Koki Homma

List of Publications by Year
in descending order

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		361296	243529
73	2,131	20	44
papers	citations	h-index	g-index

73	73	73	2458
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biochar amendment techniques for upland rice production in Northern Laos. Field Crops Research, 2009, 111, 81-84.	2.3	795
2	Can Yields of Lowland Rice Resume the Increases that They Showed in the 1980s?. Plant Production Science, 2005, 8, 259-274.	0.9	156
3	Genotypic Variation of Stomatal Conductance in Relation to Stomatal Density and Length in Rice (Oryza sativaL.). Plant Production Science, 2007, 10, 322-328.	0.9	89
4	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
5	Soil management: The key factors for higher productivity in the fields utilizing the system of rice intensification (SRI) in the central highland of Madagascar. Agricultural Systems, 2009, 100, 61-71.	3.2	72
6	Delay of heading date as an index of water stress in rainfed rice in mini-watersheds in Northeast Thailand. Field Crops Research, 2004, 88, 11-19.	2.3	61
7	Toposequential Variation in Soil Fertility and Rice Productivity of Rainfed Lowland Paddy Fields in Mini-Watershed(Nong)in Northeast Thailand. Plant Production Science, 2003, 6, 147-153.	0.9	59
8	Nitrogen management and cultivar effects on rice yield and nitrogen use efficiency in Northeast Thailand. Field Crops Research, 1999, 64, 109-120.	2.3	58
9	Evaluation of genotypic variation in leaf photosynthetic rate and its associated factors by using rice diversity research set of germplasm. Photosynthesis Research, 2007, 94, 23-30.	1.6	49
10	Simulation of Reflectance and Vegetation Indices for Unmanned Aerial Vehicle (UAV) Monitoring of Paddy Fields. Remote Sensing, 2019, 11, 2119.	1.8	39
11	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
12	Estimation of rice yield by SIMRIW-RS, a model that integrates remote sensing data into a crop growth model. J Agricultural Meteorology, 2017, 73, 2-8.	0.8	35
13	Change of Weather Condition and its Effect on Rice Production during the Past 40 Years in Japan. Japanese Journal of Crop Science, 2007, 76, 423-432.	0.1	30
14	Response of Leaf Photosynthesis to Vapor Pressure Difference in Rice (Oryza sativaL) Varieties in Relation to Stomatal and Leaf Internal Conductance. Plant Production Science, 2008, 11, 184-191.	0.9	29
15	Diurnal and Developmental Changes in Energy Allocation of Absorbed Light at PSII in Field-Grown Rice. Plant and Cell Physiology, 2014, 55, 171-182.	1.5	24
16	Grain yield and phosphorus uptake of rainfed lowland rice under unsubmerged soil stress. Field Crops Research, 2016, 190, 54-59.	2.3	24
17	Empirical Regression Models for Estimating Multiyear Leaf Area Index of Rice from Several Vegetation Indices at the Field Scale. Remote Sensing, 2014, 6, 4764-4779.	1.8	23
18	Yield response of indica and tropical japonica genotypes to soil fertility conditions under rainfed uplands in northern Laos. Field Crops Research, 2009, 112, 141-148.	2.3	22

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19	Erect panicle super rice varieties enhance yield by harvest index advantages in high nitrogen and density conditions. Journal of Integrative Agriculture, 2017, 16, 1467-1473.	1.7	22
20	The effects of cross-tolerance to oxidative stress and drought stress on rice dry matter production under aerobic conditions. Field Crops Research, 2014, 163, 18-23.	2.3	21
21	Evaluation of Transplanting Date and Nitrogen Fertilizer Rate Adapted by Farmers to Toposequential Variation ofEnvironmental Resources in a Mini-Watershed (Nong) in Northeast Thailand. Plant Production Science, 2007, 10, 488-496.	0.9	20
22	Rice-Planted Area Mapping Using Small Sets of Multi-Temporal SAR Data. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1507-1511.	1.4	19
23	Parameterization of the vertical distribution of leaf area index (LAI) in rice (Oryza sativa L.) using a plant canopy analyzer. Scientific Reports, 2018, 8, 6387.	1.6	18
24	Increased productivity of rainfed lowland rice by incorporation of pond sediments in Northeast Thailand. Field Crops Research, 2006, 96, 422-427.	2.3	17
25	Parameterization of leaf growth in rice (Oryza sativa L.) utilizing a plant canopy analyzer. Field Crops Research, 2016, 186, 117-123.	2.3	17
26	Root growth response of rainfed lowland rice to aerobic conditions in northeastern Thailand. Plant and Soil, 2013, 368, 557-567.	1.8	16
27	Development of a rice simulation model for remote-sensing (SIMRIW-RS). J Agricultural Meteorology, 2017, 73, 9-15.	0.8	16
28	Energy Budget and Transpiration Characteristics of Rice Grown under Elevated CO2 and High Temperature Conditions as Determined by Remotely Sensed Canopy Temperatures.. Japanese Journal of Crop Science, 1999, 68, 137-145.	0.1	15
29	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
30	Plant development and yield components under a tropical environment in soybean cultivars with temperate and tropical origins. Plant Production Science, 2017, 20, 375-383.	0.9	13
31	Rice Responses to Elevated CO2 Concentrations and High Temperatures. J Agricultural Meteorology, 1997, 52, 797-800.	0.8	12
32	Genotypic Diversity of Cross-Tolerance to Oxidative and Drought Stresses in Rice Seedlings Evaluated by the Maximum Quantum Yield of Photosystem II and Membrane Stability. Plant Production Science, 2013, 16, 295-304.	0.9	11
33	Leaf Photosynthesis and Its Genetic Improvement from the Perspective of Energy Flow and CO₂Diffusion. Plant Production Science, 2014, 17, 111-123.	0.9	11
34	Applicability of synthetic aperture radar (SAR) to evaluate leaf area index (LAI) and its growth rate of rice in farmersâ€™ fields in Lao PDR. Field Crops Research, 2015, 176, 119-122.	2.3	11
35	Genotypic variation in salinity tolerance and its association with nodulation and nitrogen uptake in soybean. Plant Production Science, 2017, 20, 490-498.	0.9	11
36	Relay-Intercropping of Stylosanthes guianensis in Rainfed Lowland Rice Ecosystem in Northeast Thailand. Plant Production Science, 2008, 11, 385-392.	0.9	10

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37	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
38	Quantification of Changes in Rice Production for 2003â€“2019 with MODIS LAI Data in Pursat Province, Cambodia. Remote Sensing, 2021, 13, 1971.	1.8	10
39	Land Equivalent Ratio of Groundnut-Fingermillet Intercrops as Affected by Plant Combination Ratio, and Nitrogen and Water Availability. Plant Production Science, 1998, 1, 39-46.	0.9	9
40	Estimation of Crop Radiation Use Efficiency. Japanese Journal of Crop Science, 2011, 80, 360-364.	0.1	9
41	Evaluation of the effects of increasing temperature on the transpiration rate and canopy conductance of soybean by using the sap flow method. J Agricultural Meteorology, 2015, 71, 98-105.	0.8	9
42	Evaluation of the dynamics of the leaf area index (LAI) of rice in farmer's fields in Vientiane Province, Lao PDR. J Agricultural Meteorology, 2017, 73, 16-21.	0.8	9
43	Impacts of the continuous maize cultivation on soil properties in Sainyabuli province, Laos. Scientific Reports, 2020, 10, 11231.	1.6	9
44	Satellite-Based Drought Impact Assessment on Rice Yield in Thailand with SIMRIWâˆ’RS. Remote Sensing, 2020, 12, 2099.	1.8	9
45	Modeling leaf area development in soybean (Glycine max L.) based on the branch growth and leaf elongation. Plant Production Science, 2020, 23, 247-259.	0.9	8
46	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
47	Evaluation of cultivation environment and management based on LAI measurement in farmersâ€™ paddy fields in Pursat province, Cambodia. Field Crops Research, 2016, 199, 150-155.	2.3	7
48	Regulation of root-to-leaf Na and Cl transport and its association with photosynthetic activity in salt-tolerant soybean genotypes. Plant Production Science, 2019, 22, 262-274.	0.9	7
49	Effect of flag leaf length of erect panicle rice on the canopy structure and biomass production after heading. Plant Production Science, 2022, 25, 1-10.	0.9	7
50	Response of the leaf photosynthetic rate to available nitrogen in erect panicle-type rice (Oryza sativa) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.9	6
51	Quantitative Evaluation of Spatial Distribution of Nitrogen Loading in the Citarum River Basin, Indonesia. J Agricultural Meteorology, 2017, 73, 31-44.	0.8	6
52	The Long-Term Changes in Midday Photoinhibition in Rice (Oryza sativaL.) Growing under Fluctuating Soil Water Conditions. Plant Production Science, 2013, 16, 287-294.	0.9	5
53	Chemical and cultural control of <scp>Ipomoea hederacea var. integriuscula</scp> in narrowâ€row soybean in southwestern Japan. Weed Biology and Management, 2021, 21, 135-145.	0.6	5
54	The effects of soil drying and rewetting on rice growth in lowland aquatic Ferralsols in the southeastern forest region of Madagascar. Plant and Soil, 2010, 333, 219-232.	1.8	4

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55	Continuous estimation of rice (Oryza sativa (L.)) canopy transpiration realized by modifying the heat balance model. Biosystems Engineering, 2021, 204, 294-303.	1.9	4
56	A leaf areaâ€based nonâ€destructive approach to predict rice productivity. Agronomy Journal, 2021, 113, 3922.	0.9	4
57	Land-Use Strategies of Farmers in Responding to Rising Land-Use Pressures in the Southeastern Forest Region of Madagascar: A Comparative Study between Lowland Households and Hillside Households. Japan Agricultural Research Quarterly, 2012, 46, 249-256.	0.1	4
58	Evaluation of Water Stress in Soybean Based on the Difference in Canopy Temperature between Soybean and Rice. Japanese Journal of Crop Science, 2009, 78, 387-394.	0.1	3
59	Nutrient Deficiency in the Rice-Stylo (Stylosanthes guianensis) Relay-Intercropping System in Rainfed Lowland Rice Ecosystem in Northeast Thailand. Plant Production Science, 2009, 12, 390-393.	0.9	3
60	Genotypic variation of photosystem II photoinhibition and energy partitioning in relation to photosynthetic adaptability to mild soil water deficiency of rice cultivation in northeast Thailand. Field Crops Research, 2013, 144, 154-161.	2.3	3
61	DEVELOPMENT OF A COUPLED MODEL OF A DISTRIBUTED HYDROLOGICAL MODEL AND A RICE GROWTH MODEL FOR GRASPING NECESSARY HYDRO-METEOROLOGICAL INFORMATION FOR RAIN-FED AGRICULTURE. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2013, 69, I_511-I_516.	0.0	3
62	Analyzing soil-available phosphorus by the Mehlich-3 extraction method to recommend a phosphorus fertilizer application rate for maize production in northern Mozambique. Plant Production Science, 2019, 22, 211-214.	0.9	3
63	Modeling biomass and yield production based on nitrogen accumulation in soybean grown in upland fields converted from paddy fields in Japan. Plant Production Science, 2021, 24, 440-453.	0.9	3
64	Variability of Rice Production in Monsoon Asia. Open Agriculture Journal, 2014, 8, 28-34.	0.3	3
65	Decadal and Monthly Change of an Empirical Coefficient in the Relation between Solar Radiation and the Daily Range of Temperature in Japan: Implications for the Estimation of Solar Radiation Based on Temperature. Plant Production Science, 2014, 17, 333-341.	0.9	2
66	A decision-making model for rice paddy cropping in an urbanizing area of the Lao PDR. Paddy and Water Environment, 2015, 13, 487-493.	1.0	2
67	Water and Food Security under Climate Change in Cambodia. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2014, 12, Tn_31-Tn_39.	0.1	2
68	Relationship between storage period and germination of Ipomoea hederacea var. integriuscula seeds under natural condition. Weed Biology and Management, 2021, 21, 183-191.	0.6	2
69	Application of consecutive polyethylene glycol treatments for modeling the seminal root growth of rice under water stress. Scientific Reports, 2022, 12, 2096.	1.6	2
70	Detection of rice-planted area using multi-temporal ALOS/PALSAR data. , 2012, , .		1
71	Usefulness of the World Surface Data Arranged by Japan Meteorological Agency. Japanese Journal of Crop Science, 2007, 76, 464-467.	0.1	1
72	A TRIAL IMPACT ASSESSMENT ON RICE PRODUCTION BY CLIMATE CHANGE AND IRRIGATION AT THE GRANARY OF WESTERN CAMBODIA. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2014, 70, I_265-I_270.	0.0	0

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73	Adaptability of High-Yielding Rice Cultivars in Relation to Biomass Productivity under Moderately Water Stressed Upland Conditions. Agricultural Sciences, 2015, 06, 352-364.	0.2	0