

# Koki Homma

## List of Publications by Year in descending order

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73  
papers

2,131  
citations

361296  
20  
h-index

243529  
44  
g-index

73  
all docs

73  
docs citations

73  
times ranked

2458  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of flag leaf length of erect panicle rice on the canopy structure and biomass production after heading. <i>Plant Production Science</i> , 2022, 25, 1-10.	0.9	7
2	Application of consecutive polyethylene glycol treatments for modeling the seminal root growth of rice under water stress. <i>Scientific Reports</i> , 2022, 12, 2096.	1.6	2
3	Modeling biomass and yield production based on nitrogen accumulation in soybean grown in upland fields converted from paddy fields in Japan. <i>Plant Production Science</i> , 2021, 24, 440-453.	0.9	3
4	Continuous estimation of rice ( <i>Oryza sativa</i> (L.)) canopy transpiration realized by modifying the heat balance model. <i>Biosystems Engineering</i> , 2021, 204, 294-303.	1.9	4
5	Quantification of Changes in Rice Production for 2003–2019 with MODIS LAI Data in Pursat Province, Cambodia. <i>Remote Sensing</i> , 2021, 13, 1971.	1.8	10
6	Chemical and cultural control of <i>Ipomoea hederacea</i> var. <i>integriuscula</i> in narrow-row soybean in southwestern Japan. <i>Weed Biology and Management</i> , 2021, 21, 135-145.	0.6	5
7	A leaf area-based non-destructive approach to predict rice productivity. <i>Agronomy Journal</i> , 2021, 113, 3922.	0.9	4
8	Relationship between storage period and germination of <i>Ipomoea hederacea</i> var. <i>integriuscula</i> seeds under natural condition. <i>Weed Biology and Management</i> , 2021, 21, 183-191.	0.6	2
9	Impacts of the continuous maize cultivation on soil properties in Sainyabuli province, Laos. <i>Scientific Reports</i> , 2020, 10, 11231.	1.6	9
10	Satellite-Based Drought Impact Assessment on Rice Yield in Thailand with SIMRIW-RS. <i>Remote Sensing</i> , 2020, 12, 2099.	1.8	9
11	Modeling leaf area development in soybean ( <i>Glycine max</i> L.) based on the branch growth and leaf elongation. <i>Plant Production Science</i> , 2020, 23, 247-259.	0.9	8
12	Analyzing soil-available phosphorus by the Mehlich-3 extraction method to recommend a phosphorus fertilizer application rate for maize production in northern Mozambique. <i>Plant Production Science</i> , 2019, 22, 211-214.	0.9	3
13	Simulation of Reflectance and Vegetation Indices for Unmanned Aerial Vehicle (UAV) Monitoring of Paddy Fields. <i>Remote Sensing</i> , 2019, 11, 2119.	1.8	39
14	Regulation of root-to-leaf Na and Cl transport and its association with photosynthetic activity in salt-tolerant soybean genotypes. <i>Plant Production Science</i> , 2019, 22, 262-274.	0.9	7
15	Parameterization of the vertical distribution of leaf area index (LAI) in rice ( <i>Oryza sativa</i> L.) using a plant canopy analyzer. <i>Scientific Reports</i> , 2018, 8, 6387.	1.6	18
16	Erect panicle super rice varieties enhance yield by harvest index advantages in high nitrogen and density conditions. <i>Journal of Integrative Agriculture</i> , 2017, 16, 1467-1473.	1.7	22
17	Plant development and yield components under a tropical environment in soybean cultivars with temperate and tropical origins. <i>Plant Production Science</i> , 2017, 20, 375-383.	0.9	13
18	Genotypic variation in salinity tolerance and its association with nodulation and nitrogen uptake in soybean. <i>Plant Production Science</i> , 2017, 20, 490-498.	0.9	11

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19	Quantitative Evaluation of Spatial Distribution of Nitrogen Loading in the Citarum River Basin, Indonesia. <i>J Agricultural Meteorology</i> , 2017, 73, 31-44.	0.8	6
20	Evaluation of the dynamics of the leaf area index (LAI) of rice in farmer's fields in Vientiane Province, Lao PDR. <i>J Agricultural Meteorology</i> , 2017, 73, 16-21.	0.8	9
21	Development of a rice simulation model for remote-sensing (SIMRIW-RS). <i>J Agricultural Meteorology</i> , 2017, 73, 9-15.	0.8	16
22	Estimation of rice yield by SIMRIW-RS, a model that integrates remote sensing data into a crop growth model. <i>J Agricultural Meteorology</i> , 2017, 73, 2-8.	0.8	35
23	Finlay's Wilkinson's regression coefficient as a screening criterion for yield responsiveness to elevated atmospheric CO <sub>2</sub> concentration in crops. <i>Physiologia Plantarum</i> , 2016, 158, 312-317.	2.6	13
24	Evaluation of cultivation environment and management based on LAI measurement in farmers' paddy fields in Pursat province, Cambodia. <i>Field Crops Research</i> , 2016, 199, 150-155.	2.3	7
25	Response of the leaf photosynthetic rate to available nitrogen in erect panicle-type rice ( <i>Oryza sativa</i> ) Tj ETQq1 1 0,784314 rgBT /Over	0,9	8
26	Grain yield and phosphorus uptake of rainfed lowland rice under unsubmerged soil stress. <i>Field Crops Research</i> , 2016, 190, 54-59.	2.3	24
27	Parameterization of leaf growth in rice ( <i>Oryza sativa</i> L.) utilizing a plant canopy analyzer. <i>Field Crops Research</i> , 2016, 186, 117-123.	2.3	17
28	Modeling of Phenological Development Stages and Impact of Elevated Air Temperature on the Phenological Development of Soybean Cultivars in Japan. <i>Japanese Journal of Crop Science</i> , 2015, 84, 408-417.	0.1	10
29	Evaluation of the effects of increasing temperature on the transpiration rate and canopy conductance of soybean by using the sap flow method. <i>J Agricultural Meteorology</i> , 2015, 71, 98-105.	0.8	9
30	A decision-making model for rice paddy cropping in an urbanizing area of the Lao PDR. <i>Paddy and Water Environment</i> , 2015, 13, 487-493.	1.0	2
31	Applicability of synthetic aperture radar (SAR) to evaluate leaf area index (LAI) and its growth rate of rice in farmers' fields in Lao PDR. <i>Field Crops Research</i> , 2015, 176, 119-122.	2.3	11
32	Adaptability of High-Yielding Rice Cultivars in Relation to Biomass Productivity under Moderately Water Stressed Upland Conditions. <i>Agricultural Sciences</i> , 2015, 06, 352-364.	0.2	0
33	Empirical Regression Models for Estimating Multiyear Leaf Area Index of Rice from Several Vegetation Indices at the Field Scale. <i>Remote Sensing</i> , 2014, 6, 4764-4779.	1.8	23
34	Leaf Photosynthesis and Its Genetic Improvement from the Perspective of Energy Flow and CO <sub>2</sub> Diffusion. <i>Plant Production Science</i> , 2014, 17, 111-123.	0.9	11
35	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. <i>Plant Production Science</i> , 2014, 17, 333-341.	0.9	2
36	The effects of cross-tolerance to oxidative stress and drought stress on rice dry matter production under aerobic conditions. <i>Field Crops Research</i> , 2014, 163, 18-23.	2.3	21

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37	Diurnal and Developmental Changes in Energy Allocation of Absorbed Light at PSII in Field-Grown Rice. <i>Plant and Cell Physiology</i> , 2014, 55, 171-182.	1.5	24
38	A TRIAL IMPACT ASSESSMENT ON RICE PRODUCTION BY CLIMATE CHANGE AND IRRIGATION AT THE GRANARY OF WESTERN CAMBODIA. <i>Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering)</i> , 2014, 70, I_265-I_270.	0.0	0
39	Water and Food Security under Climate Change in Cambodia. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2014, 12, Tn_31-Tn_39.	0.1	2
40	Variability of Rice Production in Monsoon Asia. <i>Open Agriculture Journal</i> , 2014, 8, 28-34.	0.3	3
41	Root growth response of rainfed lowland rice to aerobic conditions in northeastern Thailand. <i>Plant and Soil</i> , 2013, 368, 557-567.	1.8	16
42	Rice-Planted Area Mapping Using Small Sets of Multi-Temporal SAR Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2013, 10, 1507-1511.	1.4	19
43	The effects of increased temperature on crop growth and yield of soybean grown in a temperature gradient chamber. <i>Field Crops Research</i> , 2013, 154, 74-81.	2.3	77
44	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. <i>Field Crops Research</i> , 2013, 144, 154-161.	2.3	3
45	The Long-Term Changes in Midday Photoinhibition in Rice ( <i>Oryza sativa</i> L.) Growing under Fluctuating Soil Water Conditions. <i>Plant Production Science</i> , 2013, 16, 287-294.	0.9	5
46	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. <i>Plant Production Science</i> , 2013, 16, 295-304.	0.9	11
47	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. <i>Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering)</i> , 2013, 69, I_511-I_516.	0.0	3
48	Detection of rice-planted area using multi-temporal ALOS/PALSAR data. , 2012, , .		1
49	Effects of elevated CO2 concentration and temperature on seed production and nitrogen concentration in soybean ( <i>Glycine max</i> (L.) Merr.). <i>J Agricultural Meteorology</i> , 2012, 68, 1-13.	0.8	7
50	The response of soybean seed growth characteristics to increased temperature under near-field conditions in a temperature gradient chamber. <i>Field Crops Research</i> , 2012, 131, 26-31.	2.3	35
51	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. <i>Japan Agricultural Research Quarterly</i> , 2012, 46, 249-256.	0.1	4
52	Estimation of Crop Radiation Use Efficiency. <i>Japanese Journal of Crop Science</i> , 2011, 80, 360-364.	0.1	9
53	The effects of soil drying and rewetting on rice growth in lowland aquatic Ferralsols in the southeastern forest region of Madagascar. <i>Plant and Soil</i> , 2010, 333, 219-232.	1.8	4
54	Evaluation of Water Stress in Soybean Based on the Difference in Canopy Temperature between Soybean and Rice. <i>Japanese Journal of Crop Science</i> , 2009, 78, 387-394.	0.1	3

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55	Nutrient Deficiency in the Rice-Stylo ( <i>Stylosanthes guianensis</i> ) Relay-Intercropping System in Rainfed Lowland Rice Ecosystem in Northeast Thailand. <i>Plant Production Science</i> , 2009, 12, 390-393.	0.9	3
56	Biochar amendment techniques for upland rice production in Northern Laos. <i>Field Crops Research</i> , 2009, 111, 81-84.	2.3	795
57	Yield response of indica and tropical japonica genotypes to soil fertility conditions under rainfed uplands in northern Laos. <i>Field Crops Research</i> , 2009, 112, 141-148.	2.3	22
58	Soil management: The key factors for higher productivity in the fields utilizing the system of rice intensification (SRI) in the central highland of Madagascar. <i>Agricultural Systems</i> , 2009, 100, 61-71.	3.2	72
59	Response of Leaf Photosynthesis to Vapor Pressure Difference in Rice ( <i>Oryza sativa</i> L) Varieties in Relation to Stomatal and Leaf Internal Conductance. <i>Plant Production Science</i> , 2008, 11, 184-191.	0.9	29
60	Relay-Intercropping of <i>Stylosanthes guianensis</i> in Rainfed Lowland Rice Ecosystem in Northeast Thailand. <i>Plant Production Science</i> , 2008, 11, 385-392.	0.9	10
61	Evaluation of Transplanting Date and Nitrogen Fertilizer Rate Adapted by Farmers to Toposequential Variation of Environmental Resources in a Mini-Watershed (Nong) in Northeast Thailand. <i>Plant Production Science</i> , 2007, 10, 488-496.	0.9	20
62	Genotypic Variation of Stomatal Conductance in Relation to Stomatal Density and Length in Rice ( <i>Oryza sativa</i> L.). <i>Plant Production Science</i> , 2007, 10, 322-328.	0.9	89
63	Evaluation of genotypic variation in leaf photosynthetic rate and its associated factors by using rice diversity research set of germplasm. <i>Photosynthesis Research</i> , 2007, 94, 23-30.	1.6	49
64	Change of Weather Condition and its Effect on Rice Production during the Past 40 Years in Japan. <i>Japanese Journal of Crop Science</i> , 2007, 76, 423-432.	0.1	30
65	Usefulness of the World Surface Data Arranged by Japan Meteorological Agency. <i>Japanese Journal of Crop Science</i> , 2007, 76, 464-467.	0.1	1
66	Increased productivity of rainfed lowland rice by incorporation of pond sediments in Northeast Thailand. <i>Field Crops Research</i> , 2006, 96, 422-427.	2.3	17
67	Can Yields of Lowland Rice Resume the Increases that They Showed in the 1980s?. <i>Plant Production Science</i> , 2005, 8, 259-274.	0.9	156
68	Delay of heading date as an index of water stress in rainfed rice in mini-watersheds in Northeast Thailand. <i>Field Crops Research</i> , 2004, 88, 11-19.	2.3	61
69	Toposequential Variation in Soil Fertility and Rice Productivity of Rainfed Lowland Paddy Fields in Mini-Watershed(Nong)in Northeast Thailand. <i>Plant Production Science</i> , 2003, 6, 147-153.	0.9	59
70	Nitrogen management and cultivar effects on rice yield and nitrogen use efficiency in Northeast Thailand. <i>Field Crops Research</i> , 1999, 64, 109-120.	2.3	58
71	Energy Budget and Transpiration Characteristics of Rice Grown under Elevated CO <sub>2</sub> and High Temperature Conditions as Determined by Remotely Sensed Canopy Temperatures.. <i>Japanese Journal of Crop Science</i> , 1999, 68, 137-145.	0.1	15
72	Land Equivalent Ratio of Groundnut-Finger millet Intercrops as Affected by Plant Combination Ratio, and Nitrogen and Water Availability. <i>Plant Production Science</i> , 1998, 1, 39-46.	0.9	9

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73	Rice Responses to Elevated CO2 Concentrations and High Temperatures. J Agricultural Meteorology, 1997, 52, 797-800.	0.8	12