Etsushi Kumagai

List of Publications by Year
in descending order

37	690	567144 15	580701 25
papers	citations	h-index	g-index

37	37	37	830
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The effects of increased temperature on crop growth and yield of soybean grown in a temperature gradient chamber. Field Crops Research, 2013, 154, 74-81.	2.3	77
2	Correlation of Chlorophyll Meter Readings with Gas exchange and Chlorophyll Fluorescence in Flag Leaves of Rice (Oryza sativaL.) Plants. Plant Production Science, 2009, 12, 50-53.	0.9	60
3	Genotypic differences in soybean yield responses to increasing temperature in a cool climate are related to maturity group. Agricultural and Forest Meteorology, 2014, 198-199, 265-272.	1.9	51
4	Ammonia emission from rice leaves in relation to photorespiration and genotypic differences in glutamine synthetase activity. Annals of Botany, 2011, 108, 1381-1386.	1.4	49
5	Genomeâ€wide association mapping for phenotypic plasticity in rice. Plant, Cell and Environment, 2017, 40, 1565-1575.	2.8	45
6	Quantifying highâ€temperature stress on soybean canopy photosynthesis: The unique role of sunâ€induced chlorophyll fluorescence. Global Change Biology, 2021, 27, 2403-2415.	4.2	36
7	The response of soybean seed growth characteristics to increased temperature under near-field conditions in a temperature gradient chamber. Field Crops Research, 2012, 131, 26-31.	2.3	35
8	Phenotypic plasticity conditions the response of soybean seed yield to elevated atmospheric CO2 concentration. Plant Physiology, 2015, 169, pp.00980.2015.	2.3	32
9	Characteristics of Gas Exchange and Chlorophyll Fluorescence during Senescence of Flag Leaf in Different Rice (Oryza sativaL.) Cultivars Grown under Nitrogen-Deficient Condition. Plant Production Science, 2009, 12, 285-292.	0.9	26
10	Dorsoventral asymmetry of photosynthesis and photoinhibition in flag leaves of two rice cultivars that differ in nitrogen response and leaf angle. Physiologia Plantarum, 2014, 151, 533-543.	2.6	26
11	Soybean (Glycine max (L.) Merr.) Yield Reduction due to Late Sowing as a Function of Radiation Interception and Use in a Cool Region of Northern Japan. Agronomy, 2020, 10, 66.	1.3	24
12	Genetic Variations in Dry Matter Production, Nitrogen Uptake, and Nitrogen Use Efficiency in the AA Genome Oryza Species Grown under Different Nitrogen Conditions. Plant Production Science, 2013, 16, 107-116.	0.9	21
13	Predicting biochemical acclimation of leaf photosynthesis in soybean under inâ€field canopy warming using hyperspectral reflectance. Plant, Cell and Environment, 2022, 45, 80-94.	2.8	19
14	Effect of nitrogen-deficiency on midday photoinhibition in flag leaves of different rice (Oryza sativa) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.9	17
15	Planting geometry as a preâ€screening technique for identifying <scp>CO₂</scp> responsive rice genotypes: a case study of panicle number. Physiologia Plantarum, 2014, 152, 520-528.	2.6	16
16	Comparison of Susceptibility to Photoinhibition and Energy Partitioning of Absorbed Light in Photosystem II in Flag Leaves of Two Rice (Oryza sativaL.) Cultivars that Differ in Their Responses to Nitrogen-Deficiency. Plant Production Science, 2010, 13, 11-20.	0.9	14
17	Finlayâ€“Wilkinson's regression coefficient as a preâ€screening criterion for yield responsiveness to elevated atmospheric <scp>CO₂</scp> concentration in crops. Physiologia Plantarum, 2016, 158, 312-317.	2.6	13
18	Effects of elevated CO2 concentration on growth and photosynthesis of Chinese yam under different temperature regimes. Plant Production Science, 2017, 20, 227-236.	0.9	13

#	Article	IF	Citations
19	Effects of elevated CO₂ concentration on bulbil germination and early seedling growth in Chinese yam under different air temperatures. Plant Production Science, 2017, 20, 313-322.	0.9	13
20	Effect of early sowing on growth and yield of determinate and indeterminate soybean (<I>Glycine) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 18-28.	0.8	12
21	Leaf Photosynthesis and Its Genetic Improvement from the Perspective of Energy Flow and CO₂Diffusion. Plant Production Science, 2014, 17, 111-123.	0.9	11
22	Modeling of Phenological Development Stages and Impact of Elevated Air Temperature on the Phenological Development of Soybean Cultivars in Japan. Japanese Journal of Crop Science, 2015, 84, 408-417.	0.1	10
23	Conversion of soil particle size distribution and texture classification from ISSS system to FAO/USDA system in Japanese paddy soils. Soil Science and Plant Nutrition, 2020, 66, 407-414.	0.8	10
24	High-throughput characterization, correlation, and mapping of leaf photosynthetic and functional traits in the soybean (Glycine max) nested association mapping population. Genetics, 2022, , .	1.2	8
25	Effects of elevated CO2 concentration and temperature on seed production and nitrogen concentration in soybean (Glycine max (L.) Merr.). J Agricultural Meteorology, 2012, 68, 1-13.	0.8	7
26	Effects of elevated atmospheric CO2 concentration on morphology of leaf blades in Chinese yam. Plant Production Science, 2018, 21, 311-321.	0.9	7
27	Experimental open-field day-length-extension method and estimation of the effective light period using solar altitude. J Agricultural Meteorology, 2011, 67, 307-312.	0.8	6
28	Ammonia Emission from Leaves of Different Rice (Oryza sativaL.) Cultivars. Plant Production Science, 2011, 14, 249-253.	0.9	5
29	Probabilistic Risk Assessment of the Rice Cropping Schedule for Central Hokkaido, Japan. Journal of Applied Meteorology and Climatology, 2012, 51, 1253-1264.	0.6	5
30	Is the yield change due to warming affected by photoperiod sensitivity? Effects of the soybean E4 locus. Food and Energy Security, 2020, 9, e186.	2.0	5
31	Agronomic responses of soybean cultivars to narrow intra-row spacing in a cool region of northern Japan. Plant Production Science, 2021, 24, 29-40.	0.9	5
32	Assessment of paddy rice heading date under projected climate change conditions for Hokkaido region based on the field experiment. J Agricultural Meteorology, 2011, 67, 275-284.	0.8	5
33	Dry matter partitioning to leaves differentiates African and Asian rice genotypes exposed to elevated CO₂. Journal of Agronomy and Crop Science, 2021, 207, 120-127.	1.7	2
34	Relationship between Soybean Yield and Drought in Long-term Continuous Performance Test at Tohoku Agricultural Research Center, NARO. Japanese Journal of Crop Science, 2018, 87, 233-241.	0.1	2
35	A strong negative trade-off between seed number and 100-seed weight stalls genetic yield gains in northern Japanese soybean cultivars in comparison with Midwestern US cultivars. Field Crops Research, 2022, 283, 108539.	2.3	2
36	Effects of elevated atmospheric CO2 concentration on growth and photosynthesis in eddo at two different air temperatures. Plant Production Science, 2021, 24, 363-373.	0.9	1

#	Article	IF	Citations
37	Interactive Effects of Soil Salinity and Temperature on Vegetative Growth of Rice after Flooded by TSUNAMI 11 March 2011. Japanese Journal of Crop Science, 2012, 81, 441-448.	0.1	0