Jonghan Ko

List of Publications by Year
in descending order

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61	1,207	430874	414414
papers	citations	18 h-index	32 g-index

63	63	63	1273
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Impacts of climate change on paddy rice yield in a temperate climate. Global Change Biology, 2013, 19, 548-562.	9.5	100
2	Determination of growth-stage-specific crop coefficients (KC) of maize and sorghum. Agricultural Water Management, 2009, 96, 1698-1704.	5.6	92
3	Determination of growth-stage-specific crop coefficients (Kc) of cotton and wheat. Agricultural Water Management, 2009, 96, 1691-1697.	5.6	88
4	Climate change impacts on dryland cropping systems in the Central Great Plains, USA. Climatic Change, 2012, 111, 445-472.	3.6	72
5	Corn yield responses under crop evapotranspiration-based irrigation management. Agricultural Water Management, 2009, 96, 799-808.	5.6	71
6	Using EPIC model to manage irrigated cotton and maize. Agricultural Water Management, 2009, 96, 1323-1331.	5.6	67
7	Predicting rice yield at pixel scale through synthetic use of crop and deep learning models with satellite data in South and North Korea. Science of the Total Environment, 2022, 802, 149726.	8.0	51
8	Simulation of free air CO2 enriched wheat growth and interactions with water, nitrogen, and temperature. Agricultural and Forest Meteorology, 2010, 150, 1331-1346.	4.8	50
9	Further understanding CH4 emissions from a flooded rice field exposed to experimental warming with elevated [CO2]. Agricultural and Forest Meteorology, 2012, 154-155, 75-83.	4.8	29
10	Nutritional and developmental influences on components of rice crop light use efficiency. Agricultural and Forest Meteorology, 2016, 223, 1-16.	4.8	25
11	Simulation and mapping of rice growth and yield based on remote sensing. Journal of Applied Remote Sensing, 2015, 9, 096067.	1.3	23
12	Canopy scale CO2 exchange and productivity of transplanted paddy and direct seeded rainfed rice production systems in S. Korea. Agricultural and Forest Meteorology, 2016, 228-229, 229-238.	4.8	23
13	Monitoring canopy growth and grain yield of paddy rice in South Korea by using the GRAMI model and high spatial resolution imagery. GIScience and Remote Sensing, 2017, 54, 534-551.	5.9	23
14	Nationwide Projection of Rice Yield Using a Crop Model Integrated with Geostationary Satellite Imagery: A Case Study in South Korea. Remote Sensing, 2018, 10, 1665.	4.0	23
15	Monitoring paddy productivity in North Korea employing geostationary satellite images integrated with GRAMI-rice model. Scientific Reports, 2018, 8, 16121.	3.3	21
16	Modification of the GRAMI Model for Cotton. Agronomy Journal, 2005, 97, 1374-1379.	1.8	20
17	The Value of ENSO Forecast Information to Dual-Purpose Winter Wheat Production in the U.S. Southern High Plains. Journal of Applied Meteorology and Climatology, 2009, 48, 2100-2117.	1.5	20
18	Characterizing leaf gas exchange responses of cotton to full and limited irrigation conditions. Field Crops Research, 2009, 112, 77-89.	5.1	20

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19	Application of an unmanned aerial system for monitoring paddy productivity using the GRAMI-rice model. International Journal of Remote Sensing, 2018, 39, 2441-2462.	2.9	19
20	Modeling Water-Stressed Cotton Growth Using Within-Season Remote Sensing Data. Agronomy Journal, 2006, 98, 1600-1609.	1.8	18
21	A hybrid approach combining the FAO-56 method and the complementary principle for predicting daily evapotranspiration on a rainfed crop field. Journal of Hydrology, 2019, 577, 123941.	5.4	18
22	Crop Coefficients Specific to Multiple Phenological Stages for Evapotranspiration-based Irrigation Management of Onion and Spinach. Hortscience: A Publication of the American Society for Hortcultural Science, 2009, 44, 421-425.	1.0	17
23	Mathematical Integration of Remotely-Sensed Information into a Crop Modelling Process for Mapping Crop Productivity. Remote Sensing, 2019, 11, 2131.	4.0	16
24	Mapping rice area and yield in northeastern asia by incorporating a crop model with dense vegetation index profiles from a geostationary satellite. GIScience and Remote Sensing, 2021, 58, 1-27.	5.9	16
25	Parameterization of EPIC crop model for simulation of cotton growth in South Texas. Journal of Agricultural Science, 2009, 147, 169-178.	1.3	15
26	Impacts of regional climate change on barley yield and its geographical variation in South Korea. International Agrophysics, 2019, 33, 81-96.	1.7	15
27	Quantification of CO2 fluxes in paddy rice based on the characterization and simulation of CO2 assimilation approaches. Agricultural and Forest Meteorology, 2018, 249, 348-366.	4.8	14
28	Geographical variations in gross primary production and evapotranspiration of paddy rice in the Korean Peninsula. Science of the Total Environment, 2020, 714, 136632.	8.0	14
29	Simulation of climate change impacts on grain sorghum production grown under free air CO2 enrichment. International Agrophysics, 2016, 30, 311-322.	1.7	13
30	Potential impacts on climate change on paddy rice yield in mountainous highland terrains. Journal of Crop Science and Biotechnology, 2014, 17, 117-126.	1.5	12
31	Supplement understanding of the relative importance of biophysical factors in determination of photosynthetic capacity and photosynthetic productivity in rice ecosystems. Agricultural and Forest Meteorology, 2017, 232, 550-565.	4.8	12
32	Assessment of a Proximal Sensing-integrated Crop Model for Simulation of Soybean Growth and Yield. Remote Sensing, 2020, 12, 410.	4.0	12
33	Simulation of CO2 enrichment and climate change impacts on soybean production. International Agrophysics, 2016, 30, 25-37.	1.7	11
34	Construction of an unmanned aerial vehicle remote sensing system for crop monitoring. Journal of Applied Remote Sensing, 2016, 10, 026027.	1.3	11
35	A spatially hierarchical integration of close-range remote sensing, leaf structure and physiology assists in diagnosing spatiotemporal dimensions of field-scale ecosystem photosynthetic productivity. Agricultural and Forest Meteorology, 2017, 247, 503-519.	4.8	11
36	Quantifying differences in water and carbon cycling between paddy and rainfed rice (Oryza sativa L.) by flux partitioning. PLoS ONE, 2018, 13, e0195238.	2.5	11

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37	Biochemical Responses of Soybean (Glycine max L. Merr.) to Proton Beam Irradiation. Plant Breeding and Biotechnology, 2017, 5, 97-105.	0.9	11
38	Application of GOCI-derived vegetation index profiles to estimation of paddy rice yield using the GRAMI rice model. Computers and Electronics in Agriculture, 2015, 118, 1-8.	7.7	10
39	Conditional variations in temperature response of photosynthesis, mesophyll and stomatal control of water use in rice and winter wheat. Field Crops Research, 2016, 199, 77-88.	5.1	10
40	Updating Absolute Radiometric Characteristics for KOMPSAT-3 and KOMPSAT-3A Multispectral Imaging Sensors Using Well-Characterized Pseudo-Invariant Tarps and Microtops II. Remote Sensing, 2018, 10, 697.	4.0	10
41	Incorporation of machine learning and deep neural network approaches into a remote sensing-integrated crop model for the simulation of rice growth. Scientific Reports, 2022, 12, .	3.3	10
42	How do extreme wet events affect rice quality in a changing climate?. Agriculture, Ecosystems and Environment, 2013, 171, 47-54.	5.3	9
43	Global warming likely reduces crop yield and water availability of the dryland cropping systems in the U.S. Central Great Plains. Journal of Crop Science and Biotechnology, 2013, 16, 233-242.	1.5	8
44	Linking canopy reflectance to crop structure and photosynthesis to capture and interpret spatiotemporal dimensions of per-field photosynthetic productivity. Biogeosciences, 2017, 14, 1315-1332.	3.3	8
45	Soil water availability and capacity of nitrogen accumulation influence variations of intrinsic water use efficiency in rice. Journal of Plant Physiology, 2016, 193, 26-36.	3.5	7
46	Simulation of Crop Yields Grown under Agro-Photovoltaic Panels: A Case Study in Chonnam Province, South Korea. Energies, 2021, 14, 8463.	3.1	7
47	Simulation of Wheat Productivity Using a Model Integrated With Proximal and Remotely Controlled Aerial Sensing Information. Frontiers in Plant Science, 2021, 12, 649660.	3.6	6
48	The Evaluation of Meteorological Inputs retrieved from MODIS for Estimation of Gross Primary Productivity in the US Corn Belt Region. Korean Journal of Remote Sensing, 2011, 27, 481-494.	0.4	6
49	Two-Dimensional Simulation of Barley Growth and Yield Using a Model Integrated with Remote-Controlled Aerial Imagery. Remote Sensing, 2020, 12, 3766.	4.0	5
50	Determining Canopy Growth Conditions of Paddy Rice via Ground-based Remote Sensing. Korean Journal of Remote Sensing, 2015, 31, 11-20.	0.4	5
51	Contribution of Biophysical Factors to Regional Variations of Evapotranspiration and Seasonal Cooling Effects in Paddy Rice in South Korea. Remote Sensing, 2021, 13, 3992.	4.0	5
52	A Two-Tier Statistical Forecast Method for Agricultural and Resource Management Simulations. Journal of Applied Meteorology and Climatology, 2008, 47, 1573-1589.	1.5	4
53	Geospatial delineation of South Korea for adjusted barley cultivation under changing climate. Journal of Crop Science and Biotechnology, 2017, 20, 417-427.	1.5	4
54	Development of a light-emitting-diode-based bidirectional active remote-sensing system for monitoring crop growth. International Journal of Remote Sensing, 2015, 36, 1424-1438.	2.9	2

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55	Simulation of Spatiotemporal Variations in Cotton Lint Yield in the Texas High Plains. Remote Sensing, 2022, 14, 1421.	4.0	2
56	Radiation estimation and crop growth trajectory reconstruction by novel algorithms improve MOD16 evapotranspiration predictability for global multi-site paddy rice ecosystems. Journal of Hydrology, 2022, 612, 128204.	5.4	2
57	Determination of rice canopy growth based on high resolution satellite images: a case study using RapidEye imagery in Korea. AIMS Environmental Science, 2016, 3, 631-645.	1.4	1
58	Simulation of Staple Crop Yields for Determination of Regional Impacts of Climate Change: A Case Study in Chonnam Province, Republic of Korea. Agronomy, 2021, 11, 2544.	3.0	1
59	Focus on the application of crop science and biotechnology to climate change impact assessment and adaptation. Journal of Crop Science and Biotechnology, 2015, 18, 205-207.	1.5	0
60	Crop Simulation and Crop Evapotranspiration for Irrigation Management of Spinach. Hortscience: A Publication of the American Society for Hortcultural Science, 2006, 41, 971B-971.	1.0	0
61	Biochemical Responses of Soybean (Glycine max L. Merr.) to Proton Beam Irradiation. Plant Breeding and Biotechnology, 2017, 5, 97-105.	0.9	0