

Masayuki Yokozawa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/982617/publications.pdf>

Version: 2024-02-01

106
papers

6,003
citations

87888

38
h-index

74163

75
g-index

108
all docs

108
docs citations

108
times ranked

5981
citing authors

#	ARTICLE	IF	CITATIONS
1	A Bayesian inversion framework to evaluate parameter and predictive inference of a simple soil respiration model in a cool-temperate forest in western Japan. <i>Ecological Modelling</i> , 2020, 418, 108918.	2.5	3
2	Effectively tuning plant growth models with different spatial complexity: A statistical perspective. <i>Ecological Modelling</i> , 2017, 361, 95-112.	2.5	1
3	A Model of Silicon Dynamics in Rice: An Analysis of the Investment Efficiency of Si Transporters. <i>Frontiers in Plant Science</i> , 2017, 8, 1187.	3.6	18
4	Complex network analysis reveals novel essential properties of competition among individuals in an even-aged plant population. <i>Ecological Complexity</i> , 2016, 26, 95-116.	2.9	6
5	Indirect facilitation induced by competition among plants. <i>Nonlinear Theory and Its Applications IEICE</i> , 2016, 7, 126-145.	0.6	2
6	Technological spillover in Japanese rice productivity under long-term climate change: evidence from the spatial econometric model. <i>Paddy and Water Environment</i> , 2016, 14, 131-144.	1.8	8
7	Modeling irrigation-based climate change adaptation in agriculture: Model development and evaluation in Northeast China. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 1409-1424.	3.8	23
8	Microhabitat locality allows multi-species coexistence in terrestrial plant communities. <i>Scientific Reports</i> , 2015, 5, 15376.	3.3	7
9	<i>FluxPro&/i> as a realtime monitoring and surveilling system for eddy covariance flux measurement. <i>J Agricultural Meteorology</i> , 2015, 71, 32-50.	1.5	10
10	Inversely Estimating the Vertical Profile of the Soil CO ₂ Production Rate in a Deciduous Broadleaf Forest Using a Particle Filtering Method. <i>PLoS ONE</i> , 2015, 10, e0119001.	2.5	2
11	Competition among plants can lead to an increase in aggregation of smaller plants around larger ones. <i>Ecological Modelling</i> , 2015, 301, 41-53.	2.5	17
12	In Silico Simulation Modeling Reveals the Importance of the Casparian Strip for Efficient Silicon Uptake in Rice Roots. <i>Plant and Cell Physiology</i> , 2015, 56, 631-639.	3.1	91
13	Historical changes in global yields: major cereal and legume crops from 1982 to 2006. <i>Global Ecology and Biogeography</i> , 2014, 23, 346-357.	5.8	115
14	Impacts of El Niño Southern Oscillation on the global yields of major crops. <i>Nature Communications</i> , 2014, 5, 3712.	12.8	273
15	Dependency of parameter values of a crop model on the spatial scale of simulation. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 527-540.	3.8	26
16	A modeling approach for assessing rice cropping cycle affected by flooding, salinity intrusion, and monsoon rains in the Mekong Delta, Vietnam. <i>Paddy and Water Environment</i> , 2014, 12, 343-354.	1.8	24
17	Is long-term climate change beneficial or harmful for rice total factor productivity in Japan: evidence from a panel data analysis. <i>Paddy and Water Environment</i> , 2014, 12, 213-225.	1.8	15
18	How much has the increase in atmospheric CO ₂ directly affected past soybean production?. <i>Scientific Reports</i> , 2014, 4, 4978.	3.3	54

#	ARTICLE	IF	CITATIONS
19	Influences of Climate Change and Spatial Dependence on Rice Total Factor Productivity: Evidence from Spatial Econometric Models. <i>Studies in Regional Science</i> , 2014, 44, 305-325.	0.1	3
20	Contributions of historical changes in sowing date and climate to U.S. maize yield trend: An evaluation using large-area crop modeling and data assimilation. <i>J Agricultural Meteorology</i> , 2014, 70, 73-90.	1.5	11
21	Applicability of empirical solar radiation models to altered climate. <i>J Agricultural Meteorology</i> , 2014, 70, 13-23.	1.5	0
22	Prediction of seasonal climate-induced variations in global food production. <i>Nature Climate Change</i> , 2013, 3, 904-908.	18.8	143
23	Vertical soil-air CO ₂ dynamics at the Takayama deciduous broadleaved forest AsiaFlux site. <i>Journal of Forest Research</i> , 2013, 18, 49-59.	1.4	5
24	An ensemble approach to the representation of subgrid-scale heterogeneity of crop phenology and yield in coarse-resolution large-area crop models. <i>J Agricultural Meteorology</i> , 2013, 69, 243-254.	1.5	6
25	Estimation of the damage area due to tropical cyclones using fragility curves for paddy rice in Japan. <i>Environmental Research Letters</i> , 2012, 7, 014020.	5.2	23
26	Impacts of land-use changes on surface warming rates and rice yield in Shikoku, western Japan. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	11
27	Evaluation of CO ₂ Exchange Rates in a Wetland Ecosystem Using the Closed Geosphere Experiment Facility. <i>Journal of Hydrometeorology</i> , 2012, 13, 966-980.	1.9	1
28	Inversely estimating temperature sensitivity of soil carbon decomposition by assimilating a turnover model and long-term field data. <i>Soil Biology and Biochemistry</i> , 2012, 46, 191-199.	8.8	14
29	Statistical downscaling with Bayesian inference: Estimating global solar radiation from reanalysis and limited observed data. <i>International Journal of Climatology</i> , 2012, 32, 464-480.	3.5	12
30	Evaluation and intercomparison of downscaled daily precipitation indices over Japan in present-day climate: Strengths and weaknesses of dynamical and bias correction-type statistical downscaling methods. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	75
31	Tolerance of eddy covariance flux measurement. <i>Hydrological Research Letters</i> , 2011, 5, 73-77.	0.5	5
32	Probabilistic evaluation of climate change impacts on paddy rice productivity in Japan. <i>Climatic Change</i> , 2011, 107, 391-415.	3.6	66
33	Dangerous levels of climate change for agricultural production in China. <i>Regional Environmental Change</i> , 2011, 11, 41-48.	2.9	19
34	Modeling the multiple effects of temperature and radiation on rice quality. <i>Environmental Research Letters</i> , 2011, 6, 034031.	5.2	20
35	Projecting climate change impacts both on rice quality and yield in Japan. <i>J Agricultural Meteorology</i> , 2011, 67, 285-295.	1.5	19
36	The hot summers and rice in Japan. <i>J Agricultural Meteorology</i> , 2011, 67, 205-207.	1.5	3

#	ARTICLE	IF	CITATIONS
37	Varying temporal and spatial effects of climate on maize and soybean affect yield prediction. <i>Climate Research</i> , 2011, 49, 143-154.	1.1	31
38	More asymmetric tree competition brings about more evapotranspiration and less runoff from the forest ecosystems: A simulation study. <i>Ecological Modelling</i> , 2010, 221, 2887-2898.	2.5	7
39	Use of the RothC model to estimate the carbon sequestration potential of organic matter application in Japanese arable soils. <i>Soil Science and Plant Nutrition</i> , 2010, 56, 168-176.	1.9	49
40	Introduction to climate change scenario derived by statistical downscaling. <i>J Agricultural Meteorology</i> , 2010, 66, 131-143.	1.5	40
41	Variations in water resources in the Vietnamese Mekong Delta in response to climate change and their impacts on rice production. <i>J Agricultural Meteorology</i> , 2010, 66, 11-21.	1.5	6
42	Diagnostics of Climate Model Biases in Summer Temperature and Warm-Season Insolation for the Simulation of Regional Paddy Rice Yield in Japan. <i>Journal of Applied Meteorology and Climatology</i> , 2010, 49, 574-591.	1.5	20
43	Potential Predictability of Local Paddy Rice Yield Variation Using a Crop Model with Local Areal Information. <i>Agricultural Information Research</i> , 2010, 19, 36-42.	0.2	3
44	Detection of Yearly Change in Farming Systems in the Vietnamese Mekong Delta from MODIS Time-Series Imagery. <i>Japan Agricultural Research Quarterly</i> , 2009, 43, 173-185.	0.4	26
45	Soil CO ₂ concentrations and their implications in conventional and no-tillage agricultural fields. <i>J Agricultural Meteorology</i> , 2009, 65, 141-149.	1.5	15
46	A climatological analysis on the recent declining trend of rice quality in Japan. <i>J Agricultural Meteorology</i> , 2009, 65, 327-337.	1.5	14
47	Foliage profiles of individual trees determine competition, self-thinning, biomass and NPP of a <i>Cryptomeria japonica</i> forest stand: A simulation study based on a stand-scale process-based forest model. <i>Ecological Modelling</i> , 2009, 220, 2272-2280.	2.5	13
48	Climate change, land use change, and China's food security in the twenty-first century: an integrated perspective. <i>Climatic Change</i> , 2009, 93, 433-445.	3.6	41
49	Analysis of rapid expansion of inland aquaculture and triple rice-cropping areas in a coastal area of the Vietnamese Mekong Delta using MODIS time-series imagery. <i>Landscape and Urban Planning</i> , 2009, 92, 34-46.	7.5	84
50	Parameter estimation and uncertainty analysis of a large-scale crop model for paddy rice: Application of a Bayesian approach. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 333-348.	4.8	165
51	Modelling the impacts of weather and climate variability on crop productivity over a large area: A new process-based model development, optimization, and uncertainties analysis. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 831-850.	4.8	172
52	Modelling the impacts of weather and climate variability on crop productivity over a large area: A new super-ensemble-based probabilistic projection. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 1266-1278.	4.8	127
53	Agro-ecological Interpretation of Rice Cropping Systems in Flood-prone Areas using MODIS Imagery. <i>Photogrammetric Engineering and Remote Sensing</i> , 2009, 75, 413-424.	0.6	28
54	Mesh Climate Change Data of Japan Ver.2 for Climate Change Impact Assessments Under IPCC SRES A1B and A2. <i>J Agricultural Meteorology</i> , 2009, 65, 97-109.	1.5	33

#	ARTICLE	IF	CITATIONS
55	Development of impact functions on regional paddy rice yield in Japan for integrated impact assessment models. <i>J Agricultural Meteorology</i> , 2009, 65, 179-190.	1.5	7
56	Global warming, rice production, and water use in China: Developing a probabilistic assessment. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 94-110.	4.8	210
57	Climate Change Impact on Rice Insurance Payouts in Japan. <i>Journal of Applied Meteorology and Climatology</i> , 2008, 47, 2265-2278.	1.5	17
58	Land surface phenology dynamics and climate variations in the North East China Transect (NECT), 1982-2000. <i>International Journal of Remote Sensing</i> , 2008, 29, 5461-5478.	2.9	43
59	Regional Consequences of Seawater Intrusion on Rice Productivity and Land Use in Coastal Area of the Mekong River Delta. <i>Japan Agricultural Research Quarterly</i> , 2008, 42, 267-274.	0.4	39
60	Sensitivity of Salinity Intrusion to Sea Level Rise and River Flow Change in Vietnamese Mekong Delta-Impacts on Availability of Irrigation Water for Rice Cropping. <i>J Agricultural Meteorology</i> , 2008, 64, 167-176.	1.5	40
61	Combined Equations for Estimating Global Solar Radiation: Projection of Radiation Field over Japan under Global Warming Conditions by Statistical Downscaling. <i>J Agricultural Meteorology</i> , 2008, 64, 9-23.	1.5	19
62	Climate-crop yield relationships at provincial scales in China and the impacts of recent climate trends. <i>Climate Research</i> , 2008, 38, 83-94.	1.1	305
63	Detecting temporal changes in the extent of annual flooding within the Cambodia and the Vietnamese Mekong Delta from MODIS time-series imagery. <i>Remote Sensing of Environment</i> , 2007, 109, 295-313.	11.0	349
64	Simulating the carbon balance of a temperate larch forest under various meteorological conditions. <i>Carbon Balance and Management</i> , 2007, 2, 6.	3.2	6
65	Assessing the impacts of climate change on rice yields in the main rice areas of China. <i>Climatic Change</i> , 2007, 80, 395-409.	3.6	167
66	Climate changes and trends in phenology and yields of field crops in China, 1981-2000. <i>Agricultural and Forest Meteorology</i> , 2006, 138, 82-92.	4.8	468
67	Spatio-temporal distribution of rice phenology and cropping systems in the Mekong Delta with special reference to the seasonal water flow of the Mekong and Bassac rivers. <i>Remote Sensing of Environment</i> , 2006, 100, 1-16.	11.0	216
68	A chamber system with automatic opening and closing for continuously measuring soil respiration based on an open-flow dynamic method. <i>Ecological Research</i> , 2006, 21, 405-414.	1.5	43
69	How to analyze long-term insect population dynamics under climate change: 50-year data of three insect pests in paddy fields. <i>Population Ecology</i> , 2006, 48, 31-48.	1.2	96
70	Acid hydrolysis to partition plant material into decomposable and resistant fractions for use in the Rothamsted carbon model. <i>Soil Biology and Biochemistry</i> , 2006, 38, 812-816.	8.8	70
71	Impact of Global Warming on Rice Production in Japan Based on Five Coupled Atmosphere-Ocean GCMs. <i>Scientific Online Letters on the Atmosphere</i> , 2006, 2, 156-159.	1.4	15
72	Impact of Global Warming on Broiler Meat Production Estimated from Changes of the Mean Ambient Temperature. <i>Nihon Chikusan Gakkaiho</i> , 2006, 77, 231-235.	0.2	7

#	ARTICLE	IF	CITATIONS
73	Testing the Rothamsted Carbon Model against data from long-term experiments on upland soils in Thailand. <i>European Journal of Soil Science</i> , 2005, 56, 179-188.	3.9	32
74	Applying the Rothamsted Carbon Model for Long-Term Experiments on Japanese Paddy Soils and Modifying It by Simple Tuning of the Decomposition Rate. <i>Soil Science and Plant Nutrition</i> , 2005, 51, 405-415.	1.9	36
75	Remote sensing of crop production in China by production efficiency models: models comparisons, estimates and uncertainties. <i>Ecological Modelling</i> , 2005, 183, 385-396.	2.5	96
76	A crop phenology detection method using time-series MODIS data. <i>Remote Sensing of Environment</i> , 2005, 96, 366-374.	11.0	698
77	A Perspective on Water Resources in China: Interactions between Climate Change and Soil Degradation. <i>Climatic Change</i> , 2005, 68, 169-197.	3.6	46
78	Risk Analyses of Rice Yield to Seasonal Climate Variability in China. <i>J Agricultural Meteorology</i> , 2005, 60, 885-887.	1.5	9
79	Future Agricultural Water Resources and Agricultural Production in China--Interactions between Climate Change and Soil Degradation. <i>J Agricultural Meteorology</i> , 2005, 60, 1169-1174.	1.5	1
80	Impact of Global Warming on Environments for Apple and Satsuma Mandarin Production Estimated from Changes of the Annual Mean Temperature. <i>Journal of the Japanese Society for Horticultural Science</i> , 2004, 73, 72-78.	0.5	45
81	Developing a Multilayered Integrated Numerical Model of Surface Physics - Growing Plants Interaction (MINoSGI). <i>Global Change Biology</i> , 2004, 10, 963-982.	9.5	39
82	Variability in climatology and agricultural production in China in association with the East Asian summer monsoon and El Niño Southern Oscillation. <i>Climate Research</i> , 2004, 28, 23-30.	1.1	80
83	Future climate change, the agricultural water cycle, and agricultural production in China. <i>Agriculture, Ecosystems and Environment</i> , 2003, 95, 203-215.	5.3	150
84	Changes in the Southwest Monsoon mean daily rainfall intensity in Sri Lanka: relationship to the El Niño Southern Oscillation. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2003, 197, 1-14.	2.3	34
85	Changes in agricultural water demands and soil moisture in China over the last half-century and their effects on agricultural production. <i>Agricultural and Forest Meteorology</i> , 2003, 118, 251-261.	4.8	115
86	Terrestrial Water Cycle and the Impact of Climate Change. <i>Ambio</i> , 2003, 32, 295-301.	5.5	24
87	Mesh Climate Change Data for Evaluating Climate Change Impacts in Japan under Gradually Increasing Atmospheric CO2 Concentration. <i>J Agricultural Meteorology</i> , 2003, 59, 117-130.	1.5	45
88	Terrestrial Water Cycle and the Impact of Climate Change. <i>Ambio</i> , 2003, 32, 295.	5.5	1
89	Prediction of a geographical shift in the prevalence of rice stripe virus disease transmitted by the small brown planthopper, <i>Laodelphax striatellus</i> (Fallen)(Hemiptera: Delphacidae), under global warming.. <i>Applied Entomology and Zoology</i> , 2002, 37, 181-190.	1.2	49
90	Diurnal changes of carbon dioxide flux from bare soil in agricultural field in Japan. <i>Applied Soil Ecology</i> , 2002, 19, 161-171.	4.3	49

#	ARTICLE	IF	CITATIONS
91	Multivariate Statistical Analysis of the Seasonal Rainfall Regimes of the Guinea-Fouta Djallon Mountains of West Africa. <i>J Agricultural Meteorology</i> , 2002, 58, 171-183.	1.5	3
92	Interclonal differences, plasticity and trade-offs of life history traits of <i>Cyperus esculentus</i> in relation to water availability. <i>Plant Species Biology</i> , 2001, 16, 193-207.	1.0	30
93	Model analysis of the influence of gas diffusivity in soil on CO and H ₂ uptake. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000, 52, 919-933.	1.6	23
94	Concentrations of carbon monoxide and methane at two heights above a grass field and their deposition onto the field. <i>Atmospheric Environment</i> , 2000, 34, 5007-5014.	4.1	7
95	Size Hierarchy and Stability in Competitive Plant Populations. <i>Bulletin of Mathematical Biology</i> , 1999, 61, 949-961.	1.9	6
96	Global versus local coupling models and theoretical stability analysis of size-structure dynamics in plant populations. <i>Ecological Modelling</i> , 1999, 118, 61-72.	2.5	12
97	Effects of competition mode on the spatial pattern dynamics of wave regeneration in subalpine tree stands. <i>Ecological Modelling</i> , 1999, 118, 73-86.	2.5	25
98	Study of Cassette System for Linacography Using Computed Radiography : Application of a Heavy Metallic Sheet to the Metallic Plate. <i>Japanese Journal of Radiological Technology</i> , 1999, 55, 198-204.	0.1	1
99	Effects of competition mode on spatial pattern dynamics in plant communities. <i>Ecological Modelling</i> , 1998, 106, 1-16.	2.5	34
100	A Weather Generator for the Prediction of Crop Yields under Changeable Climates. <i>J Agricultural Meteorology</i> , 1997, 52, 745-748.	1.5	0
101	Crown Architecture and Species Coexistence in Plant Communities. <i>Annals of Botany</i> , 1996, 78, 437-447.	2.9	23
102	Foliage Profile, Size Structure and Stem Diameter-Plant Height Relationship in Crowded Plant Populations. <i>Annals of Botany</i> , 1995, 76, 271-285.	2.9	51
103	Effects of Physiological and Environmental Variations on Size-Structure Dynamics in Plant Populations. <i>Annals of Botany</i> , 1994, 73, 39-51.	2.9	27
104	A Canopy Photosynthesis Model for the Dynamics of Size Structure and the Competition Mode in Plant Populations. <i>J Agricultural Meteorology</i> , 1993, 48, 827-830.	1.5	0
105	A Canopy Photosynthesis Model for the Dynamics of Size Structure and Self-thinning in Plant Populations. <i>Annals of Botany</i> , 1992, 70, 305-316.	2.9	68
106	Competition between the Néel and the Effective Singlet States in Spin-1/2 Alternating Heisenberg-Ising Antiferromagnet in One Dimension. <i>Journal of the Physical Society of Japan</i> , 1987, 56, 4126-4133.	1.6	10