

Daisuke Yasutake

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Spatiotemporally variable incident light, leaf photosynthesis, and yield across a greenhouse: fine-scale hemispherical photography and a photosynthesis model. <i>Precision Agriculture</i> , 2023, 24, 114-138.	3.1	3
2	Characterization of canopy structure for high-yield performance of greenhouse-grown satsuma mandarins using direct measurements and indirect estimations. <i>J Agricultural Meteorology</i> , 2022, 78, 19-30.	0.8	2
3	Dynamics of carbon export from leaves as translocation affected by the coordination of carbohydrate availability in field strawberry. <i>Environmental and Experimental Botany</i> , 2022, 196, 104806.	2.0	16
4	Analyzing the Carbon Partitioning Characteristics and Their Dependence on Leaf Growth Stage in Chinese Chive Using ^{13}C Tracer Method. <i>Environmental Control in Biology</i> , 2022, 60, 39-42.	0.3	1
5	Internet of Plants (IoP) Empowers Bottom-up Innovations in Greenhouse Horticulture. <i>Environmental Control in Biology</i> , 2022, 60, 3-12.	0.3	9
6	Visualization of Plant Production Environment and Eco-physiological Information. <i>Shokubutsu Kankyo Kogaku</i> , 2022, 34, 14-20.	0.1	0
7	Crop-local CO ₂ enrichment improves strawberry yield and fuel use efficiency in protected cultivations. <i>Scientia Horticulturae</i> , 2022, 301, 111104.	1.7	13
8	Estimation of the Leaf Area Index, Leaf Fresh Weight, and Leaf Length of Chinese Chive (<i>Allium Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46</i>) Hortscience: A Publication of the American Society for Horticultural Science, 2022, 57, 777-784.	0.5	2
9	A canopy photosynthesis model based on a highly generalizable artificial neural network incorporated with a mechanistic understanding of single-leaf photosynthesis. <i>Agricultural and Forest Meteorology</i> , 2022, 323, 109036.	1.9	11
10	Dynamic modelling of cold-hardiness in tea buds by imitating past temperature memory. <i>Annals of Botany</i> , 2021, 127, 317-326.	1.4	5
11	Long-term compound interest effect of CO ₂ enrichment on the carbon balance and growth of a leafy vegetable canopy. <i>Scientia Horticulturae</i> , 2021, 283, 110060.	1.7	10
12	Development and Performance Evaluation of a Plant Phenotyping Platform Using Low-cost IoT Devices. <i>Agricultural Information Research</i> , 2021, 30, 13-23.	0.2	2
13	Evaluation of the physiological significance of leaf wetting by dew as a supplemental water resource in semi-arid crop production. <i>Agricultural Water Management</i> , 2021, 255, 106964.	2.4	12
14	Limiting factor of dew formation changes seasonally in a semiarid crop field of northwest China. <i>Agricultural and Forest Meteorology</i> , 2021, 311, 108705.	1.9	6
15	Spatial examination of leaf-boundary-layer conductance using artificial leaves for assessment of light airflow within a plant canopy under different controlled greenhouse conditions. <i>Agricultural and Forest Meteorology</i> , 2020, 280, 107773.	1.9	15
16	CFD analysis for evaluating and optimizing spatial distribution of CO ₂ concentration in a strawberry greenhouse under different CO ₂ enrichment methods. <i>Computers and Electronics in Agriculture</i> , 2020, 179, 105811.	3.7	25
17	Long-term and Continuous Measurement of Canopy Photosynthesis and Growth of Spinach. <i>Environmental Control in Biology</i> , 2020, 58, 21-29.	0.3	14
18	Calculation of the irradiance of solar radiation in a greenhouse with a complex structure using a diagram for sky view factor. <i>J Agricultural Meteorology</i> , 2020, 76, 44-52.	0.8	3

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19	Spatiotemporal variability of leaf photosynthesis and its linkage with microclimates across an environment-controlled greenhouse. <i>Biosystems Engineering</i> , 2020, 195, 97-115.	1.9	34
20	Effects of supplemental lighting during the period of rapid fruit development on the growth, yield, and energy use efficiency in strawberry plant production. <i>International Agrophysics</i> , 2020, 34, 233-239.	0.7	13
21	SIMULTANEOUS RECOVERY OF PHOSPHORUS AND POTASSIUM FROM BIOMASS AS MAGNESIUM SALT. <i>Journal of Japan Society of Civil Engineers Ser G (Environmental Research)</i> , 2020, 76, III_181-III_187.	0.1	0
22	Hybrid Vigor Induced by Cross-breeding Enhances Canopy Photosynthesis and Fruit Yield of Japanese Sweet Pepper. <i>Environmental Control in Biology</i> , 2019, 57, 29-38.	0.3	3
23	A New Method of Evaluating Gas Fluxes in a Closed Chamber System with Theoretical Consideration for Dynamic Characteristics of a Concentration Sensor. <i>Environmental Control in Biology</i> , 2019, 57, 53-59.	0.3	3
24	A Preliminary Experiment on the Effects of Leaf Wetting on Gas Exchange in Tomato Leaves. <i>Environmental Control in Biology</i> , 2018, 56, 13-16.	0.3	5
25	Dynamic Analysis of Photosynthate Translocation Into Strawberry Fruits Using Non-invasive ¹¹ C-Labeling Supported With Conventional Destructive Measurements Using ¹³ C-Labeling. <i>Frontiers in Plant Science</i> , 2018, 9, 1946.	1.7	30
26	Dynamic distribution of thermal effects of an oscillating frost protective fan in a tea field. <i>Biosystems Engineering</i> , 2017, 164, 98-109.	1.9	12
27	Application of Transpiration Integrated Model to Simulation of Dynamics of Ion Absorption by Tomato Roots Growing in Soil-less Culture. <i>Environmental Control in Biology</i> , 2017, 55, 29-35.	0.3	1
28	Effects of Local CO ₂ Enrichment on Strawberry Cultivation during the Winter Season. <i>Environmental Control in Biology</i> , 2017, 55, 165-170.	0.3	20
29	Application of the Constant Soil Temperature Layer for Energy-saving Control in the Local Environment of Greenhouse Crops II. Application to Strawberry Cultivation during the Winter Season. <i>Environmental Control in Biology</i> , 2017, 55, 37-40.	0.3	0
30	Dynamics of Photosynthate Loading in Strawberries Affected by Light Condition on Source Leaves. <i>Environmental Control in Biology</i> , 2017, 55, 53-58.	0.3	4
31	Leaf Boundary Layer Conductance in a Tomato Canopy under the Convective Effect of Circulating Fans in a Greenhouse Heated by an Air Duct Heater. <i>Environmental Control in Biology</i> , 2016, 54, 171-176.	0.3	4
32	Multiple Effects of CO ₂ Concentration and Humidity on Leaf Gas Exchanges of Sweet Pepper in the Morning and Afternoon. <i>Environmental Control in Biology</i> , 2016, 54, 177-181.	0.3	2
33	Night-time leaf wetting process and its effect on the morning humidity gradient as a driving force of transpirational water loss in a semi-arid cornfield. <i>Biologia (Poland)</i> , 2015, 70, 1485-1489.	0.8	9
34	Evapotranspiration Integrated Model for Analysis of Soil Salinization Affected by Root Selective Absorption. <i>Environmental Control in Biology</i> , 2015, 53, 199-204.	0.3	2
35	Shokubutsu Kankyo Kogaku, 2015, 27, 1-13.		
36	An Open-flow Chamber with a Multiple CO ₂ -Gas Analyzing System for Continuous Measurement of Soil Respiration in a Greenhouse. <i>Environmental Control in Biology</i> , 2014, 52, 7-12.	0.3	6

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37	Advantages of pre-harvest temporal flooding in a catch crop field in relation to soil moisture and nutrient salt removal by root uptake. <i>Biologia (Poland)</i> , 2014, 69, 1577-1584.	0.8	5
38	Control of Greenhouse Humidity and Airflow with Fogging and Circulation Systems and Its Effect on Leaf Conductance in Cucumber Plants. <i>Environmental Control in Biology</i> , 2014, 52, 101-105.	0.3	7
39	Soil moisture variability on a steep slope near a ridge in a forested mountain range, Shikoku, Japan: a model study. <i>Biologia (Poland)</i> , 2013, 68, 1109-1112.	0.8	5
40	Transpiration integrated model for root ion absorption under salinized condition. <i>Biologia (Poland)</i> , 2013, 68, 1113-1117.	0.8	7
41	Application of the Constant Soil Temperature Layer for Energy-saving Control of the Local Environment of Greenhouse Crops. I. Local Control of the Ambient Environment of Strawberry. <i>Environmental Control in Biology</i> , 2013, 51, 89-94.	0.3	6
42	High Yields of Strawberry by Applying Vertically-Moving Beds on the Basis of Leaf Photosynthesis. <i>Environmental Control in Biology</i> , 2012, 50, 143-152.	0.3	12
43	Quantitative Evaluation of the Direct Uptake of Organic Nitrogen by Tomato Roots Associated with Plant Growth and Water Uptake: Use of a Root Chamber with HPFM. <i>Environmental Control in Biology</i> , 2012, 50, 173-179.	0.3	3
44	Application of a Kinetic Model for Analysis of Salt Absorption of Crop Roots under the Salinized Condition. <i>Environmental Control in Biology</i> , 2012, 50, 153-161.	0.3	3
45	Use of a High-Pressure Flowmeter for Evaluating Hydraulic Characteristics of Plant Organs and Absorption Functions of Roots. <i>Environmental Control in Biology</i> , 2011, 49, 99-105.	0.3	4
46	Development of Rapid Pretreatment Method Using Microwave-Assisted Extraction with Biphasic Organic-Aqueous System for Analysis of Persistent Organic Pollutants in Soil. <i>Bunseki Kagaku</i> , 2011, 60, 705-711.	0.1	2
47	Development of a supersonic pan-evaporimeter for dynamic analysis of evaporative demand in a greenhouse. <i>J Agricultural Meteorology</i> , 2011, 67, 193-198.	0.8	5
48	Saline Water Seepage from Drainage Canals Induces Soil Salinization and Growth Depression in the Adjacent Cornfields in the Upper Yellow River Basin. <i>Environmental Control in Biology</i> , 2011, 49, 127-132.	0.3	2
49	Analyzing Evapotranspiration Components and Crop Coefficients for Catch Crop Field with Small Area at Different Plant Densities in a Greenhouse. <i>Environmental Control in Biology</i> , 2011, 49, 217-225.	0.3	8
50	Kinetics of Root Ion Absorption Affected by Environmental Factors and Transpiration II. Environmental Effects and a Concentration-Dependent Model. <i>Environmental Control in Biology</i> , 2011, 49, 33-40.	0.3	13
51	Kinetics of Root Ion Absorption Affected by Environmental Factors and Transpiration III. A Kinetic Model Integrated with Transpiration. <i>Environmental Control in Biology</i> , 2011, 49, 41-46.	0.3	9
52	Relationship between the concentrations of polychlorinated dibenzo-p-dioxins, polychlorinated dibenzofurans, and polychlorinated biphenyls in maternal blood and those in breast milk. <i>Chemosphere</i> , 2010, 78, 185-192.	4.2	57
53	Determination of the aerodynamic roughness length of a bare soil field using Monin-Obukhov similarity theory. <i>J Agricultural Meteorology</i> , 2010, 66, 117-124.	0.8	0
54	Absorption and Transport of Water and Ions in Corn and Sunflower Plants Grown Under Saline Conditions. <i>J Agricultural Meteorology</i> , 2009, 65, 19-26.	0.8	13

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55	Water and salt movement in soil driven by crop roots: a controlled column study. <i>Biologia (Poland)</i> , 2009, 64, 474-477.	0.8	3
56	Identification of the composite parameters of the BBH-B model specifying the effects of biohydrologic processes on the water balance of crop fields. <i>Biologia (Poland)</i> , 2009, 64, 478-482.	0.8	1
57	Analysis of salts transport affected by root absorption capacity in surface " irrigated fields in the upper Yellow River basin. <i>Biologia (Poland)</i> , 2009, 64, 570-574.	0.8	7
58	Prenatal exposure to PCDDs/PCDFs and dioxin-like PCBs in relation to birth weight. <i>Environmental Research</i> , 2009, 109, 906-913.	3.7	97
59	Concentrations of polychlorinated biphenyls in blood of Yusho patients over 35 years after the incident. <i>Chemosphere</i> , 2009, 74, 902-909.	4.2	17
60	A characteristic feature of diurnal air temperature variation in the upper Yellow River valley in a semi-arid region. <i>J Agricultural Meteorology</i> , 2009, 65, 215-219.	0.8	3
61	<i>Water Resources and Use.</i> , 2009, , 25-72.		1
62	Determination of brominated flame retardants and brominated dioxins in fish collected from three regions of Japan. <i>Molecular Nutrition and Food Research</i> , 2008, 52, 273-283.	1.5	73
63	Congener-specific analysis of non-dioxin-like polychlorinated biphenyls in blood collected from 195 pregnant women in Sapporo City, Japan. <i>Chemosphere</i> , 2008, 73, 923-931.	4.2	14
64	Congener-specific analysis of non-dioxin-like polychlorinated biphenyls in blood collected from 127 elderly residents in Nakagawa Town, Fukuoka Prefecture, Japan. <i>Chemosphere</i> , 2008, 73, 865-872.	4.2	10
65	Experiments on the Control of Salinity and Sodidity in Surface : Irrigated Fields in the Upper Yellow River Valley (I). <i>Journal of the Faculty of Agriculture, Kyushu University</i> , 2008, 53, 251-256.	0.1	4
66	Experiments on the Control of Salinity and Sodidity in Surface : Irrigated Fields in the Upper Yellow River Valley (II). <i>Journal of the Faculty of Agriculture, Kyushu University</i> , 2008, 53, 257-263.	0.1	2
67	Measurement of Transpiration Streams in Plants. <i>Environmental Control in Biology</i> , 2007, 45, 223-239.	0.3	9
68	An Improvement in the BBH Model for Estimating Evapotranspiration from Cornfields in the Upper Yellow River. <i>J Agricultural Meteorology</i> , 2007, 63, 1-10.	0.8	4
69	Analyses of Crop Coefficients and Water Balace in an Irrigated Cornfield in the Upper Yellow River Basin. <i>J Agricultural Meteorology</i> , 2007, 63, 115-124.	0.8	6
70	Dynamics of water and ion transport driven by corn canopy in the Yellow River basin. <i>Biologia (Poland)</i> , 2006, 61, S275-S279.	0.8	12
71	Evaluation of canopy transpiration rate by applying a plant hormone "abscisic acid". <i>Biologia (Poland)</i> , 2006, 61, S315-S319.	0.8	11
72	A Method for <i>in Situ&/i>; Evaluation of Transpirational Water Loss from Crop Field by Applying Abscisic Acid to Plants. <i>J Agricultural Meteorology</i> , 2005, 60, 1117-1120.	0.8	6

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73	System for Evaluating Root Uptake Capacity in Relation to Phytoremediation. J Agricultural Meteorology, 2005, 60, 829-832.	0.8	4
74	High Temperature Effect on Root Absorption. J Agricultural Meteorology, 2005, 60, 809-812.	0.8	2
75	Stomatal Response to Evaporative Demand Depending on Air Humidity and Wind. Seibutsu Kankyo Chosetsu [Environment Control in Biology, 2004, 42, 323-329.	0.2	1