Soo-Hyung Kim

List of Publications by Year
in descending order

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71 papers	4,183 citations	147801 31 h-index	114465 63 g-index
76 all docs	76 docs citations	76 times ranked	6179 citing authors

#	Article	IF	Citations
1	How do various maize crop models vary in their responses to climate change factors?. Global Change Biology, 2014, 20, 2301-2320.	9.5	525
2	The beneficial endophyte Trichoderma hamatum isolate DIS 219b promotes growth and delays the onset of the drought response in Theobroma cacao. Journal of Experimental Botany, 2009, 60, 3279-3295.	4.8	425
3	Random Forests for Global and Regional Crop Yield Predictions. PLoS ONE, 2016, 11, e0156571.	2.5	377
4	Modeling approaches to estimate effective leaf area index from aerial discrete-return LIDAR. Agricultural and Forest Meteorology, 2009, 149, 1152-1160.	4.8	198
5	Do Endophytes Promote Growth of Host Plants Under Stress? A Meta-Analysis on Plant Stress Mitigation by Endophytes. Microbial Ecology, 2018, 75, 407-418.	2.8	163
6	Temperature dependence of growth, development, and photosynthesis in maize under elevated CO2. Environmental and Experimental Botany, 2007, 61, 224-236.	4.2	146
7	Biological nitrogen fixation and biomass accumulation within poplar clones as a result of inoculations with diazotrophic endophyte consortia. New Phytologist, 2014, 201, 599-609.	7.3	146
8	Growth enhancement and drought tolerance of hybrid poplar upon inoculation with endophyte consortia. Current Plant Biology, 2016, 6, 38-47.	4.7	132
9	An In vitro Study of Bio-Control and Plant Growth Promotion Potential of Salicaceae Endophytes. Frontiers in Microbiology, 2017, 8, 386.	3.5	126
10	A Coupled Model of Photosynthesis, Stomatal Conductance and Transpiration for a Rose Leaf (Rosa) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.9	121
11	Predicting Maize Phenology: Intercomparison of Functions for Developmental Response to Temperature. Agronomy Journal, 2014, 106, 2087-2097.	1.8	112
12	Canopy photosynthesis, evapotranspiration, leaf nitrogen, and transcription profiles of maize in response to CO2 enrichment. Global Change Biology, 2006, 12, 588-600.	9.5	111
13	Retrieval of Effective Leaf Area Index in Heterogeneous Forests With Terrestrial Laser Scanning. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 777-786.	6.3	93
14	The drought response of Theobroma cacao (cacao) and the regulation of genes involved in polyamine biosynthesis by drought and other stresses. Plant Physiology and Biochemistry, 2008, 46, 174-188.	5.8	92
15	Diazotrophic Endophytes of Poplar and Willow for Growth Promotion of Rice Plants in Nitrogenâ€Limited Conditions. Crop Science, 2015, 55, 1765-1772.	1.8	74
16	Variable Nitrogen Fixation in Wild Populus. PLoS ONE, 2016, 11, e0155979.	2.5	72
17	Biochar Amendment Increases Resistance to Stem Lesions Caused by Phytophthora spp. in Tree Seedlings. Hortscience: A Publication of the American Society for Hortcultural Science, 2012, 47, 1736-1740.	1.0	71
18	How accurately do maize crop models simulate the interactions of atmospheric CO2 concentration levels with limited water supply on water use and yield?. European Journal of Agronomy, 2018, 100, 67-75.	4.1	68

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19	Modeling Temperature Responses of Leaf Growth, Development, and Biomass in Maize with MAIZSIM. Agronomy Journal, 2012, 104, 1523-1537.	1.8	62
20	Simulation of maize evapotranspiration: An inter-comparison among 29 maize models. Agricultural and Forest Meteorology, 2019, 271, 264-284.	4.8	62
21	Modelling climate change impacts on maize yields under low nitrogen input conditions in subâ€Saharan Africa. Global Change Biology, 2020, 26, 5942-5964.	9.5	60
22	Effects of cross host species inoculation of nitrogenâ€fixing endophytes on growth and leaf physiology of maize. GCB Bioenergy, 2013, 5, 408-418.	5.6	59
23	Predicting the Timing of Cherry Blossoms in Washington, DC and Mid-Atlantic States in Response to Climate Change. PLoS ONE, 2011, 6, e27439.	2.5	48
24	Maize yield under a changing climate: The hidden role of vapor pressure deficit. Agricultural and Forest Meteorology, 2019, 279, 107692.	4.8	44
25	A salt on the bioenergy and biological invasions debate: salinity tolerance of the invasive biomass feedstock <scp>A</scp>rundo donax. GCB Bioenergy, 2015, 7, 752-762.	5.6	42
26	Case studies in co-benefits approaches to climate change mitigation and adaptation. Journal of Environmental Planning and Management, 2017, 60, 647-667.	4.5	42
27	A method for estimating carbon dioxide leakage rates in controlled-environment chambers using nitrous oxide. Environmental and Experimental Botany, 2004, 51, 103-110.	4.2	40
28	Approaches to Modeling Potato Leaf Appearance Rate. Agronomy Journal, 2006, 98, 522-528.	1.8	40
29	Arundo donax water use and photosynthetic responses to drought and elevated CO2. Agricultural Water Management, 2014, 136, 13-22.	5.6	40
30	Increased Biomass of Nursery-Grown Douglas-Fir Seedlings upon Inoculation with Diazotrophic Endophytic Consortia. Forests, 2015, 6, 3582-3593.	2.1	38
31	Evapotranspiration Measurement in Controlled Environment Chambers: A Comparison between Time Domain Reflectometry and Accumulation of Condensate from Cooling Coils. Agronomy Journal, 2007, 99, 166-173.	1.8	36
32	Cool nightâ€time temperatures induce the expression of CONSTANS and FLOWERING LOCUS T to regulate flowering inÂArabidopsis. New Phytologist, 2016, 211, 208-224.	7.3	33
33	A statistical analysis of three ensembles of crop model responses to temperature and CO2 concentration. Agricultural and Forest Meteorology, 2015, 214-215, 483-493.	4.8	31
34	Can a multi-model ensemble improve phenology predictions for climate change studies?. Ecological Modelling, 2017, 362, 54-64.	2.5	30
35	Salicaceae Endophytes Modulate Stomatal Behavior and Increase Water Use Efficiency in Rice. Frontiers in Plant Science, 2018, 9, 188.	3.6	30
36	Altered arsenic availability, uptake, and allocation in rice under elevated temperature. Science of the Total Environment, 2021, 763, 143049.	8.0	29

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37	Simulating Canopy Transpiration and Photosynthesis of Corn Plants under Contrasting Water Regimes Using a Coupled Model. Transactions of the ASABE, 2009, 52, 1011-1024.	1.1	28
38	Simulating leaf area of corn plants at contrasting water status. Agricultural and Forest Meteorology, 2009, 149, 1161-1167.	4.8	27
39	Nutritional quality of crops in a high CO₂ world: an agenda for research and technology development. Environmental Research Letters, 2021, 16, 064045.	5.2	27
40	Carbon gain, allocation and storage in rhizomes in response to elevated atmospheric carbon dioxide and nutrient supply in a perennial C3 grass, Phalaris arundinacea. Functional Plant Biology, 2011, 38, 797.	2.1	26
41	Endophytes alleviate the elevated CO2-dependent decrease in photosynthesis in rice, particularly under nitrogen limitation. Journal of Experimental Botany, 2020, 71, 707-718.	4.8	23
42	Bending Alters Water Balance and Reduces Photosynthesis of Rose Shoots. Journal of the American Society for Horticultural Science, 2004, 129, 896-901.	1.0	21
43	Quantification of photosynthetically active radiation inside sunlit growth chambers. Agricultural and Forest Meteorology, 2004, 126, 117-127.	4.8	20
44	An explanatory model of temperature influence on flowering through whole-plant accumulation of FLOWERING LOCUS T in Arabidopsis thaliana. In Silico Plants, 2019, 1, .	1.9	20
45	Endophytes Increased Fruit Quality with Higher Soluble Sugar Production in Honeycrisp Apple (Malus) Tj ETQq1 1 0.784314 rgBT /Over	3.6	19
46	Phytochrome B regulates resource allocation in Brassica rapa. Journal of Experimental Botany, 2018, 69, 2837-2846.	4.8	18
47	Effect of shoot-bending on productivity and economic value estimation of cut-flower roses grown in Coir and UC Mix. Scientia Horticulturae, 2004, 99, 331-343.	3.6	16
48	Photosynthetic and Transpiration Responses to Light, CO2, Temperature, and Leaf Senescence in Garlic: Analysis and Modeling. Journal of the American Society for Horticultural Science, 2013, 138, 149-156.	1.0	15
49	Nitrogen Concentration and Dry-Matter Accumulation in Maize Crop: Assessing Maize Nitrogen Status with an Allometric Function and a Chlorophyll Meter. Communications in Soil Science and Plant Analysis, 2012, 43, 1563-1575.	1.4	13
50	Does plant performance under stress explain divergent life history strategies? The effects of flooding and nutrient stress on two wetland sedges. Aquatic Botany, 2015, 120, 151-159.	1.6	13
51	Competitive traits of the invasive grass Arundo donax are enhanced by carbon dioxide and nitrogen enrichment. Weed Research, 2017, 57, 67-71.	1.7	10
52	Photosynthetic Acclimation, Biomass Allocation, and Water Use Efficiency of Garlic in Response to Carbon Dioxide Enrichment and Nitrogen Fertilization. Journal of the American Society for Horticultural Science, 2016, 141, 373-380.	1.0	8
53	A process-based model for leaf development and growth in hardneck garlic (Allium sativum). Annals of Botany, 2019, 124, 1143-1160.	2.9	7
54	Endophyte Effects on Photosynthesis and Water Use of Plant Hosts: A Meta-Analysis. , 2017, , 43-69.		6

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55	Estimating microbial respiratory CO₂ from endophytic bacteria in rice. Plant Signaling and Behavior, 2018, 13, 1-5.	2.4	5
56	Coupled Gas-Exchange Model for C4 Leaves Comparing Stomatal Conductance Models. Plants, 2020, 9, 1358.	3.5	5
57	A spatio-temporal analysis of rice production in Tonle Sap floodplains in response to changing hydrology and climate. Agricultural Water Management, 2021, 258, 107183.	5.6	5
58	MODELING PHOTOSYNTHESIS OF HETEROGENEOUS ROSE CROP CANOPIES IN THE GREENHOUSE. Acta Horticulturae, 2002, , 121-128.	0.2	4
59	PARAMETERIZATION AND TESTING OF A COUPLED MODEL OF PHOTOSYNTHESIS-STOMATAL CONDUCTANCE FOR GREENHOUSE ROSE CROP. Acta Horticulturae, 2002, , 113-120.	0.2	3
60	Storage effects on genomic DNA in rolled and mature coca leaves. BioTechniques, 2003, 35, 310-316.	1.8	3
61	Analysis and modeling of gas exchange processes in Scaevola aemula. Scientia Horticulturae, 2007, 114, 170-176.	3.6	2
62	Effects of CO₂ and Temperature on Crops: Lessons from SPAR Growth Chambers. ICP Series on Climate Change Impacts, Adaptation, and Mitigation, 2010, , 55-86.	0.4	2
63	Proposed Standards for Peer-Reviewed Publication of Computer Code. Agronomy Journal, 2016, 108, 1782-1786.	1.8	2
64	Emerging Methods for Diagnostics and Mitigation of Crop Environmental Stress in a Changing Climate. Hortscience: A Publication of the American Society for Hortcultural Science, 2012, 47, 684-686.	1.0	2
65	Simulation of the Effects of Limited Water on Photosynthesis and Transpiration in Field Crops: Can We Advance Our Modeling Approaches?. Advances in Agricultural Systems Modeling, 0, , 105-143.	0.3	2
66	An Integrative Process-Based Model for Biomass and Yield Estimation of Hardneck Garlic (Allium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	3.6	2
67	Advances and improvements in modeling plant processes. Burleigh Dodds Series in Agricultural Science, 2019, , 3-44.	0.2	1
68	Predicting Harvest Maturity of the 'Fuji' Apple at the Gunwi Province of the South Korea using DTS Phenology Model. Journal of Environmental Science International, 2015, 24, 1547-1550.	0.2	1
69	Maize water use and yield in the solar corridor system: a simulation study. , 2019, , 57-78.		0
70	Simulation of Nitrogen Demand and Uptake in Potato Using a Carbon-Assimilation Approach. , 2008, , 219-243.		0
71	An Improved Method for Phenology Model Parameterization Using Sequential Optimization. Korean Journal of Agricultural and Forest Meteorology, 2014, 16, 304-308.	0.2	0