463	9.8	222
119	Nitrogen resorption in senescing leaf blades of rice exposed to free-air CO <sub>2</sub> enrichment (FACE) under different N fertilization levels. <i>Plant and Soil</i> , <b>2017</b> , 418, 231-240	4.2	4
118	Mutant selection in the self-incompatible plant radish ( <i>L.</i> ) using two-step TILLING. <i>Breeding Science</i> , <b>2017</b> , 67, 268-276	2	4
117	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> , <b>2017</b> , 37, 1113-1127	4.2	15
116	Nitrogen Distribution in Leaf Canopies of High-Yielding Rice Cultivar Takanari. <i>Crop Science</i> , <b>2017</b> , 57, 2080-2088	2.4	14
115	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> , <b>2016</b> , 180, 865-76	2.9	9
114	Ultraviolet-B-induced DNA damage and ultraviolet-B tolerance mechanisms in species with different functional groups coexisting in subalpine moorlands. <i>Oecologia</i> , <b>2016</b> , 181, 1069-82	2.9	13
113	Plant-plant interactions mediate the plastic and genotypic response of <i>Plantago asiatica</i> to CO <sub>2</sub> : an experiment with plant populations from naturally high CO <sub>2</sub> areas. <i>Annals of Botany</i> , <b>2016</b> , 117, 1197-2074.1	4.1	2
112	A meta-analysis of leaf nitrogen distribution within plant canopies. <i>Annals of Botany</i> , <b>2016</b> , 118, 239-47	4.1	45
111	Modeling Leaf Gas Exchange. <i>Advances in Photosynthesis and Respiration</i> , <b>2016</b> , 61-100	1.7	16
110	Modeling Canopy Photosynthesis. <i>Advances in Photosynthesis and Respiration</i> , <b>2016</b> , 239-268	1.7	20

109	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> , <b>2016</b> , 1-15	0.1	1
108	Trait-Based Approaches for Understanding Species Niche, Coexistence, and Functional Diversity in Subalpine Moorlands. <i>Structure and Function of Mountain Ecosystems in Japan</i> , <b>2016</b> , 17-40	0.1	
107	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> , <b>2016</b> , 36, 1283-1295	4.2	21
106	Optimality of nitrogen distribution among leaves in plant canopies. <i>Journal of Plant Research</i> , <b>2016</b> , 129, 299-311	2.6	24
105	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> , <b>2016</b> , 131, 110-119	5.9	19
104	Optimal stomatal behaviour around the world. <i>Nature Climate Change</i> , <b>2015</b> , 5, 459-464	21.4	264
103	A global meta-analysis of the relative extent of intraspecific trait variation in plant communities. <i>Ecology Letters</i> , <b>2015</b> , 18, 1406-19	10	485
102	Homeostasis of the temperature sensitivity of respiration over a range of growth temperatures indicated by a modified Arrhenius model. <i>New Phytologist</i> , <b>2015</b> , 207, 34-42	9.8	17
101	A Genome Scan for Genes Underlying Microgeographic-Scale Local Adaptation in a Wild <i>Arabidopsis</i> Species. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005361	6	38
100	Vulnerability of moorland plant communities to environmental change: consequences of realistic species loss on functional diversity. <i>Journal of Applied Ecology</i> , <b>2014</b> , 51, 299-308	5.8	23
99	Is UV-induced DNA damage greater at higher elevation?. <i>American Journal of Botany</i> , <b>2014</b> , 101, 796-802.	2.7	17
98	Global dependence of field-observed leaf area index in woody species on climate: a systematic review. <i>Global Ecology and Biogeography</i> , <b>2014</b> , 23, 274-285	6.1	70
97	Leaf-trait responses to environmental gradients in moorland communities: contribution of intraspecific variation, species replacement and functional group replacement. <i>Ecological Research</i> , <b>2014</b> , 29, 607-617	1.9	12
96	Optimal nitrogen distribution within a leaf canopy under direct and diffuse light. <i>Plant, Cell and Environment</i> , <b>2014</b> , 37, 2077-85	8.4	52
95	Seasonal change in light partitioning among coexisting species of different functional groups along elevation gradient in subalpine moorlands. <i>New Phytologist</i> , <b>2014</b> , 204, 913-23	9.8	7
94	Temperature response of photosynthesis in C3, C4, and CAM plants: temperature acclimation and temperature adaptation. <i>Photosynthesis Research</i> , <b>2014</b> , 119, 101-17	3.7	508
93	Resource Allocation and Trade-Offs in Carbon Gain of Leaves Under Changing Environment. <i>Plant Ecophysiology</i> , <b>2014</b> , 1-24		
92	Effects of elevated CO <sub>2</sub> on leaf area dynamics in nodulating and non-nodulating soybean stands. <i>Plant and Soil</i> , <b>2013</b> , 373, 627-639	4.2	8

91	Pinus pumila Photosynthesis Is Suppressed by Water Stress in a Wind-Exposed Mountain Site. <i>Arctic, Antarctic, and Alpine Research</i> , <b>2013</b> , 45, 229-237	1.8	5
90	Variations in Species Composition of Moorland Plant Communities Along Environmental Gradients Within a Subalpine Zone in Northern Japan. <i>Wetlands</i> , <b>2013</b> , 33, 269-277	1.7	10
89	Nestedness and niche-based species loss in moorland plant communities. <i>Oikos</i> , <b>2012</b> , 121, 1783-1790	4	17
88	Polygonum sachalinense alters the balance between capacities of regeneration and carboxylation of ribulose-1,5-bisphosphate in response to growth CO2 increment but not the nitrogen allocation within the photosynthetic apparatus. <i>Physiologia Plantarum</i> , <b>2012</b> , 146, 404-12	4.6	9
87	An evolutionary game of leaf dynamics and its consequences for canopy structure. <i>Functional Ecology</i> , <b>2012</b> , 26, 1024-1032	5.6	19
86	Not only light quality but also mechanical stimuli are involved in height convergence in crowded Chenopodium album stands. <i>New Phytologist</i> , <b>2012</b> , 195, 803-811	9.8	19
85	Diversity partitioning of moorland plant communities across hierarchical spatial scales. <i>Biodiversity and Conservation</i> , <b>2012</b> , 21, 1577-1588	3.4	14
84	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> , <b>2011</b> , 17, 3431-3438	11.4	9
83	Phenotypic and genetic differences in a perennial herb across a natural gradient of CO2 concentration. <i>Oecologia</i> , <b>2011</b> , 165, 809-18	2.9	20
82	Optimal use of leaf nitrogen explains seasonal changes in leaf nitrogen content of an understorey evergreen shrub. <i>Annals of Botany</i> , <b>2011</b> , 108, 529-36	4.1	26
81	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> , <b>2011</b> , 108, 207-14	4.1	54
80	Effects of elevated CO2 concentration on seed production in C3 annual plants. <i>Journal of Experimental Botany</i> , <b>2011</b> , 62, 1523-30	7	29
79	Mechanisms underlying interspecific variation in photosynthetic capacity across wild plant species. <i>Plant Biotechnology</i> , <b>2010</b> , 27, 223-229	1.3	33
78	Why does Viola hondoensis (Violaceae) shed its winter leaves in spring?. <i>American Journal of Botany</i> , <b>2010</b> , 97, 1944-50	2.7	8
77	Phenotypic plasticity in photosynthetic temperature acclimation among crop species with different cold tolerances. <i>Plant Physiology</i> , <b>2010</b> , 152, 388-99	6.6	129
76	Effects of atmospheric CO2 concentration, irradiance, and soil nitrogen availability on leaf photosynthetic traits of Polygonum sachalinense around natural CO2 springs in northern Japan. <i>Oecologia</i> , <b>2010</b> , 164, 41-52	2.9	19
75	Light interception in species with different functional groups coexisting in moorland plant communities. <i>Oecologia</i> , <b>2010</b> , 164, 591-9	2.9	26
74	Interactions between elevated CO2 and N2-fixation determine soybean yield—test using a non-nodulated mutant. <i>Plant and Soil</i> , <b>2010</b> , 330, 163-172	4.2	11

73	Cold-tolerant crop species have greater temperature homeostasis of leaf respiration and photosynthesis than cold-sensitive species. <i>Plant and Cell Physiology</i> , <b>2009</b> , 50, 203-15	4.9	77
72	A paradox of leaf-trait convergence: why is leaf nitrogen concentration higher in species with higher photosynthetic capacity?. <i>Journal of Plant Research</i> , <b>2009</b> , 122, 245-51	2.6	24
71	The role of Rubisco and cell walls in the interspecific variation in photosynthetic capacity. <i>Oecologia</i> , <b>2009</b> , 160, 443-51	2.9	94
70	Carbon balance in a monospecific stand of an annual herb <i>Chenopodium album</i> at an elevated CO <sub>2</sub> concentration. <i>Plant Ecology</i> , <b>2009</b> , 203, 33-44	1.7	6
69	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> , <b>2009</b> , 11 Suppl 1, 94-100	3.7	14
68	The leaf anatomy of a broad-leaved evergreen allows an increase in leaf nitrogen content in winter. <i>Physiologia Plantarum</i> , <b>2009</b> , 136, 299-309	4.6	29
67	Does leaf photosynthesis adapt to CO <sub>2</sub> -enriched environments? An experiment on plants originating from three natural CO <sub>2</sub> springs. <i>New Phytologist</i> , <b>2009</b> , 182, 698-709	9.8	37
66	Does leaf shedding increase the whole-plant carbon gain despite some nitrogen being lost with shedding?. <i>New Phytologist</i> , <b>2008</b> , 178, 617-24	9.8	33
65	Relationships between photosynthetic activity and silica accumulation with ages of leaf in <i>Sasa veitchii</i> (Poaceae, Bambusoideae). <i>Annals of Botany</i> , <b>2008</b> , 101, 463-8	4.1	19
64	Reproductive yield of individuals competing for light in a dense stand of an annual, <i>Xanthium canadense</i> . <i>Oecologia</i> , <b>2008</b> , 157, 185-95	2.9	14
63	Costs and benefits of photosynthetic light acclimation by tree seedlings in response to gap formation. <i>Oecologia</i> , <b>2008</b> , 155, 665-75	2.9	25
62	Elevated CO <sub>2</sub> concentration, nitrogen use, and seed production in annual plants. <i>Global Change Biology</i> , <b>2007</b> , 13, 2161-2170	11.4	32
61	Intraspecific variation in temperature dependence of gas exchange characteristics among <i>Plantago asiatica</i> ecotypes from different temperature regimes. <i>New Phytologist</i> , <b>2007</b> , 176, 356-364	9.8	35
60	Effect of elevated CO <sub>2</sub> levels on leaf starch, nitrogen and photosynthesis of plants growing at three natural CO <sub>2</sub> springs in Japan. <i>Ecological Research</i> , <b>2007</b> , 22, 475-484	1.9	28
59	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> , <b>2007</b> , 27, 1035-41	4.2	40
58	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> , <b>2007</b> , 34, 409-417	2.7	29
57	Terrestrial Ecosystems in Monsoon Asia: Scaling up from Shoot Module to Watershed <b>2007</b> , 285-296		1
56	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> , <b>2006</b> , 26, 1315-23	4.2	43

55	Seasonal changes in temperature dependence of photosynthetic rate in rice under a free-air CO <sub>2</sub> enrichment. <i>Annals of Botany</i> , <b>2006</b> , 97, 549-57	4.1	47
54	Temperature acclimation of photosynthesis: mechanisms involved in the changes in temperature dependence of photosynthetic rate. <i>Journal of Experimental Botany</i> , <b>2006</b> , 57, 291-302	7	328
53	Resource allocation to vegetative and reproductive growth in relation to mast seeding in <i>Fagus crenata</i> . <i>Forest Ecology and Management</i> , <b>2006</b> , 229, 228-233	3.9	52
52	Leaf lifespan and lifetime carbon balance of individual leaves in a stand of an annual herb, <i>Xanthium canadense</i> . <i>New Phytologist</i> , <b>2006</b> , 172, 104-16	9.8	47
51	Leaf anatomy and light acclimation in woody seedlings after gap formation in a cool-temperate deciduous forest. <i>Oecologia</i> , <b>2006</b> , 149, 571-82	2.9	68
50	Plant responses to elevated CO <sub>2</sub> concentration at different scales: leaf, whole plant, canopy, and population <b>2005</b> , 3-13		3
49	Leaf canopy as a dynamic system: ecophysiology and optimality in leaf turnover. <i>Annals of Botany</i> , <b>2005</b> , 95, 521-33	4.1	191
48	Assessing the generality of global leaf trait relationships. <i>New Phytologist</i> , <b>2005</b> , 166, 485-96	9.8	1343
47	Modulation of leaf economic traits and trait relationships by climate. <i>Global Ecology and Biogeography</i> , <b>2005</b> , 14, 411-421	6.1	535
46	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> , <b>2005</b> , 28, 916-927	8.4	198
45	Dynamics of leaf area and nitrogen in the canopy of an annual herb, <i>Xanthium canadense</i> . <i>Oecologia</i> , <b>2005</b> , 143, 517-26	2.9	19
44	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> , <b>2005</b> , 143, 501-8 <sup>2.9</sup>		42
43	Nitrogen resorption from leaves under different growth irradiance in three deciduous woody species. <i>Plant Ecology</i> , <b>2005</b> , 178, 29-37	1.7	27
42	Plant responses to elevated CO <sub>2</sub> concentration at different scales: leaf, whole plant, canopy, and population. <i>Ecological Research</i> , <b>2005</b> , 20, 243-253	1.9	32
41	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> , <b>2005</b> , 32, 903-910	2.7	75
40	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> , <b>2005</b> , 46, 1283-90	4.9	62
39	Respiration and reproductive effort in <i>Xanthium canadense</i> . <i>Annals of Botany</i> , <b>2005</b> , 96, 81-9	4.1	5
38	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> , <b>2005</b> , 95, 1025-32	4.1	34



37	Seasonal change in the balance between capacities of RuBP carboxylation and RuBP regeneration affects CO <sub>2</sub> response of photosynthesis in <i>Polygonum cuspidatum</i> . <i>Journal of Experimental Botany</i> , <b>2005</b> , 56, 755-63	7	81
36	Photosynthesis or persistence: nitrogen allocation in leaves of evergreen and deciduous <i>Quercus</i> species. <i>Plant, Cell and Environment</i> , <b>2004</b> , 27, 1047-1054	8.4	316
35	Allocation of nitrogen to cell walls decreases photosynthetic nitrogen-use efficiency. <i>Functional Ecology</i> , <b>2004</b> , 18, 419-425	5.6	205
34	The worldwide leaf economics spectrum. <i>Nature</i> , <b>2004</b> , 428, 821-7	50.4	4915
33	Photosynthetic rates and partitioning of absorbed light energy in photoinhibited leaves. <i>Physiologia Plantarum</i> , <b>2004</b> , 121, 699-708	4.6	60
32	Interspecific difference in the photosynthesis-nitrogen relationship: patterns, physiological causes, and ecological importance. <i>Journal of Plant Research</i> , <b>2004</b> , 117, 481-94	2.6	303
31	Cost-benefit relationships in fronds emerging at different times in a deciduous fern, <i>Pteridium aquilinum</i> . <i>Canadian Journal of Botany</i> , <b>2004</b> , 82, 521-527		15
30	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> , <b>2003</b> , 162, 149-64	3.7	94
29	Reproductive allocation of an annual, <i>Xanthium canadense</i> , at an elevated carbon dioxide concentration. <i>Oecologia</i> , <b>2003</b> , 137, 1-9	2.9	23
28	Does the photosynthetic light-acclimation need change in leaf anatomy?. <i>Plant, Cell and Environment</i> , <b>2003</b> , 26, 505-512	8.4	240
27	Effects of elevated CO <sub>2</sub> on the size structure in even-aged monospecific stands of <i>Chenopodium album</i> . <i>Global Change Biology</i> , <b>2003</b> , 9, 619-629	11.4	15
26	Light-acquisition and use of individuals as influenced by elevated CO <sub>2</sub> in even-aged monospecific stands of <i>Chenopodium album</i> . <i>Functional Ecology</i> , <b>2003</b> , 17, 786-795	5.6	29
25	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> , <b>2003</b> , 44, 318-25	4.9	140
24	Increase in leaf mass per area benefits plant growth at elevated CO <sub>2</sub> concentration. <i>Annals of Botany</i> , <b>2003</b> , 91, 905-14	4.1	25
23	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> , <b>2003</b> , 44, 828-35	4.9	30
22	Leaf-level nitrogen-use efficiency of canopy and understorey species in a beech forest. <i>Functional Ecology</i> , <b>2002</b> , 16, 826-834	5.6	48
21	Photosynthesis-nitrogen relationships in species at different altitudes on Mount Kinabalu, Malaysia. <i>Ecological Research</i> , <b>2002</b> , 17, 305-313	1.9	54
20	Light partitioning among species and species replacement in early successional grasslands. <i>Journal of Vegetation Science</i> , <b>2002</b> , 13, 615-626	3.1	55



19	Leaf discs floated on water are different from intact leaves in photosynthesis and photoinhibition. <i>Photosynthesis Research</i> , <b>2002</b> , 72, 65-70	3.7	19
18	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> , <b>2002</b> , 29, 787-795	2.7	25
17	Light partitioning among species and species replacement in early successional grasslands <b>2002</b> , 13, 615		4
16	Nitrogen uptake and use by competing individuals in a <i>Xanthium canadense</i> stand. <i>Oecologia</i> , <b>2001</b> , 126, 174-181	2.9	42
15	A simple formulation of interaction between individuals competing for light in a monospecific stand. <i>Functional Ecology</i> , <b>2001</b> , 15, 642-646	5.6	19
14	Photosynthetic nitrogen-use efficiency in evergreen broad-leaved woody species coexisting in a warm-temperate forest. <i>Tree Physiology</i> , <b>2000</b> , 20, 1249-1254	4.2	53
13	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> , <b>1999</b> , 22, 841-849	8.4	117
12	Light acquisition and use by individuals competing in a dense stand of an annual herb, <i>Xanthium canadense</i> . <i>Oecologia</i> , <b>1999</b> , 118, 388-396	2.9	87
11	Photosynthetic nitrogen-use efficiency in leaves of woody and herbaceous species. <i>Functional Ecology</i> , <b>1998</b> , 12, 896-905	5.6	106
10	Leaf and canopy photosynthesis of C3 plants at elevated CO2 in relation to optimal partitioning of nitrogen among photosynthetic components: theoretical prediction. <i>Ecological Modelling</i> , <b>1998</b> , 106, 247-259	3	40
9	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> , <b>1998</b> , 113, 314-324	2.9	92
8	Leaf angle as a strategy for light competition: Optimal and evolutionarily stable light-extinction coefficient within a leaf canopy. <i>Ecoscience</i> , <b>1997</b> , 4, 501-507	1.1	88
7	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> , <b>1997</b> , 84, 823-829	2.7	35
6	Modelling Optimal Temperature Acclimation of the Photosynthetic Apparatus in C3Plants with Respect to Nitrogen Use. <i>Annals of Botany</i> , <b>1997</b> , 80, 721-730	4.1	70
5	Nitrogen Partitioning among Photosynthetic Components and its Consequence in Sun and Shade Plants. <i>Functional Ecology</i> , <b>1996</b> , 10, 335	5.6	133
4	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> , <b>1996</b> , 198, 144	4.7	87
3	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> , <b>1995</b> , 18, 605-618	8.4	305
2	Comparative ecophysiology of leaf and canopy photosynthesis. <i>Plant, Cell and Environment</i> , <b>1995</b> , 18, 1111-1128	8.4	301

- 1 Effects of leaf age, nitrogen nutrition and photon flux density on the distribution of nitrogen among leaves of a vine (*Ipomoea tricolor* Cav.) grown horizontally to avoid mutual shading of leaves. *Oecologia*, **1994**, 97, 451-457 2.9 196