

# Photosynthesis and nitrogen relationships in leaves of C

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Partitioning of Nitrogen Between and Within Leaves Grown Under Different Irradiances. <i>Functional Plant Biology</i> , 1989, 16, 533.	1.1	152
2	Light Adaptation/Acclimation of Photosynthesis and the Regulation of Ribulose-1,5-Bisphosphate Carboxylase Activity in Sun and Shade Plants. <i>Plant Physiology</i> , 1989, 91, 379-386.	2.3	62
3	Modelling of Respiration: Effect of Variation in Respiration on Plant Growth in Two <i>Carex</i> Species. <i>Functional Ecology</i> , 1989, 3, 655.	1.7	9
4	The nutritional status of plants from high altitudes. <i>Oecologia</i> , 1989, 81, 379-391.	0.9	372
5	The Direct Effects of Increase in the Global Atmospheric CO <sub>2</sub> Concentration on Natural and Commercial Temperate Trees and Forests. <i>Advances in Ecological Research</i> , 1989, 19, 1-55.	1.4	502
6	Effect of Variations in Leaf Size on Morphology and Photosynthetic Rate of Twigs. <i>Functional Ecology</i> , 1990, 4, 209.	1.7	23
7	Expression of Genes for Photosynthesis and the Relationship to Salt Tolerance of Alfalfa <i>&lt;italic&gt;(Medicago sativa)&lt;/italic&gt;</i> Cells. <i>Plant and Cell Physiology</i> , 1990, , .	1.5	9
8	Potential Consequences of Virus Infection for Shadeâ€Sun Acclimation in Leaves. <i>Botanica Acta</i> , 1990, 103, 226-229.	1.6	32
9	Effect of nitrogen application on growth and photosynthetic nitrogen use efficiency in two ecotypes of wild strawberry, <i>Fragaria chiloensis</i> . <i>Physiologia Plantarum</i> , 1990, 80, 612-618.	2.6	9
10	Carbon isotope ratios are correlated with irradiance levels in the Panamanian orchid <i>Catasetum viridiflavum</i> . <i>Oecologia</i> , 1990, 83, 247-249.	0.9	105
11	Genetic variation in and covariation between leaf gas exchange, morphology, and development in <i>Polygonum arenastrum</i> , an annual plant. <i>Oecologia</i> , 1990, 85, 153-158.	0.9	149
12	Photosynthesis and Chlorophyll Fluorescence Characteristics in Relationship to Changes in Pigment and Element Composition of Leaves of <i>&lt;i&gt;Platanus occidentalis&lt;/i&gt;</i> L. during Autumnal Leaf Senescence. <i>Plant Physiology</i> , 1990, 92, 1184-1190.	2.3	114
13	Carbon and Nitrogen Economy of 24 Wild Species Differing in Relative Growth Rate. <i>Plant Physiology</i> , 1990, 94, 621-627.	2.3	540
14	Evolutionary and Ecophysiological Responses of Mountain Plants to the Growing Season Environment. <i>Advances in Ecological Research</i> , 1990, 20, 59-124.	1.4	171
15	Canopy development and photosynthesis of cotton as influenced by nitrogen nutrition. <i>Journal of Plant Nutrition</i> , 1990, 13, 1141-1154.	0.9	47
16	Leaf chamber methods for measuring photosynthesis under field conditions. <i>International Journal of Remote Sensing</i> , 1990, 5, 117-139.	1.1	4
17	Correlations between Carbon Isotope Discrimination and Leaf Conductance to Water Vapor in Common Beans. <i>Plant Physiology</i> , 1990, 93, 1422-1425.	2.3	94
18	Global change: Translating plant ecophysiological responses to ecosystems. <i>Trends in Ecology and Evolution</i> , 1990, 5, 308-311.	4.2	64

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19	The Effect of Leaf Nitrogen and Temperature on the CO <sub>2</sub> Response of Photosynthesis in the C <sub>3</sub> Dicot <i>MChenopodium album</i> L. <i>Functional Plant Biology</i> , 1990, 17, 135.	1.1	47
20	Assessing diversity in plant communities: The importance of within-species variation. <i>Trends in Ecology and Evolution</i> , 1991, 6, 400-404.	4.2	11
21	PHOTOSYNTHETIC CHARACTERISTICS OF C <sub>3</sub> & C <sub>4</sub> INTERMEDIATE FLAVERIA FLORIDANA (ASTERACEAE) IN NATURAL HABITATS: EVIDENCE OF ADVANTAGES TO C <sub>3</sub> & C <sub>4</sub> PHOTOSYNTHESIS AT HIGH LEAF TEMPERATURES. <i>American Journal of Botany</i> , 1991, 78, 795-800.	0.8	24
22	Terrestrial biogeochemical cycles: global interactions with the atmosphere and hydrology. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1991, 43, 188-203.	0.8	15
23	Ecological Scaling of Carbon Gain to Stress and Resource Availability. , 1991, , 35-65.		157
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26	Physiological Interactions Along Resource Gradients in a Tallgrass Prairie. <i>Ecology</i> , 1991, 72, 672-684.	1.5	193
27	Direct effects of increasing carbon dioxide on pasture plants and communities. <i>New Zealand Journal of Agricultural Research</i> , 1991, 34, 1-24.	0.9	97
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31	Environment stress, plant quality and abundance of cereal aphids (Hom., Aphididae) on winter wheat. <i>Journal of Applied Entomology</i> , 1991, 112, 65-70.	0.8	26
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35	Photosynthesis in relation to leaf nitrogen and phosphorus content in Zimbabwean trees. <i>Oecologia</i> , 1991, 88, 378-382.	0.9	32
36	Spatial distributions of foliar nitrogen and phosphorus in crowns of <i>Eucalyptus grandis</i> . <i>Oecologia</i> , 1991, 88, 504-510.	0.9	105

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37	Comparative life history and physiology of two understory Neotropical herbs. <i>Oecologia</i> , 1991, 88, 263-273.	0.9	48
38	The Influence of Nitrogen, Light and Water Stress on CO <sub>2</sub> Exchange and Organic Acid Accumulation in the Tropical C <sub>3</sub> CAM Tree, <i>Clusia minor</i> . <i>Journal of Experimental Botany</i> , 1991, 42, 597-603.	2.4	57
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42	Cost-Benefit Relationships in Deciduous and Evergreen Leaves of Tropical Dry Forest Species. <i>Functional Ecology</i> , 1991, 5, 608.	1.7	132
43	Altitudinal Trends in Leaf Nutrient Contents, Leaf Size and $\delta^{13}C$ of <i>Alchemilla alpina</i> . <i>Functional Ecology</i> , 1992, 6, 730.	1.7	62
44	Relationship between Photosynthesis and Thickness of Cotyledons for Tropical Tree Species. <i>Functional Ecology</i> , 1992, 6, 582.	1.7	56
45	Leaf Mass Per Area, Nitrogen Content and Photosynthetic Carbon Gain in <i>Acer saccharum</i> Seedlings in Contrasting Forest Light Environments. <i>Functional Ecology</i> , 1992, 6, 423.	1.7	245
46	Comparison of drought resistance among <i>Prunus</i> species from divergent habitats. <i>Tree Physiology</i> , 1992, 11, 369-380.	1.4	70
47	Changes in Leaf Gas Exchange Properties of Cloned <i>Betula pendula</i> Saplings after Partial Defoliation. <i>Journal of Experimental Botany</i> , 1992, 43, 1301-1307.	2.4	36
48	Effects of root temperature on growth and photosynthesis in conifer seedlings during shoot elongation. <i>Tree Physiology</i> , 1992, 10, 217-230.	1.4	124
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56	Zur Ökologie von <i>Melilotus alba</i> L.. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 1992, 186, 341-357.	0.6	3
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64	Net assimilation rate and shoot area development in birch ( <i>Betula pendula</i> Roth.) at different steady-state values of nutrition and photon flux density. <i>Trees - Structure and Function</i> , 1992, 6, 1.	0.9	26
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73	Nitrogen supply and the control of expansive growth and function in leaves and roots. <i>Plant and Soil</i> , 1993, 155-156, 195-198.	1.8	3
74	Light-associated nitrogen distribution profile in flowering canopies of sunflower ( <i>Helianthus</i> ) Tj ETQq1 1 0.784314 $\frac{rgBT}{Overlock}$ 10 $\frac{TF}{56}$	0.9	56
75	Effects of nitrogen supply and elevated carbon dioxide on construction cost in leaves of <i>Pinus taeda</i> (L.) seedlings. <i>Oecologia</i> , 1993, 95, 575-580.	0.9	95
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92	Evolutionary and Ecological Aspects of Photosynthetic Pathway Variation. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 1993, 24, 411-439.	6.7	662
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103	RESPONSE OF TROPIC LEAF MOVEMENTS AND PHOTOSYNTHETIC GAS EXCHANGE TO WATER AVAILABILITY IN N <sub>2</sub> -FIXING AND NO <sub>3</sub> -FIXED SOYBEAN. <i>American Journal of Botany</i> , 1993, 80, 886-891.	0.8	3
104	Photosynthetic Acclimation to Changing Light Environments: Scaling from the Leaf to the Whole Plant. , 1994, , 145-174.		146
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111	Photosynthetic Capacity and Photosynthetic Nutrient-Use Efficiency of <i>Rhododendron lapponicum</i> Leaves as Related to Leaf Nutrient Status, Leaf Age and Branch Reproductive Status. <i>Functional Ecology</i> , 1994, 8, 694.	1.7	33
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129	Influence of the host on three sub- $\epsilon$ Arctic annual facultative root hemiparasites. <i>New Phytologist</i> , 1994, 127, 37-44.	3.5	34
130	Leaf age effects on photosynthetic rate, transpiration rate and nitrogen content in a tropical dry forest. <i>Physiologia Plantarum</i> , 1994, 90, 210-215.	2.6	53
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307	Distribution of leaf photosynthetic properties in tree canopies: comparison of species with different shade tolerance. <i>Functional Ecology</i> , 1998, 12, 472-479.	1.7	92
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348	Effects of elevated atmospheric CO <sub>2</sub> on phenology, growth and crown structure of Scots pine ( <i>Pinus</i> ) Tj ETQq1 1 0,784314 rgBT /Overlock 10 Tf 50 5	1.4	84
349	Parameterization and testing of a biochemically based photosynthesis model for walnut ( <i>Juglans</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	1.4	84
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705	What determines rates of photosynthesis per unit nitrogen in <i>Eucalyptus</i> seedlings?. <i>Functional Plant Biology</i> , 2004, 31, 1169.	1.1	30
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708	Within-canopy gradients of nitrogen and photosynthetic activity of <i>Eucalyptus nitens</i> and <i>Eucalyptus globulus</i> in response to nitrogen nutrition. <i>Australian Journal of Botany</i> , 2004, 52, 133.	0.3	42
709	Late-season fertilization of <i>Picea mariana</i> seedlings: intensive loading and outplanting response on greenhouse bioassays. <i>Annals of Forest Science</i> , 2004, 61, 737-745.	0.8	40
710	Parameterization of Canopy Structure and Leaf-Level Gas Exchange for an Eastern Amazonian Tropical Rain Forest (Tapaj�s National Forest, Par�, Brazil). <i>Earth Interactions</i> , 2005, 9, 1-23.	0.7	110
711	Winter photosynthesis by saplings of evergreen broadleaved trees in a deciduous temperate forest. <i>New Phytologist</i> , 2005, 165, 857-866.	3.5	66
712	The importance of nitrogen and carbohydrate storage for plant growth of the alpine herb <i>Veratrum album</i> . <i>New Phytologist</i> , 2005, 166, 565-575.	3.5	43
713	Nitrogen/phosphorus leaf stoichiometry and the scaling of plant growth. <i>Ecology Letters</i> , 2005, 8, 636-642.	3.0	215
714	Physiological responses to drought and shade in two contrasting <i>Picea asperata</i> populations. <i>Physiologia Plantarum</i> , 2005, 124, 476-484.	2.6	89
715	Elevated CO <sub>2</sub> and limited nitrogen nutrition can restrict excitation energy dissipation in photosystem II of Japanese white birch ( <i>Betula platyphylla</i> var. <i>japonica</i> ) leaves. <i>Physiologia Plantarum</i> , 2005, 125, 64-73.	2.6	36
716	Continuous light may induce photosynthetic downregulation in onion - consequences for growth and biomass partitioning. <i>Physiologia Plantarum</i> , 2005, 125, 235-246.	2.6	46
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733	Seasonal variation in stomatal conductance and physiological factors observed in a secondary warm-temperate forest. <i>Ecological Research</i> , 2005, 20, 333-346.	0.7	18
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766	Optically assessed contents of leaf polyphenolics and chlorophyll as indicators of nitrogen deficiency in wheat ( <i>Triticum aestivum</i> L.). <i>Field Crops Research</i> , 2005, 91, 35-49.	2.3	336
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838	A Model Explaining Genotypic and Ontogenetic Variation of Leaf Photosynthetic Rate in Rice ( <i>Oryza</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.4	105
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1276	The physiology of invasive plants in low-resource environments. , 2013, 1, cot026-cot026.		182
1277	Life history and resource acquisition: Photosynthetic traits in selected accessions of three perennial cereal species compared with annual wheat and rye. <i>American Journal of Botany</i> , 2013, 100, 2468-2477.	0.8	16
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1369	Seedling performance trade-offs influencing habitat filtering along a soil nutrient gradient in a tropical forest. <i>Ecology</i> , 2014, 95, 3399-3413.	1.5	19
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1390	Effects of mixing clones on hybrid poplar productivity, photosynthesis and root development in northeastern Canadian plantations. <i>Forest Ecology and Management</i> , 2014, 327, 157-166.	1.4	12
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1409	Seasonal and within-canopy variation in shoot-scale resource-use efficiency trade-offs in a $\text{N}$ -enriched Norway spruce stand. <i>Plant, Cell and Environment</i> , 2015, 38, 2487-2496.	2.8	24
1410	CARMO: a comprehensive annotation platform for functional exploration of riceomics data. <i>Plant Journal</i> , 2015, 83, 359-374.	2.8	50
1411	Ecophysiology of four co-occurring lycophyte species: an investigation of functional convergence. <i>AoB PLANTS</i> , 2015, 7, plv137.	1.2	5
1412	Leaf traits of two Mediterranean perennial tussock grass species in relation to soil nitrogen and phosphorus availability. <i>African Journal of Ecology</i> , 2015, 53, 581-587.	0.4	4
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1414	Nontraumatic Responses of Natural Vegetation to Long-Term Carbon Dioxide Enrichment. <i>ASA Special Publication</i> , 0, , 101-112.	0.8	0
1416	Conversion efficiency of photosynthetically active radiation intercepted in biomass in stands of black wattle in Brazil. <i>Bosque</i> , 2015, 36, 61-69.	0.1	3
1417	Investigating the usefulness of satellite-derived fluorescence data in inferring gross primary productivity within the carbon cycle data assimilation system. <i>Biogeosciences</i> , 2015, 12, 4067-4084.	1.3	80
1418	Effects of experimental nitrogen deposition on peatland carbon pools and fluxes: a modelling analysis. <i>Biogeosciences</i> , 2015, 12, 79-101.	1.3	11
1419	Modelling the response of yields and tissue C : N to changes in atmospheric $\text{CO}_2$ and N management in the main wheat regions of western Europe. <i>Biogeosciences</i> , 2015, 12, 2489-2515.	1.3	47
1420	Thermal-based modeling of coupled carbon, water, and energy fluxes using nominal light use efficiencies constrained by leaf chlorophyll observations. <i>Biogeosciences</i> , 2015, 12, 1511-1523.	1.3	17
1421	Carbon Assimilation, Biomass Partitioning and Productivity in Grasses. <i>Agriculture (Switzerland)</i> , 2015, 5, 1116-1134.	1.4	53
1422	Higher Thermal Acclimation Potential of Respiration but Not Photosynthesis in Two Alpine Picea Taxa in Contrast to Two Lowland Congeners. <i>PLoS ONE</i> , 2015, 10, e0123248.	1.1	23
1423	Herbivory and Stoichiometric Feedbacks to Primary Production. <i>PLoS ONE</i> , 2015, 10, e0129775.	1.1	16
1424	Seasonal Variations of C: N: P Stoichiometry and Their Trade-Offs in Different Organs of Suaeda salsa in Coastal Wetland of Yellow River Delta, China. <i>PLoS ONE</i> , 2015, 10, e0138169.	1.1	18
1425	Comparative physiology of allopatric Populus species: geographic clines in photosynthesis, height growth, and carbon isotope discrimination in common gardens. <i>Frontiers in Plant Science</i> , 2015, 6, 528.	1.7	31

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1426	Supplemental Upward Lighting from Underneath to Obtain Higher Marketable Lettuce ( <i>Lactuca sativa</i> ) Leaf Fresh Weight by Retarding Senescence of Outer Leaves. <i>Frontiers in Plant Science</i> , 2015, 6, 1110.	1.7	40
1427	Indirect Estimations of Lentil Leaf and Plant N by SPAD Chlorophyll Meter. <i>International Journal of Agronomy</i> , 2015, 2015, 1-10.	0.5	4
1428	Plasticity in functional traits in the context of climate change: a case study of the subalpine forb <i>Boechera stricta</i> (Brassicaceae). <i>Global Change Biology</i> , 2015, 21, 1689-1703.	4.2	87
1429	Heterogeneity of photosynthesis within leaves is associated with alteration of leaf structural features and leaf N content per leaf area in rice. <i>Functional Plant Biology</i> , 2015, 42, 687.	1.1	32
1430	Estimating chlorophyll with thermal and broadband multispectral high resolution imagery from an unmanned aerial system using relevance vector machines for precision agriculture. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2015, 43, 32-42.	1.4	119
1431	Plant and soil $\delta^{13}C$ and $\delta^{15}N$ are linked to community biomass, litter production, and litter turnover rate in mature subtropical forests. <i>Plant Ecology</i> , 2015, 216, 859-872.	0.7	3
1432	Osmotic stress affects physiological responses and growth characteristics of three pistachio cultivars. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.	1.0	8
1433	Variation of nitric oxide emission potential in plants: a possible link to leaf N content and net photosynthetic activity. <i>Journal of Plant Ecology</i> , 2015, 8, 313-320.	1.2	4
1434	Divergent patterns of foliar $\delta^{13}C$ and $\delta^{15}N$ in <i>Quercus aquifolioides</i> with an altitudinal transect on the Tibetan Plateau: an integrated study based on multiple key leaf functional traits. <i>Journal of Plant Ecology</i> , 2015, 8, 303-312.	1.2	17
1435	Does <i>Quercus dealbata</i> express shade tolerance in Mediterranean forest ecosystems of South America?. <i>Ecology and Evolution</i> , 2015, 5, 3338-3351.	0.8	13
1436	Warming delays autumn declines in photosynthetic capacity in a boreal conifer, Norway spruce ( <i>Picea abies</i> ). <i>Tree Physiology</i> , 2015, 35, 1303-1313.	1.4	35
1437	Leaf dynamics in growth and reproduction of <i>Xanthium canadense</i> as influenced by stand density. <i>Annals of Botany</i> , 2015, 116, 807-819.	1.4	4
1438	Differences between winter oilseed rape ( <i>Brassica napus</i> L.) cultivars in nitrogen starvation-induced leaf senescence are governed by leaf-inherent rather than root-derived signals. <i>Journal of Experimental Botany</i> , 2015, 66, 3669-3681.	2.4	29
1439	Assessing the relationship between photosynthetic C accumulation and symbiotic N nutrition in leaves of field-grown nodulated cowpea ( <i>Vigna unguiculata</i> L. Walp.) genotypes. <i>Photosynthetica</i> , 2015, 53, 562-571.	0.9	9
1440	Leaf nitrogen spectral reflectance model of winter wheat ( <i>Triticum aestivum</i> ) based on PROSPECT: simulation and inversion. <i>Journal of Applied Remote Sensing</i> , 2015, 9, 095976.	0.6	47
1441	Bimodal dynamics of primary metabolism-related responses in tolerant potato-Potato virus Y interaction. <i>BMC Genomics</i> , 2015, 16, 716.	1.2	73
1442	Plasticity of functional traits of forb species in response to biodiversity. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2015, 17, 66-77.	1.1	58
1443	Hyperspectral Indices, Correlation and Regression Models for Estimating Growth Parameters of Wheat Genotypes. <i>Journal of the Indian Society of Remote Sensing</i> , 2015, 43, 551-558.	1.2	21



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1445	Whole-tree dynamics of non-structural carbohydrate and nitrogen pools across different seasons and in response to girdling in two temperate trees. <i>Oecologia</i> , 2015, 177, 333-344.	0.9	60
1446	Effect of biochar amendment on yield and photosynthesis of peanut on two types of soils. <i>Environmental Science and Pollution Research</i> , 2015, 22, 6112-6125.	2.7	170
1447	Light acclimation optimizes leaf functional traits despite height-related constraints in a canopy shading experiment. <i>Oecologia</i> , 2015, 177, 1131-1143.	0.9	46
1448	Plasticity of nitrogen allocation in the leaves of the invasive wetland grass, <i>Phalaris arundinacea</i> and co-occurring <i>Carex</i> species determines the photosynthetic sensitivity to nitrogen availability. <i>Journal of Plant Physiology</i> , 2015, 177, 20-29.	1.6	11
1449	Spatial patterns of leaf carbon, nitrogen stoichiometry and stable carbon isotope composition of <i>Ranunculus natans</i> C.A. Mey. (Ranunculaceae) in the arid zone of northwest China. <i>Ecological Engineering</i> , 2015, 77, 9-17.	1.6	26
1450	Capability of models to predict leaf N and P across four seasons for six sub-tropical forest evergreen trees. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015, 101, 209-220.	4.9	16
1451	Global variability in leaf respiration in relation to climate, plant functional types and leaf traits. <i>New Phytologist</i> , 2015, 206, 614-636.	3.5	350
1452	Patterns and variability in seedling carbon assimilation: implications for tree recruitment under climate change. <i>Tree Physiology</i> , 2015, 35, 71-85.	1.4	13
1453	Convergence in resource use efficiency across trees with differing hydraulic strategies in response to ecosystem precipitation manipulation. <i>Functional Ecology</i> , 2015, 29, 1125-1136.	1.7	35
1454	Differences in growth characteristics and dynamics of elements in seedlings of two birch species grown in serpentine soil in northern Japan. <i>Trees - Structure and Function</i> , 2015, 29, 171-184.	0.9	7
1455	Effects of soil and microclimatic conditions on the community-level plant functional traits across different tropical forest types. <i>Plant and Soil</i> , 2015, 390, 351-367.	1.8	19
1456	A global analysis of water and nitrogen relationships between mistletoes and their hosts: broad-scale tests of old and enduring hypotheses. <i>Functional Ecology</i> , 2015, 29, 1114-1124.	1.7	62
1457	Photosynthetic capacity of tropical montane tree species in relation to leaf nutrients, successional strategy and growth temperature. <i>Oecologia</i> , 2015, 177, 1183-1194.	0.9	46
1458	Joint leaf chlorophyll content and leaf area index retrieval from Landsat data using a regularized model inversion system (REGFLEC). <i>Remote Sensing of Environment</i> , 2015, 159, 203-221.	4.6	114
1459	A profiling approach of the natural variability of foliar N remobilization at the rosette stage gives clues to understand the limiting processes involved in the low N use efficiency of winter oilseed rape. <i>Journal of Experimental Botany</i> , 2015, 66, 2461-2473.	2.4	41
1460	Using active canopy sensors and chlorophyll meters to estimate grapevine nitrogen status and productivity. <i>Precision Agriculture</i> , 2015, 16, 77-98.	3.1	58
1461	Variation in foliar respiration and wood CO <sub>2</sub> efflux rates among species and canopy layers in a wet tropical forest. <i>Tree Physiology</i> , 2015, 35, 148-159.	1.4	19

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1463	Inorganic nitrogen fertilizers induce changes in ammonium assimilation and gas exchange in <i>Camellia sinensis</i> L.. <i>Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry</i> , 2015, 39, 28-38.	0.8	15
1464	Short-term growth and morphological responses to nitrogen availability and plant density in hybrid poplars and willows. <i>Biomass and Bioenergy</i> , 2015, 81, 88-97.	2.9	21
1465	Light availability is improved for legume species grown in moderately N-fertilized mixtures with non-legume species. <i>Basic and Applied Ecology</i> , 2015, 16, 403-412.	1.2	3
1466	Nutrient limitation of eco-physiological processes in tropical trees. <i>Trees - Structure and Function</i> , 2015, 29, 1291-1300.	0.9	31
1467	Organismic Remote Sensing for Tropical Forest Ecology and Conservation <sup>1,</sup> <sup>2</sup>. <i>Annals of the Missouri Botanical Garden</i> , 2015, 100, 127-140.	1.3	24
1468	Leaf litter resource quality induces morphological changes in wood frog ( <i>Lithobates sylvaticus</i> ) metamorphs. <i>Oecologia</i> , 2015, 179, 667-677.	0.9	8
1469	Ecosystem CO<sub>2</sub> Exchange in Response to Nitrogen and Phosphorus Addition in a Restored, Temperate Grassland. <i>American Midland Naturalist</i> , 2015, 173, 73-87.	0.2	5
1470	Visual assessments of establishment success in urban <i>Prunus avium</i> (L.) and <i>Quercus rubra</i> (L.) in relation to water status and crown morphological characteristics. <i>Urban Forestry and Urban Greening</i> , 2015, 14, 218-224.	2.3	3
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1472	Tolerance vs. avoidance: two strategies of soybean ( <i>Glycine max</i> ) seedlings in response to shade in intercropping. <i>Photosynthetica</i> , 2015, 53, 259-268.	0.9	105
1473	Effects of nitrogen supply and of UV-C irradiation on the susceptibility of <i>Lactuca sativa</i> L to <i>Botrytis cinerea</i> and <i>Sclerotinia minor</i> . <i>Plant and Soil</i> , 2015, 393, 35-46.	1.8	14
1474	Small subunit of a cold-resistant plant, timothy, does not significantly alter the catalytic properties of Rubisco in transgenic rice. <i>Photosynthesis Research</i> , 2015, 124, 57-65.	1.6	8
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1476	The contrasting N management of two oilseed rape genotypes reveals the mechanisms of proteolysis associated with leaf N remobilization and the respective contributions of leaves and stems to N storage and remobilization during seed filling. <i>BMC Plant Biology</i> , 2015, 15, 59.	1.6	68
1477	Global-scale environmental control of plant photosynthetic capacity. <i>Ecological Applications</i> , 2015, 25, 2349-2365.	1.8	95
1478	Leaf chlorophyll constraint on model simulated gross primary productivity in agricultural systems. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2015, 43, 160-176.	1.4	48
1480	EFFECTS OF NH<sub>4</sub><sup>+</sup>â€“N/NO<sub>3</sub><sup>-</sup>â€“N RATIOS ON PHOTOSYNTHETIC CHARACTERISTICS, DRY MATTER YIELD AND NITRATE CONCENTRATION OF SPINACH. <i>Experimental Agriculture</i> , 2015, 51, 151-160.	0.4	18

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1482	A novel insight into the cost-benefit model for the evolution of botanical carnivory. <i>Annals of Botany</i> , 2015, 115, 1075-1092.	1.4	61
1483	Facilitation promotes changes in leaf economics traits of a perennial forb. <i>Oecologia</i> , 2015, 179, 103-116.	0.9	26
1484	Variations in leaf morphology and photosynthetic traits between sun and shade populations of <i>Eurya japonica</i> ( <i>Pentaphragmataceae</i> ) whose seeds are dispersed by birds across habitats. <i>Plant Species Biology</i> , 2015, 30, 147-158.	0.6	9
1485	Photosynthetic responses of two pleurocarpous mosses to low-level nitrogen addition: a study in an old-growth fir forest. <i>Journal of Bryology</i> , 2015, 37, 15-22.	0.4	12
1486	Higher photosynthetic capacity from higher latitude: foliar characteristics and gas exchange of southern, central and northern populations of <i>Populus angustifolia</i> . <i>Tree Physiology</i> , 2015, 35, 936-948.	1.4	42
1487	Growth habit and leaf economics determine gas exchange responses to high elevation in an evergreen tree, a deciduous shrub and a herbaceous annual. <i>AoB PLANTS</i> , 2015, 7, plv115.	1.2	18
1488	An empirical model that uses light attenuation and plant nitrogen status to predict within-canopy nitrogen distribution and upscale photosynthesis from leaf to whole canopy. <i>AoB PLANTS</i> , 2015, 7, plv116.	1.2	22
1489	Intraspecific variation in fine root respiration and morphology in response to in situ soil nitrogen fertility in a 100-year-old <i>Chamaecyparis obtusa</i> forest. <i>Oecologia</i> , 2015, 179, 959-967.	0.9	21
1490	Patterns and Mechanisms of Nutrient Resorption in Plants. <i>Critical Reviews in Plant Sciences</i> , 2015, 34, 471-486.	2.7	191
1491	Tree Foliar Chemistry in an African Savanna and Its Relation to Life History Strategies and Environmental Filters. <i>PLoS ONE</i> , 2015, 10, e0124078.	1.1	10
1492	Phenolic profile within the fine-root branching orders of an evergreen species highlights a disconnect in root tissue quality predicted by elemental and molecular level carbon composition. <i>New Phytologist</i> , 2015, 206, 1261-1273.	3.5	41
1493	Human footprints in urban forests: implication of nitrogen deposition for nitrogen and carbon storage. <i>Journal of Soils and Sediments</i> , 2015, 15, 1927-1936.	1.5	30
1494	A worldwide analysis of within-canopy variations in leaf structural, chemical and physiological traits across plant functional types. <i>New Phytologist</i> , 2015, 205, 973-993.	3.5	324
1495	Leaf Nitrogen Content Indirectly Estimated by Leaf Traits Derived From the PROSPECT Model. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 3172-3182.	2.3	73
1496	Seedling growth and biomass allocation in relation to leaf habit and shade tolerance among 10 temperate tree species. <i>Tree Physiology</i> , 2015, 35, 879-893.	1.4	41
1497	Elements and ectomycorrhizal symbiosis affecting the growth of Japanese larch seedlings regenerated on slopes of an active volcano in northern Japan. <i>Trees - Structure and Function</i> , 2015, 29, 1567-1579.	0.9	9
1498	Invasive insect effects on nitrogen cycling and host physiology are not tightly linked. <i>Tree Physiology</i> , 2015, 35, 124-133.	1.4	15

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1500	Seasonal variations in photosynthetic parameters and leaf area index in an urban park. <i>Urban Forestry and Urban Greening</i> , 2015, 14, 1059-1067.	2.3	14
1501	Plant density alters nitrogen partitioning among photosynthetic components, leaf photosynthetic capacity and photosynthetic nitrogen use efficiency in field-grown cotton. <i>Field Crops Research</i> , 2015, 184, 39-49.	2.3	57
1502	High-throughput transformation pipeline for a Brazilian japonica rice with bar gene selection. <i>Protoplasma</i> , 2015, 252, 1071-1083.	1.0	6
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1507	Phosphorus recycling in photorespiration maintains high photosynthetic capacity in woody species. <i>Plant, Cell and Environment</i> , 2015, 38, 1142-1156.	2.8	82
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1521	Effects of Bentonite, Charcoal and Corncob for Soil Improvement and Growth Characteristics of Teak Seedling Planted on Acrisols in Northeast Thailand. <i>Forests</i> , 2016, 7, 36.	0.9	7
1522	Growth Characteristics of Ectomycorrhizal Seedlings of <i>Quercus glauca</i> , <i>Quercus salicina</i> , <i>Quercus myrsinaefolia</i> , and <i>Castanopsis cuspidata</i> Planted in Calcareous Soil. <i>Forests</i> , 2016, 7, 266.	0.9	6
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1524	Vegetation Indices for Mapping Canopy Foliar Nitrogen in a Mixed Temperate Forest. <i>Remote Sensing</i> , 2016, 8, 491.	1.8	63
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1534	Geographic, environmental and biotic sources of variation in the nutrient relations of tropical montane forests. <i>Journal of Tropical Ecology</i> , 2016, 32, 368-383.	0.5	41
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1537	Efficiency of chlorophyll in gross primary productivity: A proof of concept and application in crops. <i>Journal of Plant Physiology</i> , 2016, 201, 101-110.	1.6	30
1538	Wheat ear carbon assimilation and nitrogen remobilization contribute significantly to grain yield. <i>Journal of Integrative Plant Biology</i> , 2016, 58, 914-926.	4.1	38
1539	Ecophysiological Considerations for Restoration. , 2016, , 153-181.		10
1540	Representing leaf and root physiological traits in CLM improves global carbon and nitrogen cycling predictions. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 598-613.	1.3	93
1541	Increasing aridity, temperature and soil pH induce soil C-N-P imbalance in grasslands. <i>Scientific Reports</i> , 2016, 6, 19601.	1.6	124
1542	Clonal Variation in Photosynthesis, Foliar Nutrient Concentrations, and Photosynthetic Nutrient Use Efficiency in a Brazil Nut ( <i>Bertholletia excelsa</i> ) Plantation. <i>Forest Science</i> , 2016, 62, 323-332.	0.5	12
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1544	Responses of photosynthetic parameters to differences in winter temperatures throughout a temperature gradient in two evergreen tree species. <i>European Journal of Forest Research</i> , 2016, 135, 871-883.	1.1	5
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1547	Nitrogen can improve the rapid response of photosynthesis to changing irradiance in rice ( <i>Oryza</i> ) Tj ETQq1 1 0.784314 rgBT /Overloc 1.6 65	1.6	65
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1549	Nutrient Dynamics as Determinants and Outcomes of Restoration. , 2016, , 333-364.		0
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1551	Future challenges in coupled C-N-P cycle models for terrestrial ecosystems under global change: a review. <i>Biogeochemistry</i> , 2016, 131, 173-202.	1.7	75
1552	Leaf age dependent changes in within-canopy variation in leaf functional traits: a meta-analysis. <i>Journal of Plant Research</i> , 2016, 129, 313-338.	1.2	72
1553	Legumes are different: Leaf nitrogen, photosynthesis, and water use efficiency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4098-4103.	3.3	195

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1554	Plant functional constraints guide macroevolutionary trade-offs in competitive and conservative growth responses to nitrogen. <i>Functional Ecology</i> , 2016, 30, 1099-1108.	1.7	27
1555	Plant hydraulic responses to long-term dry season nitrogen deposition alter drought tolerance in a Mediterranean-type ecosystem. <i>Oecologia</i> , 2016, 181, 721-731.	0.9	32
1556	Effects of road dust on the growth characteristics of <i>Sophora japonica</i> L. seedlings. <i>Journal of Environmental Sciences</i> , 2016, 46, 147-155.	3.2	8
1557	Yield and quality of eggplant ( <i>Solanum melongena</i> L.) as affected by cover crop species and residue management. <i>Scientia Horticulturae</i> , 2016, 204, 161-171.	1.7	23
1558	Separating species and environmental determinants of leaf functional traits in temperate rainforest plants along a soil-development chronosequence. <i>Functional Plant Biology</i> , 2016, 43, 751.	1.1	17
1559	Branch growth dynamics, photosynthesis, yield and bean size distribution in response to fruit load manipulation in coffee trees. <i>Trees - Structure and Function</i> , 2016, 30, 1275-1285.	0.9	31
1560	Leaf photosynthesis and associations with grain yield, biomass and nitrogen-use efficiency in landraces, synthetic-derived lines and cultivars in wheat. <i>Field Crops Research</i> , 2016, 193, 1-15.	2.3	128
1561	Seasonal variability of multiple leaf traits captured by leaf spectroscopy at two temperate deciduous forests. <i>Remote Sensing of Environment</i> , 2016, 179, 1-12.	4.6	121
1562	Nitrogen fertilization interacts with light to increase <i>Rubus</i> spp. cover in a temperate forest. <i>Plant Ecology</i> , 2016, 217, 421-430.	0.7	29
1563	Morphological and physicochemical traits of leaves of different life-forms of various broadleaf woody plants in interior Alaska. <i>Canadian Journal of Forest Research</i> , 2016, 46, 1475-1482.	0.8	9
1564	A portrait of the C <sub>4</sub> photosynthetic family on the 50th anniversary of its discovery: species number, evolutionary lineages, and Hall of Fame. <i>Journal of Experimental Botany</i> , 2016, 67, 4039-4056.	2.4	157
1565	Soil heterotrophic respiration is insensitive to changes in soil water content but related to microbial access to organic matter. <i>Geoderma</i> , 2016, 274, 68-78.	2.3	51
1566	Nutrient allocation among plant organs across 13 tree species in three Bornean rain forests with contrasting nutrient availabilities. <i>Journal of Plant Research</i> , 2016, 129, 675-684.	1.2	15
1567	Interactive effects of rising CO <sub>2</sub> and elevated nitrogen and phosphorus on nitrogen allocation in invasive weeds <i>Mikania micrantha</i> and <i>Chromolaena odorata</i> . <i>Biological Invasions</i> , 2016, 18, 1391-1407.	1.2	15
1568	Optimality of nitrogen distribution among leaves in plant canopies. <i>Journal of Plant Research</i> , 2016, 129, 299-311.	1.2	36
1569	Improved analysis of C <sub>4</sub> and C <sub>3</sub> photosynthesis via refined <i>in vitro</i> assays of their carbon fixation biochemistry. <i>Journal of Experimental Botany</i> , 2016, 67, 3137-3148.	2.4	81
1570	Genome-wide identification and functional prediction of nitrogen-responsive intergenic and intronic long non-coding RNAs in maize ( <i>Zea mays</i> L.). <i>BMC Genomics</i> , 2016, 17, 350.	1.2	107
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1573	Effect of Nitrogen on the Dynamics of Leaf Population Demography in Whole Plants of <i>Wedelia trilobata</i> . <i>International Journal of Plant Sciences</i> , 2016, 177, 694-705.	0.6	1
1574	<i>Vaccinium myrtillus</i> stands show similar structure and functioning under different scenarios of coexistence at the Pyrenean treeline. <i>Plant Ecology</i> , 2016, 217, 1115-1128.	0.7	21
1575	Response of terrestrial carbon dynamics to snow cover change: A meta-analysis of experimental manipulation (II). <i>Soil Biology and Biochemistry</i> , 2016, 103, 388-393.	4.2	24
1576	Evapotranspiration and water use efficiency in relation to climate and canopy nitrogen in U.S. forests. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2610-2629.	1.3	43
1577	Potential and limitations of inferring ecosystem photosynthetic capacity from leaf functional traits. <i>Ecology and Evolution</i> , 2016, 6, 7352-7366.	0.8	29
1578	Integrating chlorophyll fAPAR and nadir photochemical reflectance index from EO-1/Hyperion to predict cornfield daily gross primary production. <i>Remote Sensing of Environment</i> , 2016, 186, 311-321.	4.6	22
1579	Altitudinal changes in leaf hydraulic conductance across five <i>Rhododendron</i> species in eastern Nepal. <i>Tree Physiology</i> , 2016, 36, 1272-1282.	1.4	22
1580	Hydraulic constraints modify optimal photosynthetic profiles in giant sequoia trees. <i>Oecologia</i> , 2016, 182, 713-730.	0.9	27
1581	Proteome Analyses Using iTRAQ Labeling Reveal Critical Mechanisms in Alternate Bearing <i>Malus prunifolia</i> . <i>Journal of Proteome Research</i> , 2016, 15, 3602-3616.	1.8	30
1582	Adapting a regularized canopy reflectance model (REGFLEC) for the retrieval challenges of dryland agricultural systems. <i>Remote Sensing of Environment</i> , 2016, 186, 105-120.	4.6	32
1583	Effect of nitrogen rate and fertilizer nitrogen source on physiology, yield, grain quality, and nitrogen use efficiency in corn. <i>Canadian Journal of Plant Science</i> , 2016, 96, 392-403.	0.3	41
1585	Effect of light regime and provenance on leaf characteristics, growth and flavonoid accumulation in <i>Cyclocarya paliurus</i> (Batal) Iljinskaja coppices. , 2016, 57, 28.		45
1586	The influence of light habitat on the physiology, biomass allocation, and fecundity of the invasive shrub Amur honeysuckle ( <i>Lonicera maackii</i> , Caprifoliaceae)1. <i>Journal of the Torrey Botanical Society</i> , 2016, 143, 415.	0.1	16
1587	Leaf stable carbon isotope composition in <i>Picea schrenkiana</i> var. <i>tianschanica</i> in relation to leaf physiological and morphological characteristics along an altitudinal gradient. <i>Journal of Mountain Science</i> , 2016, 13, 1217-1228.	0.8	0
1588	Comparative response of <i>Brassica carinata</i> and <i>B. napus</i> vegetative growth, development and photosynthesis to nitrogen nutrition. <i>Industrial Crops and Products</i> , 2016, 94, 872-883.	2.5	42
1589	Leaf miner-induced morphological, physiological and molecular changes in mangrove plant <i>Avicennia marina</i> (Forsk.) Vierh. <i>Tree Physiology</i> , 2016, 37, 82-97.	1.4	10
1590	Invasive plant <i>Alternanthera philoxeroides</i> suffers more severe herbivory pressure than native competitors in recipient communities. <i>Scientific Reports</i> , 2016, 6, 36542.	1.6	12



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1592	CO2 Net Assimilation of Leaves. <i>Structure and Function of Mountain Ecosystems in Japan</i> , 2016, , 33-46.	0.1	0
1593	Difference in leaf water use efficiency/photosynthetic nitrogen use efficiency of Bt-cotton and its conventional peer. <i>Scientific Reports</i> , 2016, 6, 33539.	1.6	18
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1595	CO2, Temperature, and Trees. <i>Structure and Function of Mountain Ecosystems in Japan</i> , 2016, , .	0.1	4
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1598	Light-exposed shoots of seven coexisting deciduous species show common photosynthetic responses to tree height. <i>Oecologia</i> , 2016, 182, 373-383.	0.9	5
1599	Reduced stem growth, but no reserve depletion or hydraulic impairment in beech suffering from long-term decline. <i>Trees - Structure and Function</i> , 2016, 30, 265-279.	0.9	21
1600	Estimation of leaf nitrogen concentrations in <i>Quercus robur</i> L. using the CCM-200 portable chlorophyll meter for different patterns of vegetative growth and acorn production. <i>New Forests</i> , 2016, 47, 513-527.	0.7	3
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1602	Effects of arbuscular mycorrhizae on tomato yield, nutrient uptake, water relations, and soil carbon dynamics under deficit irrigation in field conditions. <i>Science of the Total Environment</i> , 2016, 566-567, 1223-1234.	3.9	164
1603	Effects of nitrogen and phosphorus supply on growth and physiological traits of two <i>Larix</i> species. <i>Environmental and Experimental Botany</i> , 2016, 130, 206-215.	2.0	36
1604	Large-scale climatic and geophysical controls on the leaf economics spectrum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4043-51.	3.3	93
1605	Response of the leaf photosynthetic rate to available nitrogen in erect panicle-type rice ( <i>Oryza sativa</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.9	6
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1607	Seasonal dynamics of nitrogen level and gas exchange in different cohorts of Scots pine needles: a conflict between nitrogen mobilization and photosynthesis?. <i>European Journal of Forest Research</i> , 2016, 135, 483-493.	1.1	30
1608	Long-term nitrogen deposition linked to reduced water use efficiency in forests with low phosphorus availability. <i>New Phytologist</i> , 2016, 210, 431-442.	3.5	85

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1610	The Type II NADPH Dehydrogenase Facilitates Cyclic Electron Flow, Energy-Dependent Quenching, and Chlororespiratory Metabolism during Acclimation of <i>Chlamydomonas reinhardtii</i> to Nitrogen Deprivation. <i>Plant Physiology</i> , 2016, 170, 1975-1988.	2.3	51
1611	Sucking herbivore assemblage composition on greenhouse <i>Ficus</i> correlates with host plant leaf architecture. <i>Arthropod-Plant Interactions</i> , 2016, 10, 55-69.	0.5	6
1612	Inter- and intraspecific variation in stomatal pore area index along elevational gradients and its relation to leaf functional traits. <i>Plant Ecology</i> , 2016, 217, 229-240.	0.7	39
1613	Higher photosynthetic capacity and different functional trait scaling relationships in erect bryophytes compared with prostrate species. <i>Oecologia</i> , 2016, 180, 359-369.	0.9	27
1614	Photosynthesis, light energy partitioning, and photoprotection in the shade-demanding species <i>Panax notoginseng</i> under high and low level of growth irradiance. <i>Functional Plant Biology</i> , 2016, 43, 479.	1.1	44
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1616	A carnivorous sundew plant prefers protein over chitin as a source of nitrogen from its traps. <i>Plant Physiology and Biochemistry</i> , 2016, 104, 11-16.	2.8	18
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1618	Transgenic tobacco plants with improved cyanobacterial Rubisco expression but no extra assembly factors grow at near wild-type rates if provided with elevated $CO_2$ . <i>Plant Journal</i> , 2016, 85, 148-160.	2.8	102
1619	Enhanced photosynthetic capacity by perennials in the riparian zone of the Three Gorges Reservoir Area, China. <i>Ecological Engineering</i> , 2016, 90, 6-11.	1.6	11
1620	LiDAR canopy radiation model reveals patterns of photosynthetic partitioning in an Arctic shrub. <i>Agricultural and Forest Meteorology</i> , 2016, 221, 78-93.	1.9	28
1621	Addition of nitrogen fertiliser increases net ecosystem carbon dioxide uptake and the loss of soil organic carbon in grassland growing in mesocosms. <i>Geoderma</i> , 2016, 266, 75-83.	2.3	19
1622	Community structure and leaf trait heterogeneity in a deciduous thicket community of the Middle Zambezi River Valley, Zambia. <i>South African Journal of Botany</i> , 2016, 103, 222-229.	1.2	0
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1624	Genetic map construction and QTL analysis of nitrogen use efficiency in spinach ( <i>Spinacia oleracea</i> L.). <i>Euphytica</i> , 2016, 208, 621-636.	0.6	26
1625	Sex and heavy metals: Study of sexual dimorphism in response to soil pollution. <i>Environmental and Experimental Botany</i> , 2016, 126, 68-75.	2.0	9
1626	Proximal optical sensing of cucumber crop N status using chlorophyll fluorescence indices. <i>European Journal of Agronomy</i> , 2016, 73, 83-97.	1.9	49

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1628	Vegetative, physiological and nutritional behavior of new grapevine rootstocks in response to different nitrogen supply. <i>Scientia Horticulturae</i> , 2016, 202, 99-106.	1.7	15
1629	Tree Nutrient Status and Nutrient Cycling in Tropical Forest—Lessons from Fertilization Experiments. <i>Tree Physiology</i> , 2016, , 275-297.	0.9	22
1630	Is Photosynthesis Nutrient Limited in Tropical Trees?. <i>Tree Physiology</i> , 2016, , 299-315.	0.9	8
1631	Nondestructive Optical Sensing of Flavonols and Chlorophyll in White Head Cabbage ( <i>Brassica</i> ) <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 85-94.	2.4	39
1632	Modeling Leaf Gas Exchange. <i>Advances in Photosynthesis and Respiration</i> , 2016, , 61-100.	1.0	17
1633	Examining spectral reflectance features related to foliar nitrogen in forests: Implications for broad-scale nitrogen mapping. <i>Remote Sensing of Environment</i> , 2016, 173, 174-186.	4.6	60
1634	Mitigative effects of spermidine on photosynthesis and carbon–nitrogen balance of cucumber seedlings under Ca(NO <sub>3</sub> ) <sub>2</sub> stress. <i>Journal of Plant Research</i> , 2016, 129, 79-91.	1.2	12
1635	Regulation of Leaf Traits in Canopy Gradients. <i>Advances in Photosynthesis and Respiration</i> , 2016, , 143-168.	1.0	14
1636	Optimization and Game Theory in Canopy Models. <i>Advances in Photosynthesis and Respiration</i> , 2016, , 355-377.	1.0	45
1637	How can we make plants grow faster? A source–sink perspective on growth rate. <i>Journal of Experimental Botany</i> , 2016, 67, 31-45.	2.4	228
1638	Suppression of nighttime sap flux with lower stem photosynthesis in Eucalyptus trees. <i>International Journal of Biometeorology</i> , 2016, 60, 545-556.	1.3	14
1639	ECOPHYSIOLOGICAL TRAITS OF ADULT TREES OF CRIOLLO COCOA CULTIVARS ( <i>THEOBROMA</i> )	0.4	42
1640	Specific leaf area variations drive acclimation of <i>Cistus salvifolius</i> in different light environments. <i>Photosynthetica</i> , 2017, 55, 31-40.	0.9	31
1641	Age-related changes of leaf traits and stoichiometry in an alpine shrub ( <i>Rhododendron agglutinatum</i> ) along altitudinal gradient. <i>Journal of Mountain Science</i> , 2017, 14, 106-118.	0.8	10
1642	Transgenically altered lignin biosynthesis affects photosynthesis and water relations of field-grown <i>Populus trichocarpa</i> . <i>Biomass and Bioenergy</i> , 2017, 98, 15-25.	2.9	6
1643	Asymmetric sensitivity of ecosystem carbon and water processes in response to precipitation change in a semi-arid steppe. <i>Functional Ecology</i> , 2017, 31, 1301-1311.	1.7	84
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1646	The "plant economic spectrum"™ in bryophytes, a comparative study in subalpine forest. <i>American Journal of Botany</i> , 2017, 104, 261-270.	0.8	31
1647	Physiological and structural tradeoffs underlying the leaf economics spectrum. <i>New Phytologist</i> , 2017, 214, 1447-1463.	3.5	412
1648	Post-fire environments are favourable for plant functioning of seeder and resprouter Mediterranean shrubs, even under drought. <i>New Phytologist</i> , 2017, 214, 1118-1131.	3.5	28
1649	Abiotic and biotic drivers of biomass change in a Neotropical forest. <i>Journal of Ecology</i> , 2017, 105, 1223-1234.	1.9	112
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1651	Invasion and succession change the functional traits of serpentine plant communities <sup>1,3</sup> . <i>Journal of the Torrey Botanical Society</i> , 2017, 144, 109.	0.1	7
1652	Nitrogen and phosphorus availabilities interact to modulate leaf trait scaling relationships across six plant functional types in a controlled environment study. <i>New Phytologist</i> , 2017, 215, 992-1008.	3.5	41
1653	Fertilization stimulate root production in cloudberry rhizomes transplanted in a cutover peatland. <i>Canadian Journal of Plant Science</i> , 0, , .	0.3	1
1654	Feasibility of using smart phones to estimate chlorophyll content in corn plants. <i>Photosynthetica</i> , 2017, 55, 603-610.	0.9	24
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1656	Evaluation of seasonal variations of remotely sensed leaf area index over five evergreen coniferous forests. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 130, 187-201.	4.9	33
1657	Effects of shade-tree species and spacing on soil and leaf nutrient concentrations in cocoa plantations at 8 years after establishment. <i>Agriculture, Ecosystems and Environment</i> , 2017, 246, 134-143.	2.5	46
1658	Application of a simplified method of chloroplast enrichment to small amounts of tissue for chloroplast genome sequencing. <i>Applications in Plant Sciences</i> , 2017, 5, 1700002.	0.8	19
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1660	Influence of Light, Temperature, and Macronutrients on Growth and Scopolamine Biosynthesis in <i>Duboisia</i> species. <i>Planta Medica</i> , 2017, 83, 937-945.	0.7	12
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1665	Canopy light and nitrogen distributions are related to grain yield and nitrogen use efficiency in rice. <i>Field Crops Research</i> , 2017, 206, 74-85.	2.3	98
1666	Autumn photosynthetic decline and growth cessation in seedlings of white spruce are decoupled under warming and photoperiod manipulations. <i>Plant, Cell and Environment</i> , 2017, 40, 1296-1316.	2.8	32
1667	Biological limits on nitrogen use for plant photosynthesis: a quantitative revision comparing cultivated and wild species. <i>New Phytologist</i> , 2017, 214, 120-131.	3.5	41
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1669	Effects of irrigation and addition of nitrogen fertiliser on net ecosystem carbon balance for a grassland. <i>Science of the Total Environment</i> , 2017, 579, 1715-1725.	3.9	35
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1671	Stomatal conductance, mesophyll conductance, and transpiration efficiency in relation to leaf anatomy in rice and wheat genotypes under drought. <i>Journal of Experimental Botany</i> , 2017, 68, 5191-5205.	2.4	165
1672	Effects of increased soil fertility and plant growth-promoting rhizobacteria inoculation on biomass yield, energy value, and physiological response of poplar in short-rotation coppices in a reclaimed tideland: A case study in the Saemangeum area of Korea. <i>Biomass and Bioenergy</i> , 2017, 107, 29-38.	2.9	12
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1674	Leaf characters of <i>Ulmus elongata</i> in fragmented habitats: Implications for conservation. <i>Acta Oecologica Sinica</i> , 2017, 37, 346-353.	0.9	4
1675	Differential rubisco content and photosynthetic efficiency of rol gene integrated <i>Vinca minor</i> transgenic plant: Correlating factors associated with morpho-anatomical changes, gene expression and alkaloid productivity. <i>Journal of Plant Physiology</i> , 2017, 219, 12-21.	1.6	12
1676	Endophyte Effects on Photosynthesis and Water Use of Plant Hosts: A Meta-Analysis. , 2017, , 43-69.		6
1677	Functional Importance of the Plant Microbiome. , 2017, , .		20
1678	Light as a regulator of structural and chemical leaf defenses against insects in two <i>Prunus</i> species. <i>Acta Oecologica</i> , 2017, 85, 18-24.	0.5	5
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1680	Adaptation and acclimation both influence photosynthetic and respiratory temperature responses in <i>Corymbia calophylla</i> . <i>Tree Physiology</i> , 2017, 37, 1095-1112.	1.4	40

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1682	Phosphorus and nitrogen resorption from different chemical fractions in senescing leaves of tropical tree species on Mount Kinabalu, Borneo. <i>Oecologia</i> , 2017, 185, 171-180.	0.9	40
1683	Photochemical performance of <i>Carpobrotus edulis</i> in response to various substrate salt concentrations. <i>South African Journal of Botany</i> , 2017, 111, 258-266.	1.2	9
1684	Pollen derived blue fluorescent carbon dots for bioimaging and monitoring of nitrogen, phosphorus and potassium uptake in <i>Brassica parachinensis</i> . <i>RSC Advances</i> , 2017, 7, 33459-33465.	1.7	39
1685	Productivity and CO <sub>2</sub> Exchange of Great Plains Ecoregions. I. Shortgrass Steppe: Flux Tower Estimates. <i>Rangeland Ecology and Management</i> , 2017, 70, 700-717.	1.1	7
1686	The impact of modifying photosystem antenna size on canopy photosynthetic efficiency—Development of a new canopy photosynthesis model scaling from metabolism to canopy level processes. <i>Plant, Cell and Environment</i> , 2017, 40, 2946-2957.	2.8	81
1687	High growth temperatures and high soil nitrogen do not alter differences in CO <sub>2</sub> assimilation between invasive <i>Phalaris arundinacea</i> (reed canarygrass) and <i>Carex stricta</i> (tussock sedge). <i>American Journal of Botany</i> , 2017, 104, 999-1007.	0.8	1
1688	N <sub>2</sub> -fixing tropical legume evolution: a contributor to enhanced weathering through the Cenozoic?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170370.	1.2	26
1689	Nitrogen-induced variations in leaf gas exchange of spring triticale under field conditions. <i>Acta Physiologiae Plantarum</i> , 2017, 39, 1.	1.0	9
1690	Partial loss-of-function of NAL1 alters canopy photosynthesis by changing the contribution of upper and lower canopy leaves in rice. <i>Scientific Reports</i> , 2017, 7, 15958.	1.6	15
1691	Comparative responses of early successional plants to charcoal soil amendments. <i>Ecosphere</i> , 2017, 8, e01933.	1.0	34
1692	How well do growing season dynamics of photosynthetic capacity correlate with leaf biochemistry and climate fluctuations?. <i>Tree Physiology</i> , 2017, 37, 879-888.	1.4	21
1694	Leaf photosynthetic rate and mesophyll cell anatomy changes during ontogenesis in backcrossed <i>indica</i> — <i>japonica</i> rice inbred lines. <i>Photosynthesis Research</i> , 2017, 134, 27-38.	1.6	16
1695	Nitrogen-controlled intra- and interspecific competition between <i>Populus purdomii</i> and <i>Salix rehderiana</i> drive primary succession in the Gongga Mountain glacier retreat area. <i>Tree Physiology</i> , 2017, 37, 799-814.	1.4	34
1696	Weak coordination between leaf structure and function among closely related tomato species. <i>New Phytologist</i> , 2017, 213, 1642-1653.	3.5	40
1697	Effects of co-overexpression of the genes of Rubisco and transketolase on photosynthesis in rice. <i>Photosynthesis Research</i> , 2017, 131, 281-289.	1.6	43
1698	Effects of arbuscular mycorrhizal fungi inoculation on carbon and nitrogen distribution and grain yield and nutritional quality in rice ( <i>Oryza sativa</i> L.). <i>Journal of the Science of Food and Agriculture</i> , 2017, 97, 2919-2925.	1.7	39
1699	A shift from arbuscular mycorrhizal to dark septate endophytic colonization in <i>Deschampsia flexuosa</i> roots occurs along primary successional gradient. <i>Mycorrhiza</i> , 2017, 27, 129-138.	1.3	18

#	ARTICLE	IF	CITATIONS
1700	Global resource acquisition patterns of invasive and native plant species do not hold at the regional scale in Mediterranean type ecosystems. <i>Biological Invasions</i> , 2017, 19, 1143-1151.	1.2	15
1701	An assessment of carbon and nutrient limitations in the formation of the southern Andes tree line. <i>Journal of Ecology</i> , 2017, 105, 517-527.	1.9	30
1702	Passive warming reduces stress and shifts reproductive effort in the Antarctic moss, <i>Polytrichastrum alpinum</i> . <i>Annals of Botany</i> , 2017, 119, 27-38.	1.4	18
1703	Mapping wheat nitrogen uptake from RapidEye vegetation indices. <i>Precision Agriculture</i> , 2017, 18, 429-451.	3.1	53
1704	Nitrogen fertigation effect on photosynthesis, grain yield and water use efficiency of winter wheat. <i>Agricultural Water Management</i> , 2017, 179, 277-287.	2.4	88
1705	Retrieval of seasonal Rubisco-limited photosynthetic capacity at global FLUXNET sites from hyperspectral satellite remote sensing: Impact on carbon modelling. <i>Agricultural and Forest Meteorology</i> , 2017, 232, 74-88.	1.9	51
1706	Canopy foliar nitrogen retrieved from airborne hyperspectral imagery by correcting for canopy structure effects. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2017, 54, 84-94.	1.4	35
1707	Leaf-level photosynthetic capacity in lowland Amazonian and high-elevation Andean tropical moist forests of Peru. <i>New Phytologist</i> , 2017, 214, 1002-1018.	3.5	89
1708	Allomorphic growth of <i>Epipremnum aureum</i> (Araceae) as characterized by changes in leaf morphophysiology during the transition from ground to canopy. <i>Revista Brasileira De Botanica</i> , 2017, 40, 177-191.	0.5	9
1709	C <sub>4</sub> photosynthesis in C <sub>3</sub> rice: a theoretical analysis of biochemical and anatomical factors. <i>Plant, Cell and Environment</i> , 2017, 40, 80-94.	2.8	36
1710	Light availability and soil flooding regulate photosynthesis of an imperiled shrub in lowland forests of the Mississippi Alluvial Valley, USA. <i>Photosynthetica</i> , 2017, 55, 411-420.	0.9	5
1711	Defense gene expression and phenotypic changes of rice ( <i>Oryza sativa</i> L.) at the reproductive stage in response to whitebacked planthopper ( <i>Sogatella furcifera</i> Horvath) infestation. <i>Cereal Research Communications</i> , 2017, 45, 456-465.	0.8	4
1712	Time series from hyperion to track productivity in pivot agriculture in saudi arabia. , 2017, , .		3
1713	Can adjustments in foliar nitrogen-use efficiency reduce drought stress impacts on boreal trees?. <i>Tree Physiology</i> , 2017, 37, 415-417.	1.4	8
1714	Differences in the photosynthetic plasticity of ferns and Ginkgo grown in experimentally controlled low [O <sub>2</sub> ]:[CO <sub>2</sub> ] atmospheres may explain their contrasting ecological fate across the Triassic-Jurassic mass extinction boundary. <i>Annals of Botany</i> , 2017, 119, 1385-1395.	1.4	12
1715	Leaf Respiration in Terrestrial Biosphere Models. <i>Advances in Photosynthesis and Respiration</i> , 2017, , 107-142.	1.0	25
1716	Linking photosynthesis and leaf N allocation under future elevated CO <sub>2</sub> and climate warming in <i>Eucalyptus globulus</i> . <i>Journal of Experimental Botany</i> , 2017, 68, erw484.	2.4	32
1717	Canopy gradients in leaf functional traits for species that differ in growth strategies and shade tolerance. <i>Tree Physiology</i> , 2017, 37, 1415-1425.	1.4	30

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1718	A Small Decrease in Rubisco Content by Individual Suppression of RBCS Genes Leads to Improvement of Photosynthesis and Greater Biomass Production in Rice Under Conditions of Elevated CO <sub>2</sub> . <i>Plant and Cell Physiology</i> , 2017, 58, 635-642.	1.5	41
1719	Parallel functional and stoichiometric trait shifts in South American and African forest communities with elevation. <i>Biogeosciences</i> , 2017, 14, 5313-5321.	1.3	15
1720	Nitrogen Distribution in Leaf Canopies of High-Yielding Rice Cultivar Takanari. <i>Crop Science</i> , 2017, 57, 2080-2088.	0.8	16
1721	Evaluation of yield and some physiological traits of forage corn affected by chemical and biological nitrogen fertilizers intercropped with sweet basil. <i>Journal of Central European Agriculture</i> , 2017, 18, 477-493.	0.3	2
1722	Non-photochemical Quenching Plays a Key Role in Light Acclimation of Rice Plants Differing in Leaf Color. <i>Frontiers in Plant Science</i> , 2016, 7, 1968.	1.7	70
1723	Abscisic Acid Signaling and Abiotic Stress Tolerance in Plants: A Review on Current Knowledge and Future Prospects. <i>Frontiers in Plant Science</i> , 2017, 08, 161.	1.7	825
1724	High Nitrogen Supply Induces Physiological Responsiveness to Long Photoperiod in Barley. <i>Frontiers in Plant Science</i> , 2017, 8, 569.	1.7	8
1725	Assessing the Effects of Water Deficit on Photosynthesis Using Parameters Derived from Measurements of Leaf Gas Exchange and of Chlorophyll a Fluorescence. <i>Frontiers in Plant Science</i> , 2017, 8, 2068.	1.7	98
1726	Limited Effects of Water Absorption on Reducing the Accuracy of Leaf Nitrogen Estimation. <i>Remote Sensing</i> , 2017, 9, 291.	1.8	12
1727	A portrait of the C <sub>4</sub> photosynthetic family on the 50th anniversary of its discovery: species number, evolutionary lineages, and Hall of Fame. <i>Journal of Experimental Botany</i> , 2017, 68, 4039-4056.	2.4	58
1728	An Operational Framework for the Advancement of a Molecule-to-Biosphere Stoichiometry Theory. <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	14
1729	Relationship between nitrogen resorption and leaf size in the arid vine <i>Rhodospatha oblongata</i> (Araceae). <i>Australian Journal of Botany</i> , 2017, 65, 431.	0.3	7
1730	Variation in photosynthetic traits related to access to water in semiarid Australian woody species. <i>Functional Plant Biology</i> , 2017, 44, 1087.	1.1	14
1731	Assessment of Canopy Chlorophyll Content Retrieval in Maize and Soybean: Implications of Hysteresis on the Development of Generic Algorithms. <i>Remote Sensing</i> , 2017, 9, 226.	1.8	85
1732	Soybean Architecture Plants: From Solar Radiation Interception to Crop Protection. , 0, , .		4
1733	Beyond greenness: Detecting temporal changes in photosynthetic capacity with hyperspectral reflectance data. <i>PLoS ONE</i> , 2017, 12, e0189539.	1.1	51
1734	Acclimation to light and avoidance of photoinhibition in <i>Typha latifolia</i> is associated with high photosynthetic capacity and xanthophyll pigment content. <i>Functional Plant Biology</i> , 2017, 44, 774.	1.1	4
1735	Mutant selection in the self-incompatible plant radish (&lt;i>Raphanus sativus</i>, L.) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.9	14



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1736	Earth System Model Needs for Including the Interactive Representation of Nitrogen Deposition and Drought Effects on Forested Ecosystems. <i>Forests</i> , 2017, 8, 267.	0.9	21
1737	The interaction between nitrogen and phosphorous is a strong predictor of intra-plant variation in nitrogen isotope composition in a desert species. <i>Biogeosciences</i> , 2017, 14, 131-144.	1.3	10
1738	Leaf nitrogen from first principles: field evidence for adaptive variation with climate. <i>Biogeosciences</i> , 2017, 14, 481-495.	1.3	75
1740	Physiological, phenometric and productive changes in soybean crop due to the use of kinetin. <i>Pesquisa Agropecuaria Tropical</i> , 2017, 47, 80-86.	1.0	2
1741	Yield Potential and Nitrogen Requirements of <i>Miscanthus</i> – <i>giganteus</i> on Eroded Soil. <i>Agronomy Journal</i> , 2017, 109, 684-695.	0.9	13
1742	Mapping forest canopy nitrogen content by inversion of coupled leaf-canopy radiative transfer models from airborne hyperspectral imagery. <i>Agricultural and Forest Meteorology</i> , 2018, 253-254, 247-260.	1.9	67
1743	VOC emissions and carbon balance of two bioenergy plantations in response to nitrogen fertilization: A comparison of <i>Miscanthus</i> and <i>Salix</i> . <i>Environmental Pollution</i> , 2018, 237, 205-217.	3.7	18
1744	Overexpression of <i>IbSnRK1</i> enhances nitrogen uptake and carbon assimilation in transgenic sweetpotato. <i>Journal of Integrative Agriculture</i> , 2018, 17, 296-305.	1.7	9
1745	Hydrologic reinforcement induced by contrasting woody species during summer and winter. <i>Plant and Soil</i> , 2018, 427, 369-390.	1.8	23
1746	Effect of growth temperature on photosynthetic capacity and respiration in three ecotypes of <i>Eriophorum vaginatum</i> . <i>Ecology and Evolution</i> , 2018, 8, 3711-3725.	0.8	16
1747	Nitrogen acquisition, net production and allometry of <i>Alnus fruticosa</i> at a young moraine in Koryto Glacier Valley, Kamchatka, Russian Far East. <i>Journal of Plant Research</i> , 2018, 131, 759-769.	1.2	2
1748	Storage nitrogen co-ordinates leaf expansion and photosynthetic capacity in winter oilseed rape. <i>Journal of Experimental Botany</i> , 2018, 69, 2995-3007.	2.4	83
1749	Chlorophyll fluorescence and gas exchange measurements in field research: an ecological case study. <i>Photosynthetica</i> , 2018, 56, 1161-1170.	0.9	20
1750	Drought induced tree mortality – a tree-ring isotope based conceptual model to assess mechanisms and predispositions. <i>New Phytologist</i> , 2018, 219, 485-490.	3.5	82
1751	Ozone risk assessment is affected by nutrient availability: Evidence from a simulation experiment under free air controlled exposure (FACE). <i>Environmental Pollution</i> , 2018, 238, 812-822.	3.7	26
1752	<i>Sonchus oleraceus</i> Residue Improves Nutritive and Health-Promoting Value of Common Bean ( <i>Phaseolus vulgaris</i> L.): A Metabolic Study. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 2092-2100.	2.4	14
1753	Decadal trends in photosynthetic capacity and leaf area index inferred from satellite remote sensing for global vegetation types. <i>Agricultural and Forest Meteorology</i> , 2018, 250-251, 361-375.	1.9	27
1754	The physiological processes and mechanisms for superior water productivity of a popular ground cover rice production system. <i>Agricultural Water Management</i> , 2018, 201, 11-20.	2.4	8

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1755	Leaf- and crown-level adjustments help giant sequoias maintain favorable water status during severe drought. <i>Forest Ecology and Management</i> , 2018, 419-420, 257-267.	1.4	15
1756	Component crop physiology and water use efficiency in response to intercropping. <i>European Journal of Agronomy</i> , 2018, 93, 27-39.	1.9	28
1757	Determining light stress responses for a tropical multi-species seagrass assemblage. <i>Marine Pollution Bulletin</i> , 2018, 128, 508-518.	2.3	16
1758	Phytoextraction of chromium from electroplating effluent by <i>Tagetes erecta</i> (L.). <i>Sustainable Environment Research</i> , 2018, 28, 128-134.	2.1	18
1759	Mesophyll conductance does not contribute to greater photosynthetic rate per unit nitrogen in temperate compared with tropical evergreen wetland forest tree leaves. <i>New Phytologist</i> , 2018, 218, 492-505.	3.5	30
1760	Traits indicating a conservative resource strategy are weakly related to narrow range size in a group of neotropical trees. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2018, 32, 30-37.	1.1	6
1761	Canopy nitrogen distribution is optimized to prevent photoinhibition throughout the canopy during sun flecks. <i>Scientific Reports</i> , 2018, 8, 503.	1.6	20
1762	Traits and climate are associated with first flowering day in herbaceous species along elevational gradients. <i>Ecology and Evolution</i> , 2018, 8, 1147-1158.	0.8	43
1763	Relationship between Rubisco activase and Rubisco contents in transgenic rice plants with overproduced or decreased Rubisco content. <i>Soil Science and Plant Nutrition</i> , 2018, 64, 352-359.	0.8	18
1764	Vacuolar Protein Degradation via Autophagy Provides Substrates to Amino Acid Catabolic Pathways as an Adaptive Response to Sugar Starvation in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2018, 59, 1363-1376.	1.5	49
1765	Leaf N resorption efficiency and litter N mineralization rate have a genotypic tradeoff in a silver birch population. <i>Ecology</i> , 2018, 99, 1227-1235.	1.5	13
1766	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.	1.4	8
1767	Photosynthetic acclimation of an evergreen broadleaved shrub ( <i>Ammopiptanthus mongolicus</i> ) to seasonal climate extremes on the Alxa Plateau, a cold desert ecosystem. <i>Trees - Structure and Function</i> , 2018, 32, 603-614.	0.9	8
1768	Physiological and transcriptomic analyses of a yellow-green mutant with high photosynthetic efficiency in wheat ( <i>Triticum aestivum</i> L.). <i>Functional and Integrative Genomics</i> , 2018, 18, 175-194.	1.4	21
1769	Comparisons of physiological and anatomical characteristics between two cultivars in bi-leader apple trees ( <i>Malus domestica</i> Borkh.) 1 1Abbreviations: Chl, chlorophyll; DABB, days after bud break; Gs, stomatal conductance; $\Psi^{\text{leaf}}$ , leaf water potential; $\Psi^{\text{MD}}$ , midday leaf water potential; $\Psi^{\text{PD}}$ , pre-dawn leaf water potential; LEC, lower epidermis cell; PPFD, photosynthetic photon flux density; Pn, net photosynthesis rate; Sd, stomatal density; SLW, specific leaf weight; UEC, upper epidermis cell; Ve, vessel; <i>Scientia Horticulturae</i> , 2018, 231, 73-81.	1.7	46
1770	Evaluation and improvement of the daily boreal ecosystem productivity simulator in simulating gross primary productivity at 41 flux sites across Europe. <i>Ecological Modelling</i> , 2018, 368, 205-232.	1.2	30
1771	Effect of nitrogen levels on photosynthetic parameters, morphological and chemical characters of saplings and trees in a temperate forest. <i>Journal of Forestry Research</i> , 2018, 29, 1481-1488.	1.7	21
1772	Suboptimal Acclimation of Photosynthesis to Light in Wheat Canopies. <i>Plant Physiology</i> , 2018, 176, 1233-1246.	2.3	67

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1773	Contrasting ecophysiology of two widespread arid zone tree species with differing access to water resources. <i>Journal of Arid Environments</i> , 2018, 153, 1-10.	1.2	15
1774	Foliar C, N, and P stoichiometry characterize successful plant ecological strategies in the Sonoran Desert. <i>Plant Ecology</i> , 2018, 219, 775-788.	0.7	47
1775	Predictable spatial patterns of biological nitrogen fixation in forest floor mosses: Color matters!. <i>Soil Biology and Biochemistry</i> , 2018, 122, 160-162.	4.2	3
1776	Invasive <i>Rhus typhina</i> invests more in height growth and traits associated with light acquisition than do native and non-invasive alien shrub species. <i>Trees - Structure and Function</i> , 2018, 32, 1103-1112.	0.9	11
1777	The Amount of Nitrogen Used for Photosynthesis Modulates Molecular Evolution in Plants. <i>Molecular Biology and Evolution</i> , 2018, 35, 1616-1625.	3.5	37
1778	High $V_{cmax}$ , $J_{max}$ and photosynthetic rates of Sonoran Desert species: Using nitrogen and specific leaf area traits as predictors in biochemical models. <i>Journal of Arid Environments</i> , 2018, 156, 1-8.	1.2	12
1779	A continental-scale assessment of variability in leaf traits: Within species, across sites and between seasons. <i>Functional Ecology</i> , 2018, 32, 1492-1506.	1.7	48
1780	Integrating satellite optical and thermal infrared observations for improving daily ecosystem functioning estimations during a drought episode. <i>Remote Sensing of Environment</i> , 2018, 209, 375-394.	4.6	45
1781	Potato Tuber Greening: a Review of Predisposing Factors, Management and Future Challenges. <i>American Journal of Potato Research</i> , 2018, 95, 248-257.	0.5	35
1782	Crops, Nitrogen, Water: Are Legumes Friend, Foe, or Misunderstood Ally?. <i>Trends in Plant Science</i> , 2018, 23, 539-550.	4.3	33
1783	Photosynthetic characteristics and simulation of annual leaf carbon gains of hybrid poplar ( <i>Populus</i> ) agroforestry system. <i>Agroforestry Systems</i> , 2018, 92, 1267-1286.	0.9	6
1784	ASSESSING NITROGEN NUTRITIONAL STATUS, BIOMASS AND YIELD OF COTTON WITH NDVI, SPAD AND PETIOLE SAP NITRATE CONCENTRATION. <i>Experimental Agriculture</i> , 2018, 54, 531-548.	0.4	28
1785	CRITICAL NITROGEN DILUTION CURVE AND NITROGEN NUTRITION INDEX FOR JUTE MALLOW ( <i>CORCHORUS</i> )	0.4	2
1786	Canopy height and N affect herbage accumulation and the relative contribution of leaf categories to photosynthesis of grazed brachiariagrass pastures. <i>Grass and Forage Science</i> , 2018, 73, 183-192.	1.2	26
1787	Response of dominant grassland species in the temperate steppe of Inner Mongolia to different land uses at leaf and ecosystem levels. <i>Photosynthetica</i> , 2018, 56, 921-931.	0.9	8
1788	Significance of accumulation of the alarmone (p)ppGpp in chloroplasts for controlling photosynthesis and metabolite balance during nitrogen starvation in <i>Arabidopsis</i> . <i>Photosynthesis Research</i> , 2018, 135, 299-308.	1.6	32
1789	Temperature responses of photosynthetic capacity parameters were not affected by foliar nitrogen content in <i>Pinus sylvestris</i> . <i>Physiologia Plantarum</i> , 2018, 162, 370-378.	2.6	7
1790	N and P resorption as functions of the needle age class in two conifer trees. <i>Journal of Plant Ecology</i> , 2018, 11, 780-788.	1.2	14

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1792	Postharvest physiology of <i>Corchorus olitorius</i> baby leaf growing with different nutrient solutions. <i>Journal of Horticultural Science and Biotechnology</i> , 2018, 93, 400-408.	0.9	4
1793	Mycorrhizal fungi enhance plant nutrient acquisition and modulate nitrogen loss with variable water regimes. <i>Global Change Biology</i> , 2018, 24, e171-e182.	4.2	105
1794	Trait means, trait plasticity and trait differences to other species jointly explain species performances in grasslands of varying diversity. <i>Oikos</i> , 2018, 127, 865-865.	1.2	30
1795	Contrasting responses of crop legumes and cereals to nitrogen availability. <i>New Phytologist</i> , 2018, 217, 1475-1483.	3.5	23
1796	Herbivory alters plant carbon assimilation, patterns of biomass allocation and nitrogen use efficiency. <i>Acta Oecologica</i> , 2018, 86, 9-16.	0.5	20
1797	The influence of a five-year nitrogen fertilization treatment on hydraulic architecture of <i>Pinus sylvestris</i> var. <i>mongolica</i> in a water-limited plantation of NE China. <i>Forest Ecology and Management</i> , 2018, 418, 15-22.	1.4	13
1798	PROCWT: Coupling PROSPECT with continuous wavelet transform to improve the retrieval of foliar chemistry from leaf bidirectional reflectance spectra. <i>Remote Sensing of Environment</i> , 2018, 206, 1-14.	4.6	63
1799	Tortoise or hare: Will resprouting oaks or reseeded pines dominate following severe wildfire?. <i>Forest Ecology and Management</i> , 2018, 408, 54-66.	1.4	12
1800	Expression and assembly of largest foreign protein in chloroplasts: oral delivery of human FVIII made in lettuce chloroplasts robustly suppresses inhibitor formation in haemophilia A mice. <i>Plant Biotechnology Journal</i> , 2018, 16, 1148-1160.	4.1	46
1801	Variation in leaf chlorophyll concentration from tropical to cold-temperate forests: Association with gross primary productivity. <i>Ecological Indicators</i> , 2018, 85, 383-389.	2.6	66
1802	Acclimation of photosynthesis to lightflecks in tomato leaves: interaction with progressive shading in a growing canopy. <i>Physiologia Plantarum</i> , 2018, 162, 506-517.	2.6	27
1803	Photosynthetic acclimation to long-term high temperature and soil drought stress in two spruce species ( <i>Picea crassifolia</i> and <i>P. wilsonii</i> ) used for afforestation. <i>Journal of Forestry Research</i> , 2018, 29, 363-372.	1.7	18
1804	Different Responses of Various Chlorophyll Meters to Increasing Nitrogen Supply in Sweet Pepper. <i>Frontiers in Plant Science</i> , 2018, 9, 1752.	1.7	61
1805	Photosynthetically distinct responses of an early-successional tree, <i>Betula ermanii</i> , following a defoliating disturbance: observational results of a manipulated typhoon-mimic experiment. <i>Trees - Structure and Function</i> , 2018, 32, 1789-1799.	0.9	5
1806	Mangroves in Contrasting Osmotic Environments: Photosynthetic Costs of High Salinity Tolerance. , 0, , .		1
1807	Within-Canopy Experimental Leaf Warming Induces Photosynthetic Decline Instead of Acclimation in Two Northern Hardwood Species. <i>Frontiers in Forests and Global Change</i> , 2018, 1, .	1.0	12
1808	Quantifying muskmelon fruit attributes with A-TEP-based model and machine vision measurement. <i>Journal of Integrative Agriculture</i> , 2018, 17, 1369-1379.	1.7	19

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1811	Simulation of Spaceborne Hyperspectral Remote Sensing to Assist Crop Nitrogen Content Monitoring in Agricultural Crops. , 2018, , .		2
1812	Assimilating solar-induced chlorophyll fluorescence into the terrestrial biosphere model BETHY-SCOPE v1.0: model description and information content. <i>Geoscientific Model Development</i> , 2018, 11, 1517-1536.	1.3	42
1813	Functional trait variation related to gap dynamics in tropical moist forests: A vegetation modelling perspective. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2018, 35, 52-64.	1.1	9
1814	Contrasting leaf-trait strategies in dominant liana and tree species of Indian tropical dry evergreen forest. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2018, 249, 143-149.	0.6	6
1815	Differences in Physiological Traits and Resistances of <i>Alternanthera philoxeroides</i> after Herbivory by Generalists and Specialists. <i>Journal of Plant Biochemistry &amp; Physiology</i> , 2018, 06, .	0.5	0
1816	Leaf Pigment Content. , 2018, , 117-142.		68
1817	Differences in physiological traits and resistances of <i>Alternanthera philoxeroides</i> after herbivory by generalists and specialists. <i>Aquatic Ecology</i> , 2018, 52, 323-332.	0.7	7
1818	Do Extended Cultivation Periods and Reduced Nitrogen Supply Increase Root Yield and Anthocyanin Content of Purple Carrots?. <i>Horticulturae</i> , 2018, 4, 7.	1.2	1
1819	Computational analysis of the effects of light gradients and neighbouring species on foliar nitrogen. <i>Ecological Informatics</i> , 2018, 48, 171-177.	2.3	3
1820	Responses of foliar carbohydrates and nutrient status of two distinctive cypress species to shading and nitrogen addition. <i>Global Ecology and Conservation</i> , 2018, 16, e00452.	1.0	1
1821	Thermal acclimation of leaf photosynthetic traits in an evergreen woodland, consistent with the coordination hypothesis. <i>Biogeosciences</i> , 2018, 15, 3461-3474.	1.3	27
1822	Soil nutrients indirectly influence intraspecific plant selection in white-tailed deer. <i>Basic and Applied Ecology</i> , 2018, 32, 103-109.	1.2	11
1823	Variations in ramet performance and the dynamics of an alpine evergreen herb, <i>Gentiana nipponica</i> , in different snowmelt conditions. <i>American Journal of Botany</i> , 2018, 105, 1813-1823.	0.8	5
1824	Photosynthesis in Poor Nutrient Soils, in Compacted Soils, and under Drought. <i>Advances in Photosynthesis and Respiration</i> , 2018, , 371-399.	1.0	15
1825	Green light drives photosynthesis in mosses. <i>Journal of Bryology</i> , 2018, 40, 342-349.	0.4	5
1826	The Leaf Economics Spectrum and its Underlying Physiological and Anatomical Principles. <i>Advances in Photosynthesis and Respiration</i> , 2018, , 451-471.	1.0	8
1827	Improving photosynthesis, plant productivity and abiotic stress tolerance – current trends and future perspectives. <i>Journal of Plant Physiology</i> , 2018, 231, 415-433.	1.6	110
1828	Difference and Potential of the Upward and Downward Sun-Induced Chlorophyll Fluorescence on Detecting Leaf Nitrogen Concentration in Wheat. <i>Remote Sensing</i> , 2018, 10, 1315.	1.8	12

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1830	Effects of Arbuscular Mycorrhizal Fungi on the Vegetative Vigor of <i>Ailanthus altissima</i> (Mill.) Swingle Seedlings under Sustained Pot Limitation. <i>Forests</i> , 2018, 9, 409.	0.9	3
1831	Pre-Drought Priming. <i>Advances in Agronomy</i> , 2018, 152, 51-85.	2.4	9
1832	Leaf shedding increases the photosynthetic rate of the canopy in N <sub>2</sub> -fixing and non-N <sub>2</sub> -fixing woody species. <i>Tree Physiology</i> , 2018, 38, 1903-1911.	1.4	5
1833	The multi-assumption architecture and testbed (MAAT v1.0): R code for generating ensembles with dynamic model structure and analysis of epistemic uncertainty from multiple sources. <i>Geoscientific Model Development</i> , 2018, 11, 3159-3185.	1.3	13
1834	Nitrogen deposition does not alleviate the adverse effects of shade on <i>Camellia japonica</i> (Naidong) seedlings. <i>PLoS ONE</i> , 2018, 13, e0201896.	1.1	5
1835	Morphological and functional traits of herbaceous plants with different functional types in the European Northeast. <i>Plant Ecology</i> , 2018, 219, 1295-1305.	0.7	16
1836	Plant RuBisCo: An Underutilized Protein for Food Applications. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2018, 95, 1063-1074.	0.8	54
1837	Stress-induced secondary leaves of a boreal deciduous shrub ( <i>Vaccinium myrtillus</i> ) overwinter then regain activity the following growing season. <i>Nordic Journal of Botany</i> , 2018, 36, e01894.	0.2	4
1838	Remote sensing of canopy nitrogen at regional scale in Mediterranean forests using the spaceborne MERIS Terrestrial Chlorophyll Index. <i>Biogeosciences</i> , 2018, 15, 2723-2742.	1.3	11
1839	Leaf Amino Acid Supply Affects Photosynthetic and Plant Nitrogen Use Efficiency under Nitrogen Stress. <i>Plant Physiology</i> , 2018, 178, 174-188.	2.3	104
1840	Estimation of area- and mass-based leaf nitrogen contents of wheat and rice crops from water-removed spectra using continuous wavelet analysis. <i>Plant Methods</i> , 2018, 14, 76.	1.9	55
1842	Photosynthetic Capacity, Stomatal Behavior and Chloroplast Ultrastructure in Leaves of the Endangered Plant <i>Carpinus putoensis</i> W.C.Cheng during Gaseous NO <sub>2</sub> Exposure and after Recovery. <i>Forests</i> , 2018, 9, 561.	0.9	10
1843	Biotic responses buffer warming-induced soil organic carbon loss in Arctic tundra. <i>Global Change Biology</i> , 2018, 24, 4946-4959.	4.2	21
1844	Phosphorus acquisition and utilisation in crop legumes under global change. <i>Current Opinion in Plant Biology</i> , 2018, 45, 248-254.	3.5	58
1845	Impacts of White Pine Needle Damage on seasonal litterfall dynamics and wood growth of eastern white pine ( <i>Pinus strobus</i> ) in northern New England. <i>Forest Ecology and Management</i> , 2018, 423, 27-36.	1.4	12
1846	Photosynthetic reaction, mineral uptake, and fruit quality of strawberry affected by different levels of macronutrients. <i>Journal of Plant Nutrition</i> , 2018, 41, 1807-1820.	0.9	7
1847	Dynamic remobilization of leaf nitrogen components in relation to photosynthetic rate during grain filling in maize. <i>Plant Physiology and Biochemistry</i> , 2018, 129, 27-34.	2.8	27

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1848	Variation in rhizosphere nutrient cycling affects the source of nitrogen acquisition in wild and cultivated <i>Aspalathus linearis</i> (N.L.Burm.) R.Dahlgren plants. <i>Applied Soil Ecology</i> , 2018, 130, 26-33.	2.1	5
1849	Fertilization modifies the essential oil and physiology of basil varieties. <i>Industrial Crops and Products</i> , 2018, 121, 282-293.	2.5	42
1850	Photosynthetic responses to CO <sub>2</sub> at different leaf temperatures in leaves of apple trees ( <i>Malus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 66 <i>Experimental Botany</i> , 2018, 155, 56-65.	2.0	10
1851	Seasonal controls on ecosystem-scale CO <sub>2</sub> and energy exchange in a Sonoran Desert characterized by the saguaro cactus ( <i>Carnegiea gigantea</i> ). <i>Oecologia</i> , 2018, 187, 977-994.	0.9	6
1852	ORCHIDEE-PEAT (revision 4596), a model for northern peatland CO <sub>2</sub> and water, and energy fluxes on daily to annual scales. <i>Geoscientific Model Development</i> , 2018, 11, 497-519.	1.3	43
1853	How to live in contrasting habitats? Acquisitive and conservative strategies emerge at inter- and intraspecific levels in savanna and forest woody plants. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2018, 34, 17-25.	1.1	59
1854	Novel Insights into the Influence of Seed Sarcotesta Photosynthesis on Accumulation of Seed Dry Matter and Oil Content in <i>Torreya grandis</i> cv. 'Merrillii'. <i>Frontiers in Plant Science</i> , 2017, 8, 2179.	1.7	15
1855	Biomass Accumulation, Photosynthetic Traits and Root Development of Cotton as Affected by Irrigation and Nitrogen-Fertilization. <i>Frontiers in Plant Science</i> , 2018, 9, 173.	1.7	58
1856	Effects of Nitrogen Addition on the Drought Susceptibility of the <i>Leymus chinensis</i> Meadow Ecosystem Vary with Drought Duration. <i>Frontiers in Plant Science</i> , 2018, 9, 254.	1.7	32
1857	Responses of Woody Plant Functional Traits to Nitrogen Addition: A Meta-Analysis of Leaf Economics, Gas Exchange, and Hydraulic Traits. <i>Frontiers in Plant Science</i> , 2018, 9, 683.	1.7	71
1858	Photorespiration differs among <i>Arabidopsis thaliana</i> ecotypes and is correlated with photosynthesis. <i>Journal of Experimental Botany</i> , 2018, 69, 5191-5204.	2.4	16
1859	Photosynthesis of subtropical forest species from different successional status in relation to foliar nutrients and phosphorus fractions. <i>Scientific Reports</i> , 2018, 8, 10455.	1.6	22
1860	Rhizobium inoculation enhances copper tolerance by affecting copper uptake and regulating the ascorbate-glutathione cycle and phytochelatin biosynthesis-related gene expression in <i>Medicago sativa</i> seedlings. <i>Ecotoxicology and Environmental Safety</i> , 2018, 162, 312-323.	2.9	46
1861	Temperate and Tropical Forest Canopies are Already Functioning beyond Their Thermal Thresholds for Photosynthesis. <i>Forests</i> , 2018, 9, 47.	0.9	71
1862	Photosynthetic light responses of apple ( <i>Malus domestica</i> ) leaves in relation to leaf temperature, CO <sub>2</sub> and leaf nitrogen on trees grown in orchard conditions. <i>Functional Plant Biology</i> , 2018, 45, 1149.	1.1	11
1863	Aquaporin Expression and Water Transport Pathways inside Leaves Are Affected by Nitrogen Supply through Transpiration in Rice Plants. <i>International Journal of Molecular Sciences</i> , 2018, 19, 256.	1.8	17
1864	Chloroplast Protein Turnover: The Influence of Extraplasmidic Processes, Including Autophagy. <i>International Journal of Molecular Sciences</i> , 2018, 19, 828.	1.8	51
1865	Proximal Optical Sensors for Nitrogen Management of Vegetable Crops: A Review. <i>Sensors</i> , 2018, 18, 2083.	2.1	136

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1866	Glucose-6-phosphate dehydrogenase plays a vital role in <i>Achnatherum inebrians</i> plants host to <i>Epichloa gansuensis</i> by improving growth under nitrogen deficiency. <i>Plant and Soil</i> , 2018, 430, 37-48.	1.8	27
1867	Retrieval of the canopy chlorophyll content from Sentinel-2 spectral bands to estimate nitrogen uptake in intensive winter wheat cropping systems. <i>Remote Sensing of Environment</i> , 2018, 216, 245-261.	4.6	117
1868	Landscape variation in canopy nitrogen and carbon assimilation in a temperate mixed forest. <i>Oecologia</i> , 2018, 188, 595-606.	0.9	7
1869	Enhanced drought tolerance in seedlings of Neotropical tree species inoculated with plant growth-promoting bacteria. <i>Plant Physiology and Biochemistry</i> , 2018, 130, 277-288.	2.8	27
1870	Phosphorus deficiency alters scaling relationships between leaf gas exchange and associated traits in a wide range of contrasting <i>Eucalyptus</i> species. <i>Functional Plant Biology</i> , 2018, 45, 813.	1.1	10
1871	Contrasting Photosynthetic Responses of Two Dominant Macrophyte Species to Seasonal Inundation in an Everglades Freshwater Prairie. <i>Wetlands</i> , 2018, 38, 893-903.	0.7	5
1872	Disentangling the effect of atmospheric CO <sub>2</sub> enrichment on the halophyte <i>Salicornia ramosissima</i> J. Woods physiological performance under optimal and suboptimal saline conditions. <i>Plant Physiology and Biochemistry</i> , 2018, 127, 617-629.	2.8	27
1873	Seasonal Quality Assessment of Leaves and Stems of Fodder Ligneous Species. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2018, 46, 426-434.	0.5	10
1874	Water relations and growth response to drought stress of <i>Prosopis tamarugo</i> Phil. A review. <i>Journal of Soil Science and Plant Nutrition</i> , 2018, , 0-0.	1.7	8
1875	Increased gibberellin levels enhance light capture efficiency in tobacco plants and promote dry matter accumulation. <i>Theoretical and Experimental Plant Physiology</i> , 2018, 30, 235-250.	1.1	13
1876	Regional-scale patterns of $\delta^{13}C$ and $\delta^{15}N$ associated with multiple ecosystem functions along an aridity gradient in grassland ecosystems. <i>Plant and Soil</i> , 2018, 432, 107-118.	1.8	15
1877	Expression level of Rubisco activase negatively correlates with Rubisco content in transgenic rice. <i>Photosynthesis Research</i> , 2018, 137, 465-474.	1.6	31
1878	Influence of low light intensity on growth and biomass allocation, leaf photosynthesis and canopy radiation interception and use in two forage species of <i>Centrosema</i> ( <i>DC.</i> ) Benth.. <i>Grass and Forage Science</i> , 2018, 73, 967-978.	1.2	32
1879	Fagaceae tree species allocate higher fraction of nitrogen to photosynthetic apparatus than Leguminosae in Jianfengling tropical montane rain forest, China. <i>PLoS ONE</i> , 2018, 13, e0192040.	1.1	7
1880	The sweet side of global change—dynamic responses of non-structural carbohydrates to drought, elevated CO <sub>2</sub> and nitrogen fertilization in tree species. <i>Tree Physiology</i> , 2018, 38, 1706-1723.	1.4	51
1881	Exploring the optimum nitrogen partitioning to predict the acclimation of C <sub>3</sub> leaf photosynthesis to varying growth conditions. <i>Journal of Experimental Botany</i> , 2019, 70, 2435-2447.	2.4	35
1882	Leaf anatomy does not explain apparent short-term responses of mesophyll conductance to light and CO <sub>2</sub> in tobacco. <i>Physiologia Plantarum</i> , 2019, 165, 604-618.	2.6	44
1883	Leaf Optical Properties in Different Wavelength Domains. , 2019, , 124-169.		4



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1884	Variation Due to Leaf Structural, Chemical, and Physiological Traits. , 2019, , 170-194.		3
1885	Extraction of Leaf Traits. , 2019, , 320-356.		0
1886	The effect of biochar amendment on the growth, morphology and physiology of <i>Quercus castaneifolia</i> seedlings under water-deficit stress. <i>European Journal of Forest Research</i> , 2019, 138, 967-979.	1.1	29
1887	A Brief History of Leaf Color. , 2019, , 1-11.		0
1888	Leaf Biophysics. , 2019, , 12-47.		0
1889	Spectroscopy of Leaf Molecules. , 2019, , 48-73.		2
1890	Measurement of Leaf Optical Properties. , 2019, , 74-123.		1
1891	Variations Due to Leaf Abiotic and Biotic Factors. , 2019, , 195-228.		1
1892	Comprehensive Reviews of Leaf Optical Properties Models. , 2019, , 229-264.		1
1893	Modeling Leaf Optical Properties:prospect. , 2019, , 265-291.		1
1894	Modeling Three-Dimensional Leaf Optical Properties:raytran. , 2019, , 292-319.		0
1895	Applications of Leaf Optics. , 2019, , 357-403.		0
1910	Short-term carbon and nitrogen dynamics in soil, litterfall and canopy of a suburban native forest subjected to prescribed burning in subtropical Australia. <i>Journal of Soils and Sediments</i> , 2019, 19, 3969-3981.	1.5	10
1911	Functional response of subordinate species to intraspecific trait variability within dominant species. <i>Journal of Ecology</i> , 2019, 107, 2040-2053.	1.9	14
1912	Interactive effects of nitrogen and potassium on photosynthesis and photosynthetic nitrogen allocation of rice leaves. <i>BMC Plant Biology</i> , 2019, 19, 302.	1.6	51
1913	Photosynthetic Efficiency is Higher in Asymmetric Leaves than in Symmetric Leaves of the Same Plant. <i>Symmetry</i> , 2019, 11, 834.	1.1	2
1914	Impacts of soil nitrogen and phosphorus levels on cytotype performance of the circumboreal herb <i>Chamerion angustifolium</i> : implications for polyploid establishment. <i>American Journal of Botany</i> , 2019, 106, 906-921.	0.8	22
1915	Dissection of mechanisms for high yield in two elite rice cultivars. <i>Field Crops Research</i> , 2019, 241, 107563.	2.3	10

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1916	Changes in leaf functional traits of rainforest canopy trees associated with an El Niño event in Borneo. <i>Environmental Research Letters</i> , 2019, 14, 085005.	2.2	18
1917	Variations in leaf traits of <i>Juniperus przewalskii</i> from an extremely arid and cold environment. <i>Science of the Total Environment</i> , 2019, 689, 434-443.	3.9	16
1918	Relationship between irradiance and levels of Calvin-Benson cycle and other intermediates in the model eudicot <i>Arabidopsis</i> and the model monocot rice. <i>Journal of Experimental Botany</i> , 2019, 70, 5809-5825.	2.4	23
1919	Monitoring of Nitrogen and Grain Protein Content in Winter Wheat Based on Sentinel-2A Data. <i>Remote Sensing</i> , 2019, 11, 1724.	1.8	33
1920	Nitrogen effect on gas exchange characteristics, dry matter production and nitrate accumulation of <i>Amaranthus cruentus</i> L.. <i>Revista Brasileira De Botanica</i> , 2019, 42, 373-381.	0.5	10
1921	A meta-analysis of crop response patterns to nitrogen limitation for improved model representation. <i>PLoS ONE</i> , 2019, 14, e0223508.	1.1	5
1922	Ecologically distinct pine species show differential root development after outplanting in response to nursery nutrient cultivation. <i>Forest Ecology and Management</i> , 2019, 451, 117562.	1.4	10
1923	The effects of biochar and dredged sediments on soil structure and fertility promote the growth, photosynthetic and rhizosphere microbial diversity of <i>Phragmites communis</i> (Cav.) Trin. ex Steud. <i>Science of the Total Environment</i> , 2019, 697, 134073.	3.9	29
1924	Tree or not a tree: Differences in plant functional traits among geoxyles and closely related tree species. <i>South African Journal of Botany</i> , 2019, 127, 176-184.	1.2	9
1925	Nitrogen and chlorophyll status determination in durum wheat as influenced by fertilization and soil management: Preliminary results. <i>PLoS ONE</i> , 2019, 14, e0225126.	1.1	29
1926	Blue Urea: Fertilizer With Reduced Environmental Impact. <i>Frontiers in Energy Research</i> , 2019, 7, .	1.2	29
1927	Water source partitioning and nitrogen facilitation promote coexistence of nitrogen-fixing and neighbor species in mixed plantations in the semiarid Loess Plateau. <i>Plant and Soil</i> , 2019, 445, 289-305.	1.8	14
1928	Nitrogen addition alters photosynthetic carbon fixation, allocation of photoassimilates, and carbon partitioning of <i>Leymus chinensis</i> in a temperate grassland of Inner Mongolia. <i>Agricultural and Forest Meteorology</i> , 2019, 279, 107743.	1.9	31
1929	Ecophysiological differentiation between two invasive species of <i>Carpobrotus</i> competing under different nutrient conditions. <i>American Journal of Botany</i> , 2019, 106, 1454-1465.	0.8	8
1930	The Value of Sentinel-2 Spectral Bands for the Assessment of Winter Wheat Growth and Development. <i>Remote Sensing</i> , 2019, 11, 2050.	1.8	29
1931	Rapid evolution of leaf physiology in an introduced beach daisy. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20191103.	1.2	8
1932	Road Dust Fails to Impact Soybean Physiology and Production. <i>Agronomy Journal</i> , 2019, 111, 1760-1769.	0.9	2
1933	Estimating global gross primary productivity using chlorophyll fluorescence and a data assimilation system with the BETHY-SCOPE model. <i>Biogeosciences</i> , 2019, 16, 3069-3093.	1.3	57

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1934	<i>Efc-d</i> locus shortens rice maturity duration without yield penalty. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18717-18722.	3.3	77
1935	Sheepgrass ( <i>Leymus chinensis</i> ): An Environmentally Friendly Native Grass for Animals. , 2019, , .		3
1936	Seasonality of leaf area index and photosynthetic capacity for better estimation of carbon and water fluxes in evergreen conifer forests. Agricultural and Forest Meteorology, 2019, 279, 107708.	1.9	20
1937	Influence of <i>Melia dubia</i> Cav. Spatial Geometries on Growth, Herbage Yield and Essential Oil Constituents of <i>Cymbopogon martinii</i> (Roxb.) Wats.. Journal of Essential Oil-bearing Plants: JEOP, 2019, 22, 630-648.	0.7	2
1938	Drought sensitivity of aboveground productivity in <i>Leymus chinensis</i> meadow steppe depends on drought timing. Oecologia, 2019, 191, 685-696.	0.9	29
1939	Light Energy Partitioning under Various Environmental Stresses Combined with Elevated CO <sub>2</sub> in Three Deciduous Broadleaf Tree Species in Japan. Climate, 2019, 7, 79.	1.2	9
1940	Autophagy-mediated Nutrient Recycling and Regulation in Plants: A Molecular View. Journal of Plant Biology, 2019, 62, 307-319.	0.9	18
1941	Do nitrogen- and sulphur-remobilization-related parameters measured at the onset of the reproductive stage provide early indicators to adjust N and S fertilization in oilseed rape ( <i>Brassica</i> ) Tj ETQq1 1 0.784314 rgBTj/Overload		
1942	Leaf photosynthetic capacity is regulated by the interaction of nitrogen and potassium through coordination of CO <sub>2</sub> diffusion and carboxylation. Physiologia Plantarum, 2019, 167, 418-432.	2.6	24
1943	The response of mesophyll conductance to short- and long-term environmental conditions in chickpea genotypes. AoB PLANTS, 2019, 11, ply073.	1.2	14
1944	A threefold difference in plant growth response to nitrogen addition between the laboratory and field experiments. Ecosphere, 2019, 10, e02572.	1.0	15
1945	Effects of competition and phosphorus fertilization on leaf and root traits of late-successional conifers <i>Abies fabri</i> and <i>Picea brachytyla</i> . Environmental and Experimental Botany, 2019, 162, 14-24.	2.0	17
1946	Chlorophyll content estimation in an open-canopy conifer forest with Sentinel-2A and hyperspectral imagery in the context of forest decline. Remote Sensing of Environment, 2019, 223, 320-335.	4.6	112
1947	Functional shifts in leaves of woody invaders of deciduous forests between their home and away ranges. Tree Physiology, 2019, 39, 1551-1560.	1.4	3
1948	Potential improvement of photosynthetic CO <sub>2</sub> assimilation in crops by exploiting the natural variation in the temperature response of Rubisco catalytic traits. Current Opinion in Plant Biology, 2019, 49, 60-67.	3.5	32
1949	Towards a global arctic-alpine model for Near-infrared reflectance spectroscopy (NIRS) predictions of foliar nitrogen, phosphorus and carbon content. Scientific Reports, 2019, 9, 8259.	1.6	21
1950	Nitrogen and Phosphorus Retranslocation of Leaves and Stemwood in a Mature Eucalyptus Forest Exposed to 5 Years of Elevated CO <sub>2</sub> . Frontiers in Plant Science, 2019, 10, 664.	1.7	40
1951	Assessment of unified models for estimating leaf chlorophyll content across directional-hemispherical reflectance and bidirectional reflectance spectra. Remote Sensing of Environment, 2019, 231, 111240.	4.6	40

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1952	Comparison of the effects of canopy and understory nitrogen addition on xylem growth of two dominant species in a warm temperate forest, China. <i>Dendrochronologia</i> , 2019, 56, 125604.	1.0	13
1953	Fluorescence parameters among leaf photosynthesis-related traits are the best proxies for CO <sub>2</sub> assimilation in Central Amazon trees. <i>Revista Brasileira De Botanica</i> , 2019, 42, 239-247.	0.5	8
1954	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, .	1.0	9
1955	Chlorophyll estimation using multi-spectral unmanned aerial system based on machine learning techniques. <i>Remote Sensing Applications: Society and Environment</i> , 2019, 15, 100235.	0.8	26
1956	High-throughput field phenotyping using hyperspectral reflectance and partial least squares regression (PLSR) reveals genetic modifications to photosynthetic capacity. <i>Remote Sensing of Environment</i> , 2019, 231, 111176.	4.6	123
1957	Effects of light conditions on growth and defense compound contents of <i>Datura inoxia</i> and <i>D. stramonium</i> . <i>Journal of Plant Research</i> , 2019, 132, 473-480.	1.2	6
1958	Photosynthetic traits as indicators for phenotyping urban and peri-urban forests: A case study in the metropolitan city of Rome. <i>Ecological Indicators</i> , 2019, 103, 301-311.	2.6	13
1959	Sex-specific structural and functional leaf traits and sunâ€shade acclimation in the dioecious tree <i>Pistacia vera</i> (Anacardiaceae). <i>Functional Plant Biology</i> , 2019, 46, 649.	1.1	10
1960	Improved estimates of global terrestrial photosynthesis using information on leaf chlorophyll content. <i>Global Change Biology</i> , 2019, 25, 2499-2514.	4.2	95
1961	Leaf age effects on the spectral predictability of leaf traits in Amazonian canopy trees. <i>Science of the Total Environment</i> , 2019, 666, 1301-1315.	3.9	22
1962	Predicting dark respiration rates of wheat leaves from hyperspectral reflectance. <i>Plant, Cell and Environment</i> , 2019, 42, 2133-2150.	2.8	54
1963	Seedling leaves allocate lower fractions of nitrogen to photosynthetic apparatus in nitrogen fixing trees than in non-nitrogen fixing trees in subtropical China. <i>PLoS ONE</i> , 2019, 14, e0208971.	1.1	8
1964	Trait convergence in photosynthetic nutrientâ€use efficiency along a 2â€million year dune chronosequence in a global biodiversity hotspot. <i>Journal of Ecology</i> , 2019, 107, 2006-2023.	1.9	36
1965	Straw mulching enhanced the photosynthetic capacity of field maize by increasing the leaf N use efficiency. <i>Agricultural Water Management</i> , 2019, 218, 60-67.	2.4	25
1966	Environmental variations mediate duckweed ( <i>Lemna minor</i> L.) sensitivity to copper exposure through phenotypic plasticity. <i>Environmental Science and Pollution Research</i> , 2019, 26, 14106-14115.	2.7	7
1967	Hydraulic Traits Emerge as Relevant Determinants of Growth Patterns in Wild Olive Genotypes Under Water Stress. <i>Frontiers in Plant Science</i> , 2019, 10, 291.	1.7	13
1968	To Stop Nitrogen Overdose in Soilless Tomato Crop; A Way to Promote Fruit Quality without Affecting; Fruit Yield. <i>Agronomy</i> , 2019, 9, 80.	1.3	26
1969	Crop Radiation Capture and Use Efficiency. , 2019, , 73-106.		1

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1970	Productivity and thallus toughness trade-off relationship in marine macroalgae from the Japan Sea. <i>Phycological Research</i> , 2019, 67, 253-260.	0.8	2
1971	High nitrogen contribution by <i>Gunnera magellanica</i> and nitrogen transfer by mycorrhizas drive an extraordinarily fast primary succession in sub-Antarctic Chile. <i>New Phytologist</i> , 2019, 223, 661-674.	3.5	13
1972	Hypernodulating soybean mutant line nod4 lacking Autoregulation of Nodulation™ (AON) has limited root-to-shoot water transport capacity. <i>Annals of Botany</i> , 2019, 124, 979-991.	1.4	6
1973	Seasonal patterns of gas exchange and water relations in juveniles of two Neotropical savanna tree species differing in leaf phenology. <i>Acta Oecologica</i> , 2019, 95, 57-67.	0.5	4
1974	Effects of an <i>Ascophyllum nodosum</i> (L.) Le Jol. extract on grapevine yield and berry composition of a Merlot vineyard. <i>Scientia Horticulturae</i> , 2019, 250, 27-32.	1.7	33
1975	Utilization of actinobacteria to enhance the production and quality of date palm ( <i>Phoenix dactylifera</i> ) Tj ETQq1 1 0,784314 rgBT /Over	3.9	87
1976	Elevational patterns of carbon, nitrogen and phosphorus in understory bryophytes on the eastern slope of Gongga Mountain, China. <i>Journal of Plant Ecology</i> , 2019, 12, 781-786.	1.2	6
1977	Exploring the potential of leaf reflectance spectra for retrieving the leaf maximum carboxylation rate. <i>International Journal of Remote Sensing</i> , 2019, 40, 5411-5428.	1.3	14
1978	Metabolite profiles reveal interspecific variation in operation of the Calvin-Benson cycle in both C4 and C3 plants. <i>Journal of Experimental Botany</i> , 2019, 70, 1843-1858.	2.4	47
1979	Lower photorespiration in elevated CO <sub>2</sub> reduces leaf N concentrations in mature <i>Eucalyptus</i> trees in the field. <i>Global Change Biology</i> , 2019, 25, 1282-1295.	4.2	51
1980	Biosolids application improves mineral composition and phenolic profile of basil cultivated on eroded soil. <i>Scientia Horticulturae</i> , 2019, 249, 407-418.	1.7	19
1982	<i>Terrestrial Biosphere Models.</i> , 2019, , 1-24.		4
1983	<i>Quantitative Description of Ecosystems.</i> , 2019, , 25-39.		0
1984	<i>Fundamentals of Energy and Mass Transfer.</i> , 2019, , 40-52.		0
1985	<i>Mathematical Formulation of Biological Flux Rates.</i> , 2019, , 53-63.		0
1986	<i>Soil Temperature.</i> , 2019, , 64-79.		1
1987	<i>Turbulent Fluxes and Scalar Profiles in the Surface Layer.</i> , 2019, , 80-100.		2
1988	<i>Surface Energy Fluxes.</i> , 2019, , 101-114.		1

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1989	Soil Moisture. , 2019, , 115-133.		0
1990	Hydrologic Scaling and Spatial Heterogeneity. , 2019, , 134-151.		0
1991	Leaf Temperature and Energy Fluxes. , 2019, , 152-166.		0
1992	Leaf Photosynthesis. , 2019, , 167-188.		2
1993	Stomatal Conductance. , 2019, , 189-212.		1
1994	Plant Hydraulics. , 2019, , 213-227.		2
1995	Radiative Transfer. , 2019, , 228-259.		1
1996	Plant Canopies. , 2019, , 260-279.		0
1997	Scalar Canopy Profiles. , 2019, , 280-300.		0
1998	Biogeochemical Models. , 2019, , 301-321.		0
1999	Soil Biogeochemistry. , 2019, , 322-343.		0
2000	Vegetation Demography. , 2019, , 344-364.		1
2001	Canopy Chemistry. , 2019, , 365-380.		0
2005	Using Digital Cameras on an Unmanned Aerial Vehicle to Derive Optimum Color Vegetation Indices for Leaf Nitrogen Concentration Monitoring in Winter Wheat. Remote Sensing, 2019, 11, 2667.	1.8	27
2006	Retrieval of Leaf Nitrogen Concentration in Winter Wheat Using Red Edge Band and Artificial Neural Network. , 2019, , .		1
2007	Growth performance and emergence of invasive alien Rumex confertus in different soil types. Scientific Reports, 2019, 9, 19678.	1.6	7
2008	The Development of Hyperspectral Distribution Maps to Predict the Content and Distribution of Nitrogen and Water in Wheat (Triticum aestivum). Frontiers in Plant Science, 2019, 10, 1380.	1.7	56
2009	Mechanisms of Nitrogen Use in Maize. Agronomy, 2019, 9, 775.	1.3	35

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2010	Elevation Gradient Altered Soil C, N, and P Stoichiometry of <i>Pinus taiwanensis</i> Forest on Daiyun Mountain. <i>Forests</i> , 2019, 10, 1089.	0.9	26
2011	Nitrogen and Phosphorus effect on Sun-Induced Fluorescence and Gross Primary Productivity in Mediterranean Grassland. <i>Remote Sensing</i> , 2019, 11, 2562.	1.8	19
2012	Physiological and molecular basis of alternate bearing in perennial fruit crops. <i>Scientia Horticulturae</i> , 2019, 243, 214-225.	1.7	37
2013	Optimised nitrogen allocation favours improvement in canopy photosynthetic nitrogen-use efficiency: Evidence from late-sown winter wheat. <i>Environmental and Experimental Botany</i> , 2019, 159, 75-86.	2.0	46
2014	Environmental influences on stem borer incidence in Australian subtropical <i>Corymbia</i> plantations. <i>Journal of Pest Science</i> , 2019, 92, 579-593.	1.9	1
2015	Sustained growth suppression in forest-floor seedlings of Sakhalin fir associated with previous-year springtime photoinhibition after a winter cutting of canopy trees. <i>European Journal of Forest Research</i> , 2019, 138, 143-150.	1.1	7
2016	Seasonal responses of photosynthetic parameters in maize and sunflower and their relationship with leaf functional traits. <i>Plant, Cell and Environment</i> , 2019, 42, 1561-1574.	2.8	21
2017	Soil Class, Mechanical Impedance and Irrigation: Impact on Physiological Performance in Green Dwarf Coconut. <i>Agricultural Research</i> , 2019, 8, 92-101.	0.9	0
2018	Leaf temperatures mediate alpine plant communities' response to a simulated extended summer. <i>Ecology and Evolution</i> , 2019, 9, 1227-1243.	0.8	3
2019	Atmospheric drought and low light impede mycorrhizal effects on leaf photosynthesis—a glasshouse study on tomato under naturally fluctuating environmental conditions. <i>Mycorrhiza</i> , 2019, 29, 13-28.	1.3	14
2020	Nitrogen supplementation improves the high-light acclimation of <i>Guazuma ulmifolia</i> Lam. seedlings. <i>Trees - Structure and Function</i> , 2019, 33, 421-431.	0.9	13
2021	Trade-off of within-leaf nitrogen allocation between photosynthetic nitrogen-use efficiency and water deficit stress acclimation in rice ( <i>Oryza sativa</i> L.). <i>Plant Physiology and Biochemistry</i> , 2019, 135, 41-50.	2.8	39
2022	Foliar phosphorus fractions reveal how tropical plants maintain photosynthetic rates despite low soil phosphorus availability. <i>Functional Ecology</i> , 2019, 33, 503-513.	1.7	80
2023	Adjustments and coordination of hydraulic, leaf and stem traits along a water availability gradient. <i>New Phytologist</i> , 2019, 223, 632-646.	3.5	184
2024	Global photosynthetic capacity is optimized to the environment. <i>Ecology Letters</i> , 2019, 22, 506-517.	3.0	153
2025	Nitrogen fertilization effects on the leaf chemical concentrations in Russet Burbank potato. <i>Field Crops Research</i> , 2019, 232, 40-48.	2.3	11
2026	Dose-dependence of growth and ecophysiological responses of plants to biochar. <i>Science of the Total Environment</i> , 2019, 658, 1344-1354.	3.9	49
2027	Nitrogen-improved photosynthesis quantum yield is driven by increased thylakoid density, enhancing green light absorption. <i>Plant Science</i> , 2019, 278, 1-11.	1.7	42

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2028	Costs and benefits of photosynthetic stems in desert species from southern California. <i>Functional Plant Biology</i> , 2019, 46, 175.	1.1	16
2029	Exploring the use of vegetation indices to sense canopy nitrogen to phosphorous ratio in grasses. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 75, 1-14.	1.4	15
2030	Growth performance and leaf ecophysiological traits in three <i>Aquilaria</i> species in Malaysia. <i>New Forests</i> , 2019, 50, 699-715.	0.7	8
2031	Autophagy and Senescence. , 2019, , 239-253.		1
2032	Mapping foliar functional traits and their uncertainties across three years in a grassland experiment. <i>Remote Sensing of Environment</i> , 2019, 221, 405-416.	4.6	89
2033	Nitrogen deficiency induced a decrease in grain yield related to photosynthetic characteristics, carbon-nitrogen balance and nitrogen use efficiency in proso millet ( <i>Panicum miliaceum</i> L.). <i>Archives of Agronomy and Soil Science</i> , 2020, 66, 398-413.	1.3	18
2034	Phosphorus-fertilisation has differential effects on leaf growth and photosynthetic capacity of <i>Arachis hypogaea</i> L. <i>Plant and Soil</i> , 2020, 447, 99-116.	1.8	41
2035	Estimation and mapping of nitrogen content in apple trees at leaf and canopy levels using hyperspectral imaging. <i>Precision Agriculture</i> , 2020, 21, 198-225.	3.1	52
2036	Genetic variation for photosynthetic capacity and efficiency in spring wheat. <i>Journal of Experimental Botany</i> , 2020, 71, 2299-2311.	2.4	48
2037	Leaf photosynthesis is mediated by the coordination of nitrogen and potassium: The importance of anatomical-determined mesophyll conductance to CO <sub>2</sub> and carboxylation capacity. <i>Plant Science</i> , 2020, 290, 110267.	1.7	31
2038	High aluminum concentration and initial establishment of <i>Handroanthus impetiginosus</i> : clues about an Al non-resistant species in Brazilian Cerrado. <i>Journal of Forestry Research</i> , 2020, 31, 2075-2082.	1.7	7
2039	High potential of variable rate fertilization combined with a controlled released nitrogen form at affecting cv. Barbera vines behavior. <i>European Journal of Agronomy</i> , 2020, 112, 125949.	1.9	22
2040	Magnesium supports nitrogen uptake through regulating NRT2.1/2.2 in soybean. <i>Plant and Soil</i> , 2020, 457, 97-111.	1.8	34
2041	Altered leaf elemental composition with climate change is linked to reductions in photosynthesis, growth and survival in a semi-arid shrubland. <i>Journal of Ecology</i> , 2020, 108, 47-60.	1.9	40
2042	Impact of polystyrene nanoplastics (PSNPs) on seed germination and seedling growth of wheat ( <i>Triticum aestivum</i> L.). <i>Journal of Hazardous Materials</i> , 2020, 385, 121620.	6.5	358
2043	Effects of two centuries of global environmental variation on phenology and physiology of <i>Arabidopsis thaliana</i> . <i>Global Change Biology</i> , 2020, 26, 523-538.	4.2	29
2044	Sensitivity analysis and estimation using a hierarchical Bayesian method for the parameters of the FvCB biochemical photosynthetic model. <i>Photosynthesis Research</i> , 2020, 143, 45-66.	1.6	6
2045	Estimation of leaf photosynthetic capacity from the photochemical reflectance index and leaf pigments. <i>Ecological Indicators</i> , 2020, 110, 105867.	2.6	28



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2046	Leaf drought tolerance cannot be inferred from classic leaf traits in a tropical rainforest. <i>Journal of Ecology</i> , 2020, 108, 1030-1045.	1.9	29
2047	The fertilization effect of global dimming on crop yields is not attributed to an improved light interception. <i>Global Change Biology</i> , 2020, 26, 1697-1713.	4.2	37
2048	A nitrogen spectral response model and nitrogen estimation of summer maize during the entire growth period. <i>International Journal of Remote Sensing</i> , 2020, 41, 1867-1883.	1.3	2
2049	Nationwide crop yield estimation based on photosynthesis and meteorological stress indices. <i>Agricultural and Forest Meteorology</i> , 2020, 284, 107872.	1.9	22
2050	Long-term impact of nitrogen fertilization on carbon and water fluxes in a Douglas-fir stand in the Pacific Northwest. <i>Forest Ecology and Management</i> , 2020, 455, 117645.	1.4	9
2051	Two novel quantitative trait loci affecting the variation in leaf photosynthetic capacity among soybeans. <i>Plant Science</i> , 2020, 291, 110300.	1.7	10
2052	Whole-plant optimality predicts changes in leaf nitrogen under variable $\text{CO}_2$ and nutrient availability. <i>New Phytologist</i> , 2020, 225, 2331-2346.	3.5	27
2053	Power-law estimation of branch growth. <i>Ecological Modelling</i> , 2020, 416, 108900.	1.2	13
2054	Biocrusts are associated with increased plant biomass and nutrition at seedling stage independently of root-associated fungal colonization. <i>Plant and Soil</i> , 2020, 446, 331-342.	1.8	9
2055	Galling impacts of the gall wasp <i>Leptocybe invasa</i> (Hymenoptera: Eulophidae) on <i>Eucalyptus</i> trees vary with plant genotype. <i>International Journal of Tropical Insect Science</i> , 2020, 40, 267-275.	0.4	1
2056	What does the RuBisCO activity tell us about a C3-CAM plant?. <i>Plant Physiology and Biochemistry</i> , 2020, 147, 172-180.	2.8	8
2057	Evolutionary trends in RuBisCO kinetics and their co-evolution with $\text{CO}_2$ concentrating mechanisms. <i>Plant Journal</i> , 2020, 101, 897-918.	2.8	100
2058	Effects of nitrogen enrichment on tree carbon allocation: A global synthesis. <i>Global Ecology and Biogeography</i> , 2020, 29, 573-589.	2.7	66
2059	Elevational adaptation of morphological and anatomical traits by Sakhalin fir ( <i>Abies sachalinensis</i> ). <i>Trees - Structure and Function</i> , 2020, 34, 507-520.	0.9	5
2060	Hyperspectral assessment of plant responses to multi-stress environments: Prospects for managing protected agrosystems. <i>Plants People Planet</i> , 2020, 2, 244-258.	1.6	29
2061	Light and VPD gradients drive foliar nitrogen partitioning and photosynthesis in the canopy of European beech and silver fir. <i>Oecologia</i> , 2020, 192, 323-339.	0.9	39
2062	Compositional and functional responses of soil microbial communities to long-term nitrogen and phosphorus addition in a calcareous grassland. <i>Pedobiologia</i> , 2020, 78, 150612.	0.5	28
2063	Light mediates the relationship between community diversity and trait plasticity in functionally and phylogenetically diverse tree mixtures. <i>Journal of Ecology</i> , 2020, 108, 1617-1634.	1.9	23

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2064	Validation of an Enzyme-Driven Model Explaining Photosynthetic Rate Responses to Limited Nitrogen in Crop Plants. <i>Frontiers in Plant Science</i> , 2020, 11, 533341.	1.7	10
2065	Potato Tuberworm <i>Phthorimaea operculella</i> (Zeller) (Lepidoptera: Gelechioidea) Leaf Infestation Affects Performance of Conspecific Larvae on Harvested Tubers by Inducing Chemical Defenses. <i>Insects</i> , 2020, 11, 633.	1.0	5
2066	Canopy openness affects microclimate and performance of underplanted trees in restoration of high-elevation tropical pasturelands. <i>Agricultural and Forest Meteorology</i> , 2020, 292-293, 108105.	1.9	12
2067	Using hyperspectral plant traits linked to photosynthetic efficiency to assess N and P partition. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 169, 406-420.	4.9	19
2068	MicroRNA156-mediated changes in leaf composition lead to altered photosynthetic traits during vegetative phase change. <i>New Phytologist</i> , 2021, 231, 1008-1022.	3.5	28
2069	Canopy light and nitrogen distribution are closely related to nitrogen allocation within leaves in <i>Brassica napus</i> L. <i>Field Crops Research</i> , 2020, 258, 107958.	2.3	6
2070	Transcriptomic Study for Identification of Major Nitrogen Stress Responsive Genes in Australian Bread Wheat Cultivars. <i>Frontiers in Genetics</i> , 2020, 11, 583785.	1.1	29
2071	A Modified Critical Nitrogen Dilution Curve for Winter Wheat to Diagnose Nitrogen Status Under Different Nitrogen and Irrigation Rates. <i>Frontiers in Plant Science</i> , 2020, 11, 549636.	1.7	13
2072	Leaf and Stem Traits are Linked to Liana Growth Rate in a Subtropical Cloud Forest. <i>Forests</i> , 2020, 11, 1120.	0.9	3
2073	Maize senescence under contrasting source-sink ratios during the grain filling period. <i>Environmental and Experimental Botany</i> , 2020, 180, 104263.	2.0	17
2074	Effect of high light on canopy-level photosynthesis and leaf mesophyll ion flux in tomato. <i>Planta</i> , 2020, 252, 80.	1.6	15
2075	Hybrid Rubisco with Complete Replacement of Rice Rubisco Small Subunits by Sorghum Counterparts Confers C4 Plant-like High Catalytic Activity. <i>Molecular Plant</i> , 2020, 13, 1570-1581.	3.9	50
2076	Interpretation and Evaluation of Electrical Lighting in Plant Factories with Ray-Tracing Simulation and 3D Plant Modeling. <i>Agronomy</i> , 2020, 10, 1545.	1.3	18
2077	Carbon assimilation through a vertical light gradient in the canopy of invasive herbs grown under different temperature regimes is determined by leaf and whole-plant architecture. <i>AoB PLANTS</i> , 2020, 12, plaa031.	1.2	4
2078	Small tropical forest trees have a greater capacity to adjust carbon metabolism to long-term drought than large canopy trees. <i>Plant, Cell and Environment</i> , 2020, 43, 2380-2393.	2.8	22
2079	Effects of overexpression of the Rubisco small subunit gene under the control of the Rubisco activase promoter on Rubisco contents of rice leaves at different positions. <i>Soil Science and Plant Nutrition</i> , 2020, 66, 569-578.	0.8	2
2080	Improved estimation of leaf chlorophyll content of row crops from canopy reflectance spectra through minimizing canopy structural effects and optimizing off-noon observation time. <i>Remote Sensing of Environment</i> , 2020, 248, 111985.	4.6	70
2081	Effects of nitrogen additions on mesophyll and stomatal conductance in Manchurian ash and Mongolian oak. <i>Scientific Reports</i> , 2020, 10, 10038.	1.6	17

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2082	An optimality-based model explains seasonal variation in C3 plant photosynthetic capacity. <i>Global Change Biology</i> , 2020, 26, 6493-6510.	4.2	29
2083	A Multi-Layer Model for Transpiration of Urban Trees Considering Vertical Structure. <i>Forests</i> , 2020, 11, 1164.	0.9	5
2084	Plant Chemistry Determines Host Preference and Performance of an Invasive Insect. <i>Frontiers in Plant Science</i> , 2020, 11, 594663.	1.7	15
2085	Plant Regeneration Above the Species Elevational Leading Edge: Trade-Off Between Seedling Recruitment and Plant Production. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	1.1	4
2086	Modified photochemical reflectance index to estimate leaf maximum rate of carboxylation based on spectral analysis. <i>Environmental Monitoring and Assessment</i> , 2020, 192, 788.	1.3	1
2087	Leaf Nitrogen Traits in Response to Plant Density and Nitrogen Supply in Oilseed Rape. <i>Agronomy</i> , 2020, 10, 1780.	1.3	6
2088	Coupling of Phosphorus Processes With Carbon and Nitrogen Cycles in the Dynamic Land Ecosystem Model: Model Structure, Parameterization, and Evaluation in Tropical Forests. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002123.	1.3	11
2089	Response of Medical Cannabis ( <i>Cannabis sativa</i> L.) to Nitrogen Supply Under Long Photoperiod. <i>Frontiers in Plant Science</i> , 2020, 11, 572293.	1.7	44
2090	The Carbon Cycle of Terrestrial Ecosystems. , 2020, , 141-182.		4
2091	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.	1.2	5
2092	Plasticity in nitrogen conservation strategy under C gain variation in annual and perennial <i>Physaria</i> (Brassicaceae). <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2020, 270, 151659.	0.6	1
2093	Photosynthetic light-use efficiency of rice leaves under fluctuating incident light. , 2020, 3, e20030.		5
2094	Angle effects of vegetation indices and the influence on prediction of SPAD values in soybean and maize. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2020, 93, 102198.	1.4	22
2095	Heterophyllous Shoots of Japanese Larch Trees: The Seasonal and Yearly Variation in CO2 Assimilation Capacity of the Canopy Top with Changing Environment. <i>Plants</i> , 2020, 9, 1278.	1.6	4
2096	Climate warming alters photosynthetic responses to elevated CO <sub>2</sub> in prairie plants. <i>American Journal of Botany</i> , 2020, 107, 1238-1252.	0.8	4
2097	Perspectives of using the water hyacinth ( <i>Eichhornia heterosperma</i> ) for self-purification in a Colombian water reservoir. <i>Fundamental and Applied Limnology</i> , 2020, 193, 347-357.	0.4	0
2098	Small subunits can determine enzyme kinetics of tobacco Rubisco expressed in <i>Escherichia coli</i> . <i>Nature Plants</i> , 2020, 6, 1289-1299.	4.7	35
2099	Adaptation of Willows in River Lowlands to Flooding under Arctic Amplification: Evidence from Nitrogen Content and Stable Isotope Dynamics. <i>Wetlands</i> , 2020, 40, 2413-2424.	0.7	1

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2100	Morphological and physiological factors contributing to early vigor in the elite rice cultivar 9,311. <i>Scientific Reports</i> , 2020, 10, 14813.	1.6	12
2102	<sup>31</sup> P-NMR Metabolomics Revealed Species-Specific Use of Phosphorous in Trees of a French Guiana Rainforest. <i>Molecules</i> , 2020, 25, 3960.	1.7	7
2103	How does contemporary selection shape oak phenotypes?. <i>Evolutionary Applications</i> , 2020, 13, 2772-2790.	1.5	18
2104	Cover Crop Selection by Jointly Optimizing Biomass Productivity, Biological Nitrogen Fixation, and Transpiration Efficiency: Application to Two <i>Crotalaria</i> Species. <i>Agronomy</i> , 2020, 10, 1116.	1.3	11
2105	Role of sedoheptulose-1,7 biphosphatase in low light tolerance of rice ( <i>Oryza sativa</i> L.). <i>Physiology and Molecular Biology of Plants</i> , 2020, 26, 2465-2485.	1.4	12
2106	Does the Organ-Based N Dilution Curve Improve the Predictions of N Status in Winter Wheat?. <i>Agriculture (Switzerland)</i> , 2020, 10, 500.	1.4	11
2107	A Novel Method for Estimating Nitrogen Stress in Plants Using Smartphones. <i>Horticulturae</i> , 2020, 6, 74.	1.2	3
2108	RTM-based dynamic absorption integrals for the retrieval of biochemical vegetation traits. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2020, 93, 102219.	1.4	10
2109	Variations of the biodiversity and carbon functions of karst forests in two morphologically different sites in southwestern China. <i>Israel Journal of Ecology and Evolution</i> , 2020, 67, 9-16.	0.2	1
2110	Strong overestimation of water-use efficiency responses to rising CO <sub>2</sub> in tree-ring studies. <i>Global Change Biology</i> , 2020, 26, 4538-4558.	4.2	36
2111	Lineage and latitudinal variation in <i>Phragmites australis</i> tolerance to herbivory: implications for invasion success. <i>Oikos</i> , 2020, 129, 1341-1357.	1.2	15
2112	Century-long apparent decrease in intrinsic water-use efficiency with no evidence of progressive nutrient limitation in African tropical forests. <i>Global Change Biology</i> , 2020, 26, 4449-4461.	4.2	20
2113	Variability in the chloroplast area lining the intercellular airspace and cell walls drives mesophyll conductance in gymnosperms. <i>Journal of Experimental Botany</i> , 2020, 71, 4958-4971.	2.4	19
2114	In vitro ruminal fermentation parameters and methane production of Marandu palisadegrass ( <i>Tripsacum dandeyanum</i> ) cv. Tj ETQq1 1 0.784314 rgBT /Overlock 100. <i>Grass and Forage Science</i> , 2020, 75, 339-350.	1.2	1
2115	Interactive effects of water and CO <sub>2</sub> on light response efficiency and gas exchange traits in pine ( <i>Pinus</i> ) and spruce ( <i>Picea</i> ) species. <i>Canadian Journal of Forest Research</i> , 2020, 50, 1194-1205.	0.8	3
2116	Transparent polyethylene covering film in tropical grapevines does not alter photosynthesis, plant growth, fruit quality or yield. <i>Theoretical and Experimental Plant Physiology</i> , 2020, 32, 255-270.	1.1	1
2117	Normalization criteria determine the interpretation of nitrogen effects on the root hydraulics of pine seedlings. <i>Tree Physiology</i> , 2020, 40, 1381-1391.	1.4	3
2118	Foliar functional traits from imaging spectroscopy across biomes in eastern North America. <i>New Phytologist</i> , 2020, 228, 494-511.	3.5	109

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2121	Potato Tuber Greening Risk is Associated with Tuber Nitrogen Content. <i>American Journal of Potato Research</i> , 2020, 97, 360-366.	0.5	5
2122	In Vivo Metabolic Regulation of Alternative Oxidase under Nutrient Deficiency—Interaction with Arbuscular Mycorrhizal Fungi and Rhizobium Bacteria. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4201.	1.8	9
2123	Responses of soil enzyme activities and plant growth in a eucalyptus seedling plantation amended with bacterial fertilizers. <i>Archives of Microbiology</i> , 2020, 202, 1381-1396.	1.0	22
2124	Photosynthetic Mechanisms of Metaxenia Responsible for Enlargement of <i>Carya cathayensis</i> Fruits at Late Growth Stages. <i>Frontiers in Plant Science</i> , 2020, 11, 84.	1.7	5
2125	Global response patterns of plant photosynthesis to nitrogen addition: A meta-analysis. <i>Global Change Biology</i> , 2020, 26, 3585-3600.	4.2	139
2126	Changes in oak ( <i>Quercus robur</i> ) photosynthesis after winter moth ( <i>Operophtera brumata</i> ) herbivory are not explained by changes in chemical or structural leaf traits. <i>PLoS ONE</i> , 2020, 15, e0228157.	1.1	8
2127	Genome-Wide Association Mapping of Dark Green Color Index using a Diverse Panel of Soybean Accessions. <i>Scientific Reports</i> , 2020, 10, 5166.	1.6	13
2128	Using NDVI to Differentiate Wheat Genotypes Productivity Under Dryland and Irrigated Conditions. <i>Remote Sensing</i> , 2020, 12, 824.	1.8	47
2129	Crop nitrogen monitoring: Recent progress and principal developments in the context of imaging spectroscopy missions. <i>Remote Sensing of Environment</i> , 2020, 242, 111758.	4.6	183
2130	The Ecophysiological Response of Two Invasive Submerged Plants to Light and Nitrogen. <i>Frontiers in Plant Science</i> , 2019, 10, 1747.	1.7	9
2131	Effects of Overproduction of Rubisco Activase on Rubisco Content in Transgenic Rice Grown at Different N Levels. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1626.	1.8	24
2132	Ecological condition of natural forests located within the territory of a large industrial center, Eastern Siberia, Russia. <i>Environmental Science and Pollution Research</i> , 2020, 27, 22400-22413.	2.7	2
2133	Maximum Carboxylation Rate Estimation With Chlorophyll Content as a Proxy of Rubisco Content. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2020JG005748.	1.3	19
2134	Rapid nitrogen loss from ectomycorrhizal pine germinants signaled by their fungal symbiont. <i>Mycorrhiza</i> , 2020, 30, 407-417.	1.3	4
2135	CuO Nanoparticles Alter the Rhizospheric Bacterial Community and Local Nitrogen Cycling for Wheat Grown in a Calcareous Soil. <i>Environmental Science &amp; Technology</i> , 2020, 54, 8699-8709.	4.6	65
2136	Mapping canopy nitrogen in European forests using remote sensing and environmental variables with the random forests method. <i>Remote Sensing of Environment</i> , 2020, 247, 111933.	4.6	46

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2137	Monitoring nitrogen status of vegetable crops and soils for optimal nitrogen management. <i>Agricultural Water Management</i> , 2020, 241, 106356.	2.4	39
2138	Integrated analysis on biochemical profiling and transcriptome revealed nitrogen-driven difference in accumulation of saponins in a medicinal plant <i>Panax notoginseng</i> . <i>Plant Physiology and Biochemistry</i> , 2020, 154, 564-580.	2.8	15
2139	Effects of leaf age, elevation and light conditions on photosynthesis and leaf traits in saplings of two evergreen conifers, <i>Abies veitchii</i> and <i>A. mariesii</i> . <i>Journal of Plant Ecology</i> , 2020, 13, 460-469.	1.2	9
2140	Estimation of Leaf Photosynthetic Capacity From Leaf Chlorophyll Content and Leaf Age in a Subtropical Evergreen Coniferous Plantation. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005020.	1.3	25
2141	Plot-level rapid screening for photosynthetic parameters using proximal hyperspectral imaging. <i>Journal of Experimental Botany</i> , 2020, 71, 2312-2328.	2.4	54
2142	Vegetation state changes in the course of shrub encroachment in an African savanna since about 1850 CE and their potential drivers. <i>Ecology and Evolution</i> , 2020, 10, 962-979.	0.8	17
2143	Partitioning of assimilates. , 2020, , 149-198.		0
2144	Effect of elevated ozone, nitrogen availability and mesophyll conductance on the temperature responses of leaf photosynthetic parameters in poplar. <i>Tree Physiology</i> , 2020, 40, 484-497.	1.4	15
2145	Biogeographic historical legacies in the net primary productivity of Northern Hemisphere forests. <i>Ecology Letters</i> , 2020, 23, 800-810.	3.0	22
2146	Photons to food: genetic improvement of cereal crop photosynthesis. <i>Journal of Experimental Botany</i> , 2020, 71, 2226-2238.	2.4	54
2147	Plasticity of Leaf Respiratory and Photosynthetic Traits in <i>Eucalyptus grandis</i> and <i>E. regnans</i> Grown Under Variable Light and Nitrogen Availability. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	1.0	4
2148	A low-cost smartphone controlled sensor based on image analysis for estimating whole-plant tissue nitrogen (N) content in floriculture crops. <i>Computers and Electronics in Agriculture</i> , 2020, 169, 105173.	3.7	17
2149	Intraspecific functional differences of subalpine plant species growing in low-altitude microrefugia and high-altitude habitats. <i>Plant Ecology</i> , 2020, 221, 155-166.	0.7	2
2150	Nematode communities, plant nutrient economy and life cycle characteristics jointly determine plant monoculture performance over 12 years. <i>Oikos</i> , 2020, 129, 466-479.	1.2	9
2151	Effects of Soil Microbes on Functional Traits of Loblolly Pine ( <i>Pinus taeda</i> ) Seedling Families From Contrasting Climates. <i>Frontiers in Plant Science</i> , 2019, 10, 1643.	1.7	7
2152	Herbage responses of signalgrass under full sun or shade in a silvopasture system using tree legumes. <i>Agronomy Journal</i> , 2020, 112, 1839-1848.	0.9	7
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2155	The scale dependency of trait-based tree neighborhood models. <i>Journal of Vegetation Science</i> , 2020, 31, 581-593.	1.1	11

#	ARTICLE	IF	CITATIONS
2156	Establishment and Application of Critical Nitrogen Dilution Curve for Rice Based on Leaf Dry Matter. <i>Agronomy</i> , 2020, 10, 367.	1.3	12
2157	Photoperiod and CO <sub>2</sub> elevation influence morphological and physiological responses to drought in trembling aspen: implications for climate change-induced migration. <i>Tree Physiology</i> , 2020, 40, 917-927.	1.4	10
2158	Estimating Plant Nitrogen Concentration of Maize Using a Leaf Fluorescence Sensor across Growth Stages. <i>Remote Sensing</i> , 2020, 12, 1139.	1.8	19
2159	Plastic film mulching with drip irrigation promotes maize ( <i>Zea mays</i> L.) yield and water-use efficiency by improving photosynthetic characteristics. <i>Archives of Agronomy and Soil Science</i> , 2021, 67, 191-204.	1.3	12
2160	Elevated CO <sub>2</sub> offsets the alteration of foliar chemicals (n-icosane, geranyl acetate, and elixene) induced by elevated O <sub>3</sub> in three taxa of O <sub>3</sub> -tolerant eucalypts. <i>Journal of Forestry Research</i> , 2021, 32, 789-803.	1.7	3
2161	Effects of pioneer N <sub>2</sub> -fixing plants on the resource status and establishment of neighboring non-N <sub>2</sub> -fixing plants in a newly formed glacier floodplain, eastern Tibetan Plateau. <i>Plant and Soil</i> , 2021, 458, 261-276.	1.8	9
2162	Effects of introduction of sorghum RbcS with rice RbcS knockdown by RNAi on photosynthetic activity and dry weight in rice. <i>Plant Production Science</i> , 2021, 24, 346-353.	0.9	7
2163	Leaf traits and canopy structure together explain canopy functional diversity: an airborne remote sensing approach. <i>Ecological Applications</i> , 2021, 31, e02230.	1.8	26
2164	Does economic optimisation explain LAI and leaf trait distributions across an Amazon soil moisture gradient?. <i>Global Change Biology</i> , 2021, 27, 587-605.	4.2	4
2165	Water uptake depth is coordinated with leaf water potential, water-use efficiency and drought vulnerability in karst vegetation. <i>New Phytologist</i> , 2021, 229, 1339-1353.	3.5	93
2166	Responses of functional traits to seven-year nitrogen addition in two tree species: coordination of hydraulics, gas exchange and carbon reserves. <i>Tree Physiology</i> , 2021, 41, 190-205.	1.4	17
2167	Contrasting physiological traits of shade tolerance in <i>Pinus</i> and Podocarpaceae native to a tropical Vietnamese forest: insight from an aberrant flat-leaved pine. <i>Tree Physiology</i> , 2021, 41, 223-239.	1.4	4
2168	Biomass partitioning and photosynthesis in the quest for nitrogen-use efficiency for citrus tree species. <i>Tree Physiology</i> , 2021, 41, 163-176.	1.4	3
2169	Spatial, genetic and biotic factors shape within-crown leaf trait variation and herbivore performance in a foundation tree species. <i>Functional Ecology</i> , 2021, 35, 54-66.	1.7	10
2170	Processes at the soil-root interface determine the different responses of nutrient limitation and metal toxicity in forbs and grasses to nitrogen enrichment. <i>Journal of Ecology</i> , 2021, 109, 927-938.	1.9	27
2171	Bioenergy sorghum maintains photosynthetic capacity in elevated ozone concentrations. <i>Plant, Cell and Environment</i> , 2021, 44, 729-746.	2.8	12
2172	Leafy season length is reduced by a prolonged soil water deficit but not by repeated defoliation in beech trees ( <i>Fagus sylvatica</i> L.): comparison of response among regional populations grown in a common garden. <i>Agricultural and Forest Meteorology</i> , 2021, 297, 108228.	1.9	6
2173	The impact of global dimming on crop yields is determined by the source-sink imbalance of carbon during grain filling. <i>Global Change Biology</i> , 2021, 27, 689-708.	4.2	41

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2175	Functional traits indicate a continuum of tree drought strategies across a soil water availability gradient in a tropical dry forest. <i>Forest Ecology and Management</i> , 2021, 482, 118740.	1.4	41
2176	Alteration of plant physiology by the application of biochar for remediation of metals. , 2021, , 245-262.		1
2177	Mapping spatial variability of foliar nitrogen and carbon in Indian tropical moist deciduous sal ( <i>Shorea robusta</i> ) forest using machine learning algorithms and Sentinel-2 data. <i>International Journal of Remote Sensing</i> , 2021, 42, 1139-1159.	1.3	9
2178	Combined experimental drought and nitrogen loading: the role of species-dependent leaf level control of carbon and water exchange in a temperate grassland. <i>Plant Biology</i> , 2021, 23, 427-437.	1.8	2
2179	Intercropping combined with nitrogen input promotes proso millet ( <i>Panicum miliaceum</i> L.) growth and resource use efficiency to increase grain yield on the Loess plateau of China. <i>Agricultural Water Management</i> , 2021, 243, 106434.	2.4	27
2180	PROSPECT-PRO for estimating content of nitrogen-containing leaf proteins and other carbon-based constituents. <i>Remote Sensing of Environment</i> , 2021, 252, 112173.	4.6	115
2181	The inverse relationship between solar-induced fluorescence yield and photosynthetic capacity: benefits for field phenotyping. <i>Journal of Experimental Botany</i> , 2021, 72, 1295-1306.	2.4	19
2182	Response of Dry Bean to Nitrogen Fertilization and Inoculation with <i>Rhizobium Tropici</i> and <i>Azospirillum Brasiliensis</i> . <i>Communications in Soil Science and Plant Analysis</i> , 2021, 52, 686-694.	0.6	1
2183	Foliar summer frost resistance measured via electrolyte leakage approach as related to plant distribution, community composition and plant traits. <i>Functional Ecology</i> , 2021, 35, 590-600.	1.7	5
2184	Estimation of leaf nitrogen content and photosynthetic nitrogen use efficiency in wheat using sun-induced chlorophyll fluorescence at the leaf and canopy scales. <i>European Journal of Agronomy</i> , 2021, 122, 126192.	1.9	41
2185	Do invasive jumping worms impact sugar maple ( <i>Acer saccharum</i> ) water-use dynamics in a Central Hardwoods forest?. <i>Biological Invasions</i> , 2021, 23, 129-141.	1.2	1
2186	Mineral Nutrition of Plants Under Soil Water Deficit Condition: A Review. , 2021, , 287-391.		1
2187	El Niño modifies nutrient status in oil palm and helps foliage to recover from yellowing symptoms: new analysis and perspectives. <i>Cahiers Agricultures</i> , 2021, 30, 34.	0.4	0
2188	Chapter 11 Engineering Photosynthetic CO <sub>2</sub> Assimilation to Develop New Crop Varieties to Cope with Future Climates. <i>Advances in Photosynthesis and Respiration</i> , 2021, , 333-354.	1.0	2
2189	Chapter 9 The Outlook for C <sub>4</sub> Crops in Future Climate Scenarios. <i>Advances in Photosynthesis and Respiration</i> , 2021, , 251-281.	1.0	5
2190	Optimal Light Wavelength for a Novel Cultivation System with a Supplemental Upward Lighting in Plant Factory with Artificial Lighting. <i>Environmental Control in Biology</i> , 2021, 59, 21-27.	0.3	4
2191	Genotypic variation in C and N isotope discrimination suggests local adaptation of heart-leaved willow. <i>Tree Physiology</i> , 2022, 42, 32-43.	1.4	10



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2193	Dipeptidyl peptidase IV inhibitory dipeptides contained in hydrolysates of green tea grounds. Food Science and Technology Research, 2021, 27, 329-334.	0.3	0
2194	Light intensity alters the phytoremediation potential of Lemna minor. Environmental Science and Pollution Research, 2021, 28, 16394-16407.	2.7	18
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2196	Effect of Soil Water Deficit on Nitrogen Metabolism in Plants: A Review. , 2021, , 193-285.		0
2197	Implementation of nitrogen cycle in the CLASSIC land model. Biogeosciences, 2021, 18, 669-706.	1.3	11
2198	Remote Sensing Inversion of Leaf Maximum Carboxylation Rate Based on a Mechanistic Photosynthetic Model. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	1
2199	Effects of biochar, compost, and biochar-compost on soil total nitrogen and available phosphorus concentrations in a corn field in Papua New Guinea. Environmental Science and Pollution Research, 2021, 28, 27411-27419.	2.7	26
2200	Predictability of leaf traits with climate and elevation: a case study in Gongga Mountain, China. Tree Physiology, 2021, 41, 1336-1352.	1.4	19
2201	Evidence of elemental homeostasis in fine root and leaf tissues of saplings across a fertility gradient in tropical montane forest in Hainan, China. Plant and Soil, 2021, 460, 625-646.	1.8	13
2202	Chapter 4 Photosynthetic Acclimation to Temperature and CO <sub>2</sub> : The Role of Leaf Nitrogen. Advances in Photosynthesis and Respiration, 2021, , 79-101.	1.0	0
2203	Continuous Light Does Not Compromise Growth and Yield in Mini-Cucumber Greenhouse Production with Supplemental LED Light. Plants, 2021, 10, 378.	1.6	12
2204	Nitrogen rate and source effects on foliar sugar, glycoalkaloid, and amino acid composition of potato Russet Burbank. Canadian Journal of Plant Science, 2021, 101, 61-72.	0.3	3
2205	Elevated Nitrogen Priming Induced Oxinitro-Responses and Water Deficit Tolerance in Rice. Plants, 2021, 10, 381.	1.6	4
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2207	Photochemistry of Photosystems II and I in Rice Plants Grown under Different N Levels at Normal and High Temperature. Plant and Cell Physiology, 2021, 62, 1121-1130.	1.5	13
2208	CO <sub>2</sub> diffusion in tobacco: a link between mesophyll conductance and leaf anatomy. Interface Focus, 2021, 11, 20200040.	1.5	21
2209	Root carbon and nutrient homeostasis determines downy oak sapling survival and recovery from drought. Tree Physiology, 2021, 41, 1400-1412.	1.4	19

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2210	Leaf productivity and persistence have been improved during soybean ( <i>Glycine max</i> ) domestication and evolution. <i>Journal of Plant Research</i> , 2021, 134, 223-233.	1.2	5
2211	High nitrogen inhibits photosynthetic performance in a shade-tolerant and N-sensitive species <i>Panax notoginseng</i> . <i>Photosynthesis Research</i> , 2021, 147, 283-300.	1.6	12
2213	Role of <i>Suillus placidus</i> in Improving the Drought Tolerance of Masson Pine ( <i>Pinus massoniana</i> Lamb.) Seedlings. <i>Forests</i> , 2021, 12, 332.	0.9	23
2214	Application of a coupled model of photosynthesis, stomatal conductance and transpiration for rice leaves and canopy. <i>Computers and Electronics in Agriculture</i> , 2021, 182, 106047.	3.7	10
2215	Effects of clonal integration on allelopathy of invasive plant <i>Wedelia trilobata</i> under heterogeneous light conditions. <i>Journal of Plant Ecology</i> , 2022, 15, 663-671.	1.2	10
2216	Changes in Leaf-Level Nitrogen Partitioning and Mesophyll Conductance Deliver Increased Photosynthesis for <i>Lolium perenne</i> Leaves Engineered to Accumulate Lipid Carbon Sinks. <i>Frontiers in Plant Science</i> , 2021, 12, 641822.	1.7	14
2217	Artificial shade shelters mitigate harsh microclimate conditions and enhance growth in tropical tree seedlings planted in degraded land. <i>Tropics</i> , 2021, 29, 121-132.	0.2	2
2218	Reduced photosynthetic thermal acclimation capacity under elevated ozone in poplar ( <i>Populus</i> )	0.784314	14
2219	Coupled whole-tree optimality and xylem hydraulics explain dynamic biomass partitioning. <i>New Phytologist</i> , 2021, 230, 2226-2245.	3.5	15
2220	Leaf N content regulates the speed of photosynthetic induction under fluctuating light among canola genotypes ( <i>Brassica napus</i> L.). <i>Physiologia Plantarum</i> , 2021, 172, 1844-1852.	2.6	15
2221	Global climate and nutrient controls of photosynthetic capacity. <i>Communications Biology</i> , 2021, 4, 462.	2.0	23
2222	Alternating Red/Blue Light Increases Leaf Thickness and Mesophyll Cell Density in the Early Growth Stage, Improving Photosynthesis and Plant Growth in Lettuce. <i>Environmental Control in Biology</i> , 2021, 59, 59-67.	0.3	8
2223	Beneficial effects of nitrogen deposition on carbon and nitrogen accumulation in grasses over other species in Inner Mongolian grasslands. <i>Global Ecology and Conservation</i> , 2021, 26, e01507.	1.0	3
2224	Topdressing Nitrogen Demand Prediction in Rice Crop Using Machine Learning Systems. <i>Agriculture (Switzerland)</i> , 2021, 11, 312.	1.4	10
2225	Warming induces divergent stomatal dynamics in co-occurring boreal trees. <i>Global Change Biology</i> , 2021, 27, 3079-3094.	4.2	9
2226	Utilization of Fish Farm Effluent for Irrigation Short Rotation Willow ( <i>Salix alba</i> L.) under Lysimeter Conditions. <i>Forests</i> , 2021, 12, 457.	0.9	9
2227	Nitrogen, phosphorous and potassium levels affected growth indices, leaf gas exchange parameters and biomass production of henna ( <i>Lawsonia inermis</i> L.) ecotypes. <i>Industrial Crops and Products</i> , 2021, 163, 113297.	2.5	4
2228	Growing in Mixed Stands Increased Leaf Photosynthesis and Physiological Stress Resistance in Moso Bamboo and Mature Chinese Fir Plantations. <i>Frontiers in Plant Science</i> , 2021, 12, 649204.	1.7	8

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2230	Photosynthesis, Chlorophyll Fluorescence, and Yield of Peanut in Response to Biochar Application. <i>Frontiers in Plant Science</i> , 2021, 12, 650432.	1.7	25
2231	Changes in carbon and nitrogen metabolism during seawater-induced mortality of <i>Picea sitchensis</i> trees. <i>Tree Physiology</i> , 2021, 41, 2326-2340.	1.4	8
2232	Can plant functional traits explain shifts in community composition in a changing Arctic?. <i>Arctic Science</i> , 0, , .	0.9	1
2233	Disaggregating the effects of nitrogen addition on gross primary production in a boreal Scots pine forest. <i>Agricultural and Forest Meteorology</i> , 2021, 301-302, 108337.	1.9	8
2234	Investigating Vegetation Responses to Underground Nuclear Explosions Through Integrated Analyses. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG005831.	1.3	0
2235	The Effect of Irrigation Management and Nitrogen Fertilizer On Grain Yield and Water-use Efficiency of Rice Cultivars in Northern Iran. <i>Gesunde Pflanzen</i> , 2021, 73, 359-366.	1.7	6
2236	Leaf anatomical characteristics are less important than leaf biochemical properties in determining photosynthesis responses to nitrogen top-dressing. <i>Journal of Experimental Botany</i> , 2021, 72, 5709-5720.	2.4	23
2237	Vegetative anatomy and photosynthetic performance of the only known winter-green <i>Cypripedium</i> species: implications for divergent and convergent evolution of slipper orchids. <i>Botanical Journal of the Linnean Society</i> , 2021, 197, 527-540.	0.8	0
2238	Functional traits predict tree-level phenological strategies in a mesic Indian savanna. <i>Biotropica</i> , 2021, 53, 1432-1441.	0.8	1
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2241	Evaluating foliar characteristics as early indicators of plant response to biochar amendments. <i>Forest Ecology and Management</i> , 2021, 489, 119047.	1.4	5
2243	Improving the estimation accuracy of SPAD values for maize leaves by removing UAV hyperspectral image backgrounds. <i>International Journal of Remote Sensing</i> , 2021, 42, 5862-5881.	1.3	21
2244	Altitudinal variation of leaf carbon isotope for <i>Dendrosenecio keniensis</i> and <i>Lobelia gregoriana</i> in Mount Kenya alpine zone. <i>Biotropica</i> , 2021, 53, 1394-1405.	0.8	2
2245	Tuber and Tuberous Root Development. <i>Annual Review of Plant Biology</i> , 2021, 72, 551-580.	8.6	77
2246	Updating the steady-state model of C4 photosynthesis. <i>Journal of Experimental Botany</i> , 2021, 72, 6003-6017.	2.4	21
2247	Variation of leaf-level gas exchange rates and leaf functional traits of dominant trees across three successional stages in a Southeast Asian tropical forest. <i>Forest Ecology and Management</i> , 2021, 489, 119101.	1.4	6

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2249	Effects of Throughfall Exclusion on Photosynthetic Traits in Mature Japanese Cedar ( <i>Cryptomeria</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 6	0.9	6
2250	Potential metabolic mechanisms for inhibited chloroplast nitrogen assimilation under high CO <sub>2</sub> . <i>Plant Physiology</i> , 2021, 187, 1812-1833.	2.3	9
2251	Silicon mitigates nutritional stress in quinoa ( <i>Chenopodium quinoa</i> Willd.). <i>Scientific Reports</i> , 2021, 11, 14665.	1.6	20
2252	Improved photosynthesis by leaf nutrient content enhances water use efficiency in <i>Juniperus tibetica</i> along elevation gradients above 4000 m a.s.l.. <i>Plant Ecology and Diversity</i> , 0, , 1-12.	1.0	2
2253	Chlorophyll pigment and needle macronutrient responses and interactions to soil moisture and atmospheric CO <sub>2</sub> treatments of eight pine and spruce species. <i>Trees - Structure and Function</i> , 2021, 35, 2069-2085.	0.9	4
2254	Establishment of actinobacteriaâ€“ <i>Satureja hortensis</i> interactions under future climate CO <sub>2</sub> -enhanced crop productivity in drought environments of Saudi Arabia. <i>Environmental Science and Pollution Research</i> , 2021, 28, 62853-62867.	2.7	7
2255	Effect of various nitrogen sources on yield, antioxidant activity and active substances of <i>Crocus sativus</i> L.. <i>Acta Horticulturae</i> , 2021, , 537-542.	0.1	1
2256	The Effects of Different Rates of Chicken Manure and Harvest Intervals on the Bioactive Compounds of Bitter Leaf ( <i>Vernonia amygdalina</i> Del.). <i>Journal of Tropical Crop Science</i> , 2021, 8, 80-88.	0.1	1
2257	Impact of the facultative parasitic weed <i>Rhamphicarpa fistulosa</i> (Hochst.) Benth. on photosynthesis of its host <i>Oryza sativa</i> L.. <i>Journal of Plant Physiology</i> , 2021, 262, 153438.	1.6	3
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2260	Potassium limitation of wood productivity: A review of elementary processes and ways forward to modelling illustrated by <i>Eucalyptus</i> plantations. <i>Forest Ecology and Management</i> , 2021, 494, 119275.	1.4	14
2261	The intraspecific variation of functional traits modulates drought resilience of European beech and pubescent oak. <i>Journal of Ecology</i> , 2021, 109, 3652-3669.	1.9	27
2262	Species-Specific Nitrogen Resorption Efficiency in <i>Quercus mongolica</i> and <i>Acer mono</i> in Response to Elevated CO <sub>2</sub> and Soil N Deficiency. <i>Forests</i> , 2021, 12, 1034.	0.9	1
2263	Interspecific competition and nitrogen application alter soil ecoenzymatic stoichiometry, microbial nutrient status, and improve grain yield in broomcorn millet/mung bean intercropping systems. <i>Field Crops Research</i> , 2021, 270, 108227.	2.3	14
2264	A model for the relationship between plant biomass and photosynthetic rate based on nutrient effects. <i>Ecosphere</i> , 2021, 12, e03678.	1.0	5
2265	Lianas and trees exhibit divergent intrinsic water-use efficiency along elevational gradients in South American and African tropical forests. <i>Global Ecology and Biogeography</i> , 2021, 30, 2259-2272.	2.7	7
2266	Mapping landscape canopy nitrogen content from space using PRISMA data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2021, 178, 382-395.	4.9	45

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2268	Global variation in the fraction of leaf nitrogen allocated to photosynthesis. <i>Nature Communications</i> , 2021, 12, 4866.	5.8	60
2269	Effect of crop straw biochars on the remediation of Cd-contaminated farmland soil by hyperaccumulator <i>Bidens pilosa</i> L.. <i>Ecotoxicology and Environmental Safety</i> , 2021, 219, 112332.	2.9	27
2270	Effects of Light, N and Defoliation on Biomass Allocation in <i>Poa annua</i> . <i>Plants</i> , 2021, 10, 1783.	1.6	3
2272	Nitrogen availability and precipitation variability regulated CO <sub>2</sub> fertilization effects on carbon fluxes in an alpine grassland. <i>Agricultural and Forest Meteorology</i> , 2021, 307, 108524.	1.9	8
2273	Does inoculation with associative bacteria improve tolerance to nitrogen deficiency in seedlings of Neotropical tree species?. <i>Environmental and Experimental Botany</i> , 2021, 189, 104529.	2.0	3
2274	Augmenting the living plant mesophyll into a photonic capacitor. <i>Science Advances</i> , 2021, 7, eabe9733.	4.7	13
2275	Use of alpha-naphthylacetic acid in ovary thinning and preharvest fruit drop reduction in apple trees. <i>Horticulture and Viticulture</i> , 2021, , 49-56.	0.0	0
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2277	Paramylon production by <i>Euglena gracilis</i> via mixotrophic cultivation using sewage effluent and waste organic compounds. <i>Bioresource Technology Reports</i> , 2021, 15, 100735.	1.5	3
2278	Intraspecific variation in seedling growth responses of a relict tree species <i>Euptelea pleiospermum</i> to precipitation manipulation along an elevation gradient. <i>Plant Ecology</i> , 0, , 1.	0.7	0
2279	Abiotic site conditions affect photosynthesis rates by changing leaf functional traits. <i>Basic and Applied Ecology</i> , 2021, , .	1.2	2
2280	Effect of elevation on photosynthesis of young mango ( <i>Mangifera indica</i> L.) trees. <i>Photosynthetica</i> , 2021, 59, 508-516.	0.9	1
2282	Nitrogen deposition shows no consistent negative nor positive effect on the response of forest productivity to drought across European FLUXNET forest sites.. <i>Environmental Research Communications</i> , 0, , .	0.9	6
2283	Down-Regulation of Photosynthesis to Elevated CO <sub>2</sub> and N Fertilization in Understory <i>Fraxinus rhynchophylla</i> Seedlings. <i>Forests</i> , 2021, 12, 1197.	0.9	2
2284	Short-term growth experiments “ A tool for quantifying lichen fitness across different mineral settings. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2021, 282, 151900.	0.6	4
2285	Temporally variable parameters simulate asymmetrical interannual variation of aboveground and belowground carbon pools in an alpine meadow. <i>Agricultural and Forest Meteorology</i> , 2021, 307, 108480.	1.9	1
2286	Roles of canopy architecture and nitrogen distribution in the better performance of an aerobic than a lowland rice cultivar under water deficit. <i>Field Crops Research</i> , 2021, 271, 108257.	2.3	11

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2287	Combined application of ascorbic acid and endophytic N-fixing <i>Azotobacter chroococcum</i> Avi2 modulates photosynthetic efficacy, antioxidants and growth-promotion in rice under moisture deficit stress. <i>Microbiological Research</i> , 2021, 250, 126808.	2.5	13
2288	Organ-specific critical N dilution curves and derived NNI relationships for winter wheat, winter oilseed rape and maize. <i>European Journal of Agronomy</i> , 2021, 130, 126365.	1.9	9
2289	Exploring environmental selection on genome size in angiosperms. <i>Trends in Plant Science</i> , 2021, 26, 1039-1049.	4.3	44
2290	Disentangling the effects of climate and defoliation on forest growth: The case of an outbreak of a <i>Thaumetopoea pityocampa</i> population with a shifted phenology in a <i>Pinus pinaster</i> monoculture. <i>Forest Ecology and Management</i> , 2021, 498, 119548.	1.4	4
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2292	Seasonal variations in leaf-level photosynthesis and water use efficiency of three isohydric to anisohydric conifers on the Tibetan Plateau. <i>Agricultural and Forest Meteorology</i> , 2021, 308-309, 108581.	1.9	16
2293	Response of water use efficiency and plant-soil C:N:P stoichiometry to stand quality in <i>Robinia pseudoacacia</i> on the Loess Plateau of China. <i>Catena</i> , 2021, 206, 105571.	2.2	14
2294	Effects of leaf age and canopy structure on gross ecosystem production in a subtropical evergreen Chinese fir forest. <i>Agricultural and Forest Meteorology</i> , 2021, 310, 108618.	1.9	6
2295	Spectral monitoring of wheat leaf nitrogen content based on canopy structure information compensation. <i>Computers and Electronics in Agriculture</i> , 2021, 190, 106434.	3.7	7
2296	Better revisiting chlorophyll content retrieval with varying senescent material and solar-induced chlorophyll fluorescence simulation on paddy rice during the entire growth stages. <i>Ecological Indicators</i> , 2021, 130, 108057.	2.6	3
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2298	Mixed red and blue light promotes tomato seedlings growth by influencing leaf anatomy, photosynthesis, CO <sub>2</sub> assimilation and endogenous hormones. <i>Scientia Horticulturae</i> , 2021, 290, 110500.	1.7	29
2299	Mild water and salt stress improve water use efficiency by decreasing stomatal conductance via osmotic adjustment in field maize. <i>Science of the Total Environment</i> , 2022, 805, 150364.	3.9	50
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