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## Leaf Nitrogen, Photosynthesis, and Crop Radiation Use Efficiency: A Review

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#	Paper	IF	Citations
869	Effect of leaf nitrogen and water regime on the photosynthetic capacity of kenaf ( <i>Hibiscus cannabinus</i> L.) under field conditions. <b>1990</b> , 41, 845		20
868	Effect of nitrogen application on growth and photosynthetic nitrogen use efficiency in two ecotypes of wild strawberry, <i>Fragaria chiloensis</i> . <b>1990</b> , 80, 612-618		7
867	Growth responses of rice in ammonium-based nutrient solution with variable calcium supply. <b>1990</b> , 125, 239-244		11
866	Components of relative growth rate and sensitivity to nitrogen availability in annual and perennial species of <i>Bromus</i> . <b>1990</b> , 84, 513-518		44
865	Competition by barley and pea against mustard: Effects on resource acquisition, photosynthesis and yield. <i>Agriculture, Ecosystems and Environment</i> , <b>1990</b> , 31, 155-172	5.7	24
864	Variability in crop radiation-use efficiency associated with vapor-pressure deficit. <i>Field Crops Research</i> , <b>1990</b> , 25, 171-181	5.5	105
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853	Yield forecasting. <b>1992</b> , 40, 211-236		73

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540	Effects of irrigation and planting patterns on radiation use efficiency and yield of winter wheat in North China. <b>2008</b> , 95, 469-476		70
539	Crop species present different qualitative types of response to N deficiency during their vegetative growth. <i>Field Crops Research</i> , <b>2008</b> , 105, 253-265	5.5	75
538	Amelioration of dense sodic subsoil using organic amendments increases wheat yield more than using gypsum in a high rainfall zone of southern Australia. <i>Field Crops Research</i> , <b>2008</b> , 107, 265-275	5.5	61
537	Determinism of carbon and nitrogen reserve accumulation in legume seeds. <b>2008</b> , 331, 780-7		18
536	Acclimation of Palmer Amaranth ( <i>Amaranthus palmeri</i> ) to Shading. <b>2008</b> , 56, 729-734		40
535	The model symbiotic association between <i>Medicago truncatula</i> cv. Jemalong and <i>Rhizobium meliloti</i> strain 2011 leads to N-stressed plants when symbiotic N <sub>2</sub> fixation is the main N source for plant growth. <i>Journal of Experimental Botany</i> , <b>2008</b> , 59, 3509-22	7	37
534	Relative contributions of light interception and radiation use efficiency to the reduction of maize productivity under cold temperatures. <b>2008</b> , 35, 885-899		26
533	The Response of Leaf Photosynthesis and Dry Matter Accumulation to Nitrogen Supply in an Older and a Newer Maize Hybrid. <i>Crop Science</i> , <b>2008</b> , 48, 656-665	2.4	122
532	Light interception and radiation use efficiency of fern- and unifoliate-leaf chickpea cultivars. <b>2008</b> , 88, 1025-1034		6
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525	The 'trade-off' between synthesis of primary and secondary compounds in young tomato leaves is altered by nitrate nutrition: experimental evidence and model consistency. <i>Journal of Experimental Botany</i> , <b>2009</b> , 60, 4301-14	7	67
524	Photosynthesis, Chlorophylls, and SPAD Readings in Coffee Leaves in Relation to Nitrogen Supply. <b>2009</b> , 40, 1512-1528		23
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422	Soybean Nitrogen Uptake and Utilization in Argentina and United States Cultivars. <i>Crop Science</i> , <b>2014</b> , 54, 1153-1165	2.4	28
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397	Canopy Carbon Assimilation and Crop Radiation-Use Efficiency Dependence on Leaf Nitrogen Content. <b>2015</b> , 95-107		4
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390	Soybean. <b>2015</b> , 311-355		21
389	Comparative performance of hybrid and elite inbred rice varieties with respect to their source-sink relationship. <b>2015</b> , 2015, 326802		10
388	Durum Wheat ( <i>Triticum durum</i> Desf): Relation between Photosynthetically Active Radiation Intercepted and Water Consumption under Different Nitrogen Rates. <b>2015</b> , 7,		0
387	Physiology and Developmental Morphology. <b>2015</b> , 87-125		2
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383	Use of a Crop Canopy Reflectance Sensor to Assess Corn Leaf Chlorophyll Content. <b>2015</b> , 135-150		5
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370	Growth response and radiation use efficiency in tomato exposed to short-term and long-term salinized soils. <b>2015</b> , 189, 139-149		16
369	Identification of QTL underlying physiological and morphological traits of flag leaf in barley. <b>2015</b> , 16, 29		33
368	Biological nitrogen fixation in soybean in Argentina: relationships with crop, soil, and meteorological factors. <b>2015</b> , 392, 239-252		65
367	Biomass production and yield of soybean grown under converted paddy fields with excess water during the early growth stage. <i>Field Crops Research</i> , <b>2015</b> , 180, 221-227	5.5	33

366	Estimating leaf nitrogen concentration in heterogeneous crop plants from hyperspectral reflectance. <b>2015</b> , 36, 4652-4667		26
365	Determination of optimal strip width in strip intercropping of maize ( <i>Zea mays</i> L.) and bean ( <i>Phaseolus vulgaris</i> L.) in Northeast Iran. <b>2015</b> , 106, 343-350		33
364	Quantifying crop responses to nitrogen and avenues to improve nitrogen-use efficiency. <b>2015</b> , 161-206		34
363	Breeding challenge: improving yield potential. <b>2015</b> , 397-421		3
362	Photosynthetic Activity of Superior Varieties and Local Cassava ( <i>Manihot esculenta</i> Crantz) Indonesia. <b>2016</b> , 8, 194		2
361	Genetic and Physiological Diversity in the Leaf Photosynthetic Capacity of Soybean. <i>Crop Science</i> , <b>2016</b> , 56, 2731-2741	2.4	12
360	Vertical Distribution of Photosynthetic Nitrogen Use Efficiency and Its Response to Nitrogen in Field-Grown Maize. <i>Crop Science</i> , <b>2016</b> , 56, 397-407	2.4	17
359	Vertical Profile of Leaf Nitrogen Distribution at Different Densities of Plant And Different Levels of N Fertilizer on Corn Hybrids Canopy. <b>2016</b> , 10, 57		2
358	Improved Carbon and Nitrogen Assimilation for Increased Yield. <b>2016</b> , 537-568		3
357	Redefining Agricultural Residues as Bioenergy Feedstocks. <b>2016</b> , 9,		17
356	Estimating Vegetation Primary Production in the Heihe River Basin of China with Multi-Source and Multi-Scale Data. <b>2016</b> , 11, e0153971		23
355	Plant Characteristics of High-Yielding Upland Rice Cultivars in West Africa. <i>Crop Science</i> , <b>2016</b> , 56, 276-286		4
354	Within-Leaf Nitrogen Allocation in Adaptation to Low Nitrogen Supply in Maize during Grain-Filling Stage. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 699	6.2	70
353	Connecting Biochemical Photosynthesis Models with Crop Models to Support Crop Improvement. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 1518	6.2	44
352	Carbon Assimilation, Herbage Plant-Part Accumulation, and Organic Reserves of Grazed <i>Mulato Ilã</i> Brachiariagrass Pastures. <i>Crop Science</i> , <b>2016</b> , 56, 2853-2860	2.4	8
351	Radiation-Use Efficiency, Biomass Production, and Grain Yield in Two Maize Hybrids Differing in Drought Tolerance. <b>2016</b> , 202, 269-280		26
350	Genetic Improvements in Rice Yield and Concomitant Increases in Radiation- and Nitrogen-Use Efficiency in Middle Reaches of Yangtze River. <b>2016</b> , 6, 21049		41
349	Nitrogen-limited light use efficiency in wheat crop simulators: comparing three model approaches. <b>2016</b> , 154, 1090-1101		7

348	Establishment of ANEDr model for evaluating absorbed-nitrogen effects on wheat dry matter production. <b>2016</b> , 15, 2257-2265		0
347	Leaf photosynthetic performance related to higher radiation use efficiency and grain yield in hybrid rice. <i>Field Crops Research</i> , <b>2016</b> , 193, 87-93	5.5	43
346	Soil heterotrophic respiration is insensitive to changes in soil water content but related to microbial access to organic matter. <b>2016</b> , 274, 68-78		35
345	Relationship between photosynthetically active radiation and understory productivity across a forest-savanna continuum. <b>2016</b> , 374, 51-60		9
344	Effect of N fertilization rate on soil alkali-hydrolyzable N, subtending leaf N concentration, fiber yield, and quality of cotton. <b>2016</b> , 4, 323-330		26
343	Simple and robust methods for remote sensing of canopy chlorophyll content: a comparative analysis of hyperspectral data for different types of vegetation. <i>Plant, Cell and Environment</i> , <b>2016</b> , 39, 2609-2623	8.4	80
342	Extinction coefficients and radiation use efficiency of barley under different irrigation regimes and sowing dates. <b>2016</b> , 178, 126-136		6
341	Breeding for increased nitrogen-use efficiency: a review for wheat ( <i>T. aestivum</i> L.). <b>2016</b> , 135, 255-278		105
340	Temperature explains the yield difference of double-season rice between tropical and subtropical environments. <i>Field Crops Research</i> , <b>2016</b> , 198, 303-311	5.5	24
339	Simulating yield and water use of a sorghum&wpea intercrop using APSIM. <b>2016</b> , 177, 317-328		24
338	Retrieval of regional LAI over agricultural land from an Indian geostationary satellite and its application for crop yield estimation. <b>2016</b> , 1-23		2
337	Canopy Architecture and Leaf Nitrogen Distribution of Rice ( <i>Oryza sativa</i> L.) under Chronic Soil Water Deficit. <b>2016</b> , 202, 464-471		5
336	Modelling N and Dry Matter Partitioning between Leaf and Stem of Wheat under Varying N Supply. <b>2016</b> , 202, 576-586		7
335	Benefits, challenges and opportunities of integrated crop-livestock systems and their potential application in the high rainfall zone of southern Australia: A review. <i>Agriculture, Ecosystems and Environment</i> , <b>2016</b> , 235, 17-31	5.7	23
334	Yield and dry matter productivity of Japanese and US soybean cultivars. <b>2016</b> , 19, 257-266		16
333	Response of the leaf photosynthetic rate to available nitrogen in erect panicle-type rice ( <i>Oryza sativa</i> L.) cultivar, Shennong265. <b>2016</b> , 19, 420-426		5
332	Evidence for Compensatory Photosynthetic and Yield Response of Soybeans to Aphid Herbivory. <b>2016</b> , 109, 1177-1187		10
331	Reduced soybean photosynthetic nitrogen use efficiency associated with evolutionary genetic bottlenecks. <b>2016</b> , 43, 862-869		6

330	Prospects of photosynthetic research for increasing agricultural productivity, with emphasis on the tropical C4 Amaranthus and the cassava C3-C4 crops. <b>2016</b> , 54, 161-184		20
329	Nitrogen redistribution and its relationship with the expression of GmATG8c during seed filling in soybean. <i>Journal of Plant Physiology</i> , <b>2016</b> , 192, 71-4	3.6	7
328	Addition of nitrogen fertiliser increases net ecosystem carbon dioxide uptake and the loss of soil organic carbon in grassland growing in mesocosms. <b>2016</b> , 266, 75-83		16
327	Analysis of yield components and dry matter production in a simplified soilless tomato culture system by using controlled-release fertilizers during summer and winter greenhouse production. <b>2016</b> , 202, 17-24		12
326	Soybean shows an attenuated nitrogen dilution curve irrespective of maturity group and sowing date. <i>Field Crops Research</i> , <b>2016</b> , 186, 1-9	5.5	19
325	Soil carbon 4 per mille. <b>2017</b> , 292, 59-86		803
324	N:P:S stoichiometry in grains and physiological attributes associated with grain yield in maize as affected by phosphorus and sulfur nutrition. <i>Field Crops Research</i> , <b>2017</b> , 203, 128-138	5.5	23
323	Responses to atmospheric CO <sub>2</sub> concentrations in crop simulation models: a review of current simple and semicomplex representations and options for model development. <b>2017</b> , 23, 1806-1820		27
322	Leaf and canopy scale drivers of genotypic variation in soybean response to elevated carbon dioxide concentration. <b>2017</b> , 23, 3908-3920		17
321	Cytokinins: A key player in determining differences in patterns of canopy senescence in Stay-Green and Fast Dry-Down sunflower ( <i>Helianthus annuus</i> L.) hybrids. <i>European Journal of Agronomy</i> , <b>2017</b> , 86, 60-70	5	5
320	Hemp ( <i>Cannabis sativa</i> L.) leaf photosynthesis in relation to nitrogen content and temperature: implications for hemp as a bio-economically sustainable crop. <b>2017</b> , 9, 1573-1587		28
319	Development of a critical nitrogen dilution curve based on leaf dry matter for summer maize. <i>Field Crops Research</i> , <b>2017</b> , 208, 60-68	5.5	30
318	Photosynthesis and biomass allocation of cotton as affected by deep-layer water and fertilizer application depth. <b>2017</b> , 55, 638-647		11
317	Relative importance of biological nitrogen fixation and mineral uptake in high yielding soybean cultivars. <b>2017</b> , 418, 191-203		26
316	Variation in seed nutrient content, seedling growth and yield of rice varieties grown in a paddy field without application of fertilisers for forty years. <b>2017</b> , 68, 337		5
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314	Comparison of different critical nitrogen dilution curves for nitrogen diagnosis in rice. <b>2017</b> , 7, 42679		33
313	Can increased leaf photosynthesis be converted into higher crop mass production? A simulation study for rice using the crop model GECROS. <i>Journal of Experimental Botany</i> , <b>2017</b> , 68, 2345-2360	7	50



312	Biological limits on nitrogen use for plant photosynthesis: a quantitative revision comparing cultivated and wild species. <b>2017</b> , 214, 120-131		29
311	How the use of nitrogen fertiliser may switch plant suitability for aphids: the case of <i>Miscanthus</i> , a promising biomass crop, and the aphid pest <i>Rhopalosiphum maidis</i> . <b>2017</b> , 73, 1648-1654		8
310	Effects of irrigation and addition of nitrogen fertiliser on net ecosystem carbon balance for a grassland. <b>2017</b> , 579, 1715-1725		26
309	A spatially hierarchical integration of close-range remote sensing, leaf structure and physiology assists in diagnosing spatiotemporal dimensions of field-scale ecosystem photosynthetic productivity. <b>2017</b> , 247, 503-519		5
308	Grain Yield and Nitrogen Accumulation in Maize Hybrids Released during 1934 to 2013 in the US Midwest. <i>Crop Science</i> , <b>2017</b> , 57, 1431-1446	2.4	42
307	Maize-grain legume intercropping for enhanced resource use efficiency and crop productivity in the Guinea savanna of northern Ghana. <i>Field Crops Research</i> , <b>2017</b> , 213, 38-50	5.5	78
306	An application of digital imagery analysis to understand the effect of N application on light interception, radiation use efficiency, and grain yield of maize under various agro-environments in Northern Mozambique. <b>2017</b> , 20, 12-23		3
305	Quantifying high temperature risks and their potential effects on sorghum production in Australia. <i>Field Crops Research</i> , <b>2017</b> , 211, 77-88	5.5	12
304	Nutrient partitioning and stoichiometry in soybean: A synthesis-analysis. <i>Field Crops Research</i> , <b>2017</b> , 200, 18-27	5.5	35
303	Water and radiation use efficiencies explain the effect of potassium on the productivity of cassava. <i>European Journal of Agronomy</i> , <b>2017</b> , 83, 28-39	5	17
302	Supplement understanding of the relative importance of biophysical factors in determination of photosynthetic capacity and photosynthetic productivity in rice ecosystems. <b>2017</b> , 232, 550-565		8
301	Harvest Index of Maize ( <i>Zea mays</i> L.): Are There Possibilities for Improvement?. <b>2017</b> , 37-82		28
300	Linking canopy reflectance to crop structure and photosynthesis to capture and interpret spatiotemporal dimensions of per-field photosynthetic productivity. <b>2017</b> , 14, 1315-1332		6
299	Living Mulch for Sustainable Maize Stover Biomass Harvest. <i>Crop Science</i> , <b>2017</b> , 57, 3273-3290	2.4	5
298	Effect of nitrogen regimes on narrowing the magnitude of maize yield penalty caused by high temperature stress in North China Plain. <b>2017</b> , 63, 131-138		5
297	Relationships between Ear-Leaf Nutrient Concentrations at Silking and Corn Biomass and Grain Yields at Maturity. <i>Agronomy Journal</i> , <b>2017</b> , 109, 2898-2906	2.2	16
296	Elevated CO <sub>2</sub> alters distribution of nodal leaf area and enhances nitrogen uptake contributing to yield increase of soybean cultivars grown in Mollisols. <b>2017</b> , 12, e0176688		6
295	Intercropping with wheat lowers nutrient uptake and biomass accumulation of maize, but increases photosynthetic rate of the ear leaf. <b>2018</b> , 10, ply010		14

294	Hydrologic reinforcement induced by contrasting woody species during summer and winter. <b>2018</b> , 427, 369-390		14
293	Modelling the dynamics of grapevine growth over years. <b>2018</b> , 369, 77-87		6
292	Refinement of a theoretical trait space for North American trees via environmental filtering. <b>2018</b> , 88, 372-384		2
291	Differential proteomic analysis of rice seedlings reveals the advantage of dry-raising nursery practices. <b>2018</b> , 84, 359-371		2
290	Modelling the nitrogen dynamics of maize crops âEnhancing the APSIM maize model. <i>European Journal of Agronomy</i> , <b>2018</b> , 100, 118-131	5	44
289	Reverse modelling to estimate yield losses caused by crop diseases. <b>2018</b> , 67, 1669-1679		6
288	Does biological nitrogen fixation modify soybean nitrogen dilution curves?. <i>Field Crops Research</i> , <b>2018</b> , 223, 171-178	5.5	11
287	Multidimensional trait space informed by a mechanistic model of tree growth and carbon allocation. <b>2018</b> , 9, e02060		3
286	Canopy height and N affect herbage accumulation and the relative contribution of leaf categories to photosynthesis of grazed brachiariagrass pastures. <b>2018</b> , 73, 183-192		15
285	Biochar improved nodulation and nitrogen metabolism of soybean under salt stress. <b>2018</b> , 74, 215-223		25
284	Physiological activity and biomass production in crop canopy under a tropical environment in soybean cultivars with temperate and tropical origins. <i>Field Crops Research</i> , <b>2018</b> , 216, 209-216	5.5	5
283	Analysis of coffee ( <i>Coffea arabica</i> L.) performance in relation to radiation levels and rates of nitrogen supply I. Vegetative growth, production and distribution of biomass and radiation use efficiency. <i>European Journal of Agronomy</i> , <b>2018</b> , 92, 115-122	5	6
282	Cluster and Principle Component Analysis of Soybean Grown at Various Row Spacings, Planting Dates and Plant Populations. <b>2018</b> , 3, 110-121		3
281	Monthly average daily diffuse solar radiation in Poland within the period 2005â2015. <b>2018</b> , 23, 00020		1
280	Biomass and Biogas Yield of Maize ( <i>Zea mays</i> L.) Grown under Artificial Shading. <b>2018</b> , 8, 178		11
279	The Evaluation of Radiation Use Efficiency and Leaf Area Index Development for the Estimation of Biomass Accumulation in Short Rotation Poplar and Annual Field Crops. <b>2018</b> , 9, 168		12
278	Chemical Weed Control in Paddy Fields Inoculated with <i>Azospirillum lipoferum</i> . <b>2018</b> , 36,		0
277	Analysis of the impact of carbon source-sink relationships on flowering patterns reveals that apple tree growth and functioning are determined by mechanisms occurring at the tree and shoot scales. <i>Acta Horticulturae</i> , <b>2018</b> , 405-412	0.3	1

276	Waterlogging of Winter Crops at Early and Late Stages: Impacts on Leaf Physiology, Growth and Yield. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 1863	6.2	56
275	Chapter 15: Nonlinear Regression Models and Applications. <b>2018</b> ,		0
274	Potato Breeding for Nitrogen-Use Efficiency: Constraints, Achievements, and Future Prospects. <b>2018</b> , 21, 269-281		4
273	Asymmetric Ridgeâ€urrow and Film Cover Improves Plant Morphological Traits and Light Utilization in Rain-Fed Maize. <b>2018</b> , 32, 829-838		4
272	Radiation interception, extinction coefficient and use efficiency of wheat crop at various irrigation and nitrogen levels in a semi-arid location. <b>2018</b> , 23, 416-425		16
271	Nitrogen balance in a stockless organic cropping system with different strategies for internal N cycling via residual biomass. <b>2018</b> , 112, 165-178		5
270	Physiological mechanisms underlying post-silking nitrogen use efficiency of high-yielding maize hybrids differing in nitrogen remobilization efficiency. <b>2018</b> , 181, 923-931		1
269	Leaf economics spectrum in rice: leaf anatomical, biochemical, and physiological trait trade-offs. <i>Journal of Experimental Botany</i> , <b>2018</b> , 69, 5599-5609	7	24
268	Evaluating Bioenergy Cropping Systems towards Productivity and Resource Use Efficiencies: An Analysis Based on Field Experiments and Simulation Modelling. <i>Agronomy</i> , <b>2018</b> , 8, 117	3.6	5
267	Silk Development and Kernel Set in Maize as Related to Nitrogen Stress. <i>Crop Science</i> , <b>2018</b> , 58, 2581-2592		14
266	Decreased wheat grain yield stimulation by free air CO2 enrichment under N deficiency is strongly related to decreased radiation use efficiency enhancement. <i>European Journal of Agronomy</i> , <b>2018</b> , 101, 38-48	5	13
265	Nonlinear Regression Models and Applications. <b>2018</b> , 401-447		1
264	Simulating daily field crop canopy photosynthesis: an integrated software package. <b>2018</b> , 45, 362-377		31
263	Photovoltaics and Nanotechnology as Alternative Energy. <b>2018</b> , 211-241		1
262	The Utilization of Nitrogen by Plants: A Whole Plant Perspective. <b>2018</b> , 305-351		6
261	Photosynthetic reaction, mineral uptake, and fruit quality of strawberry affected by different levels of macronutrients. <b>2018</b> , 41, 1807-1820		6
260	Co-optimization of axial root phenotypes for nitrogen and phosphorus acquisition in common bean. <b>2018</b> , 122, 485-499		44
259	Productivity and Water Use Efficiency of Sorghum [ <i>Sorghum bicolor</i> (L.) Moench] Grown under Different Nitrogen Applications in Sudan Savanna Zone, Nigeria. <b>2018</b> , 2018, 1-11		13

258	Quantitative Analysis of Cotton Canopy Size in Field Conditions Using a Consumer-Grade RGB-D Camera. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 2233	6.2	20
257	Photosynthetic Characteristics and Chloroplast Ultrastructure of Summer Maize Response to Different Nitrogen Supplies. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 576	6.2	25
256	A Review of Methods to Improve Nitrogen Use Efficiency in Agriculture. <i>Sustainability</i> , <b>2018</b> , 10, 51	3.6	92
255	Improving nitrogen use efficiency in plants: effective phenotyping in conjunction with agronomic and genetic approaches. <b>2018</b> , 45, 606-619		25
254	Potential of vegetation indices combined with laser-induced fluorescence parameters for monitoring leaf nitrogen content in paddy rice. <b>2018</b> , 13, e0191068		14
253	Exploring the optimum nitrogen partitioning to predict the acclimation of C3 leaf photosynthesis to varying growth conditions. <i>Journal of Experimental Botany</i> , <b>2019</b> , 70, 2435-2447	7	17
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251	Extension of a haplotype-based genomic prediction model to manage multi-environment wheat data using environmental covariates. <i>Theoretical and Applied Genetics</i> , <b>2019</b> , 132, 3143-3154	6	7
250	Photosynthesis in the solar corridor system. <b>2019</b> , 1-33		2
249	Radiation Use Efficiency of Forage Resources: A Meta-Analysis. <i>Agronomy Journal</i> , <b>2019</b> , 111, 1770-1778	2.2	3
248	Influence of plant density and growth habit of common bean on leaf area development and N accumulation. <b>2019</b> , 33, 620-632		3
247	A model-based approach to analyse genetic variation in potato using standard cultivars and a segregating population. II. Tuber bulking and resource use efficiency. <i>Field Crops Research</i> , <b>2019</b> , 242, 107582	5.5	4
246	Radiation Use Efficiency and Source-Sink Changes of Super Hybrid Rice under Shade Stress during Grain-Filling Stage. <i>Agronomy Journal</i> , <b>2019</b> , 111, 1788-1798	2.2	23
245	Growth Response and Productivity of Sorghum for Bioenergy Production in South Texas. <b>2019</b> , 62, 1207-1218		6
244	Photosynthesis and biomass accumulation in young sugarcane plants grown under increasing ammonium supply in nutrient solution. <b>2019</b> , 31, 401-411		6
243	VINESYM: an integrated vine and grapevine mathematical model for vegetative development and production quality forecast. <b>2019</b> , 13, 02005		
242	Increasing Photosynthesis: Unlikely Solution For World Food Problem. <b>2019</b> , 24, 1032-1039		45
241	Geospatial Assessment for Crop Physiological and Management Improvements with Examples Using the Simple Simulation Model. <i>Crop Science</i> , <b>2019</b> ,	2.4	2

240	Excessive nitrogen impairs hydraulics, limits photosynthesis, and alters the metabolic composition of almond trees. <b>2019</b> , 143, 265-274		16
239	Genetic variation of phenotypic plasticity in Bangladesh rice germplasm. <i>Field Crops Research</i> , <b>2019</b> , 243, 107618	5.5	
238	High Nitrogen Availability Limits Photosynthesis and Compromises Carbohydrate Allocation to Storage in Roots of Crantz. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1041	6.2	9
237	The above-ground competition between common bean ( <i>Phaseolus vulgaris</i> L.) and barnyardgrass ( <i>Echinochloa crus-galli</i> L.) affected by nitrogen application. <b>2019</b> , 47, 451-460		5
236	Phenotypic plasticity of maize grain yield and related secondary traits: Differences between inbreds and hybrids in response to contrasting water and nitrogen regimes. <i>Field Crops Research</i> , <b>2019</b> , 239, 19-29	5.5	6
235	Narrow-wide-row planting pattern increases the radiation use efficiency and seed yield of intercrop species in relay-intercropping system. <b>2019</b> , 8, e170		29
234	Phosphorus Enriched Organic Amendments can Increase Nitrogen Use Efficiency in Wheat. <b>2019</b> , 50, 1178-1191		10
233	A generic approach to modelling, allocation and redistribution of biomass to and from plant organs. <i>In Silico Plants</i> , <b>2019</b> , 1,	3.2	7
232	Improving water use efficiency, nitrogen use efficiency, and radiation use efficiency in field crops under drought stress: A review. <b>2019</b> , 156, 109-157		55
231	Evaluation of Quantitative and Qualitative Characteristics of Strawberry in Response to Bio- and Chemical Fertilizers. <b>2019</b> , 71, 103-111		4
230	Effect of Dense Planting of Hybrid Rice on Grain Yield and Solar Radiation Use in Southeastern China. <i>Agronomy Journal</i> , <b>2019</b> , 111, 1229-1238	2.2	12
229	Improving process-based crop models to better capture genotype × environment × management interactions. <i>Journal of Experimental Botany</i> , <b>2019</b> , 70, 2389-2401	7	26
228	Crop Radiation Capture and Use Efficiency. <b>2019</b> , 73-106		1
227	Crop Responses to Nitrogen. <b>2019</b> , 159-184		1
226	Allometric approach to crop nutrition and implications for crop diagnosis and phenotyping. A review. <b>2019</b> , 39, 1		31
225	Quantifying impacts of enhancing photosynthesis on crop yield. <b>2019</b> , 5, 380-388		125
224	Crop growth rate and the establishment of sink size: a comparison of maize and soybean. <b>2019</b> , 33, 346-362		9
223	Field crop phenomics: enabling breeding for radiation use efficiency and biomass in cereal crops. <b>2019</b> , 223, 1714-1727		77

222	Vertical distributions of chlorophyll and nitrogen and their associations with photosynthesis under drought and rewatering regimes in a maize field. <b>2019</b> , 272-273, 40-54		24
221	Development of software for plant leaf area estimation. <b>2019</b> , 390, 012029		1
220	Simulating Soybean Yield Potential under Optimum Management. <b>2019</b> , 2, 1-7		2
219	High Temperatures During the Seed-Filling Period Decrease Seed Nitrogen Amount in Pea ( L.): Evidence For a Sink Limitation. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1608	6.2	5
218	A Growth Model to Estimate Shoot Weights and Leaf Numbers in Tea. <i>Agronomy Journal</i> , <b>2019</b> , 111, 2255-2262		
217	Seasonal responses of photosynthetic parameters in maize and sunflower and their relationship with leaf functional traits. <i>Plant, Cell and Environment</i> , <b>2019</b> , 42, 1561-1574	8.4	16
216	Light-use efficiency and energy partitioning in rice is cultivar dependent. <b>2019</b> , 140, 51-63		5
215	Yield components of lucerne were affected by sowing dates and inoculation treatments. <i>European Journal of Agronomy</i> , <b>2019</b> , 103, 1-12	5	3
214	The partitioning of gross primary production for young Eucalyptus tereticornis trees under experimental warming and altered water availability. <b>2019</b> , 222, 1298-1312		21
213	Growth, N uptake and N critical dilution curve in broccoli cultivars grown under Mediterranean conditions. <b>2019</b> , 244, 109-121		12
212	Evaluation of linear discriminant and support vector machine classifiers for classification of nitrogen status in mature oil palm from SPOT-6 satellite images: analysis of raw spectral bands and spectral indices. <b>2019</b> , 34, 735-749		4
211	The Shifting Role of mRUE for Regulating Ecosystem Production. <b>2020</b> , 23, 359-369		2
210	Integration of renewable energy systems for multigeneration. <b>2020</b> , 287-402		4
209	Integrating the dynamics of yield traits in rice in response to environmental changes. <i>Journal of Experimental Botany</i> , <b>2020</b> , 71, 490-506	7	20
208	Maize radiation use-efficiency response to optimally distributed foliar-nitrogen-content depends on canopy leaf-area index. <i>Field Crops Research</i> , <b>2020</b> , 247, 107557	5.5	11
207	Effects of the integration of mixed-cropping and rice-duck co-culture on rice yield and soil nutrients in southern China. <b>2020</b> , 100, 277-286		7
206	Two novel quantitative trait loci affecting the variation in leaf photosynthetic capacity among soybeans. <b>2020</b> , 291, 110300		4
205	Water and radiation use efficiencies in maize: Breeding effects on single-cross Argentine hybrids released between 1980 and 2012. <i>Field Crops Research</i> , <b>2020</b> , 246, 107683	5.5	21

204	Effects of nitrogen enrichment on tree carbon allocation: A global synthesis. <b>2020</b> , 29, 573-589		24
203	Validation of an Enzyme-Driven Model Explaining Photosynthetic Rate Responses to Limited Nitrogen in Crop Plants. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 533341	6.2	3
202	Sweet corn nitrogen accumulation, leaf photosynthesis rate, and radiation use efficiency under variable nitrogen fertility and irrigation. <i>Field Crops Research</i> , <b>2020</b> , 257, 107913	5.5	7
201	A Mini-Review on Overcoming a Calorie-Centric World of Monolithic Annual Crops. <b>2020</b> , 4,		0
200	Is Tillage a Suitable Option for Weed Management in Conservation Agriculture?. <i>Agronomy</i> , <b>2020</b> , 10, 1746	3.6	5
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