

Kenta Watanabe

List of Publications by Year in descending order

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55
papers

820
citations

623734

14
h-index

552781

26
g-index

55
all docs

55
docs citations

55
times ranked

983
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular cloning and functional characterization of two kinds of betaine-aldehyde dehydrogenase in betaine-accumulating mangrove <i>Avicennia marina</i> (Forsk.) Vierh. <i>Plant Molecular Biology</i> , 2001, 45, 353-363.	3.9	101
2	Water Status of Flower Buds and Leaves as Affected by High Temperature in Heat-Tolerant and Heat-Sensitive Cultivars of Snap Bean (<i>Phaseolus vulgaris</i> L.). <i>Plant Production Science</i> , 2003, 6, 24-27.	2.0	66
3	Photosynthetic response and nitrogen use efficiency of sugarcane under drought stress conditions with different nitrogen application levels. <i>Plant Production Science</i> , 2017, 20, 412-422.	2.0	60
4	The use of underwater high-voltage discharges to improve the efficiency of <i>Jatropha curcas</i> biodiesel production. <i>Biotechnology and Applied Biochemistry</i> , 2012, 59, 451-456.	3.1	51
5	Pressure Shockwaves to Enhance Oil Extraction from <i>Jatropha Curcas</i> L.. <i>Biotechnology and Biotechnological Equipment</i> , 2013, 27, 3654-3658.	1.3	51
6	Enzymatic hydrolysis enhanced by pressure shockwaves opening new possibilities in <i>Jatropha Curcas</i> L. processing. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 1650-1653.	3.2	49
7	Direct measurement of intercellular CO ₂ concentration in a gas-exchange system resolves overestimation using the standard method. <i>Journal of Experimental Botany</i> , 2018, 69, 1981-1991.	4.8	34
8	Direct Sugar Content Analysis for Whole Stalk Sugarcane Using a Portable near Infrared Instrument. <i>Journal of Near Infrared Spectroscopy</i> , 2013, 21, 281-287.	1.5	26
9	Effects of duration and combination of drought and flood conditions on leaf photosynthesis, growth and sugar content in sugarcane. <i>Plant Production Science</i> , 2016, 19, 427-437.	2.0	26
10	Polymethoxyflavones, Synephrine and Volatile Constitution of Peels of Citrus Fruit Grown in Okinawa. <i>Japanese Society for Horticultural Science</i> , 2011, 80, 214-224.	0.8	25
11	Effects of Different Types and Concentrations of Gelling Agents on the Physical and Chemical Properties of Media and the Growth of Banana (<i>Musa</i> spp.) <i>In Vitro</i> . <i>Plant Production Science</i> , 1999, 2, 138-145.	2.0	24
12	Photosynthesis Gas Exchange System with Internal CO ₂ Directly Measured. <i>Environmental Control in Biology</i> , 2011, 49, 193-207.	0.7	21
13	Cuticle Affects Calculations of Internal CO ₂ in Leaves Closing Their Stomata. <i>Plant and Cell Physiology</i> , 2015, 56, 1900-1908.	3.1	21
14	Effects of Superabsorbent Polymer on Soil Water Content and Sugarcane Germination and Early Growth in Sandy Soil Conditions. <i>Sugar Tech</i> , 2019, 21, 444-450.	1.8	16
15	Diurnal regulation of photosynthesis in <i>Jatropha curcas</i> under drought during summer in a semi-arid region. <i>Biomass and Bioenergy</i> , 2014, 67, 279-287.	5.7	15
16	Field Performance of <i>In vitro</i> -propagated and Sucker-derived Plants of Banana (<i>Musa</i> spp.). <i>Plant Production Science</i> , 2000, 3, 124-128.	2.0	14
17	Effects of Potassium Chloride and Potassium Sulfate on Sucrose Concentration in Sugarcane Juice Under Pot Conditions. <i>Sugar Tech</i> , 2016, 18, 258-265.	1.8	14
18	Relationships between nutrients and sucrose concentrations in sugarcane juice and use of juice analysis for nutrient diagnosis in Japan. <i>Plant Production Science</i> , 2016, 19, 215-222.	2.0	13

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19	Leaf Photosynthesis Response to Change of Soil Moisture Content in Sugarcane. Sugar Tech, 2019, 21, 949-958.	1.8	13
20	Environmental evaluation with greenhouse gas emissions and absorption based on life cycle assessment for a Jatropha cultivation system in frost- and drought-prone regions of Botswana. Biomass and Bioenergy, 2018, 110, 33-40.	5.7	12
21	Dynamic metabolic changes during fruit maturation in Jatropha curcas L.. Plant Biotechnology, 2012, 29, 175-178.	1.0	12
22	Effects of Drought Stress at Early Growth Stage on Response of Sugarcane to Different Nitrogen Application. Sugar Tech, 2018, 20, 420-430.	1.8	11
23	Effects of Various Carbon Sources and Their Combinations on in vitro Growth and Photosynthesis of Banana Plantlets. Plant Production Science, 2000, 3, 392-397.	2.0	9
24	Effects of High Night Temperature on Crassulacean Acid Metabolism (CAM) Photosynthesis of Kalanchoe pinnata and Ananas comosus. Plant Production Science, 2006, 9, 10-19.	2.0	9
25	Responses of growth, photosynthesis, and associated components to hypoxia at different light intensities in red leaf lettuce. Scientia Horticulturae, 2015, 193, 330-336.	3.6	9
26	A System for the Measurement of Vertical Gradients of CO ₂ , H ₂ O and Air Temperature within and above the Canopy of Plant. Plant Production Science, 2009, 12, 139-149.	2.0	8
27	Polyphenol Production in <i>Peucedanum japonicum</i> Thunb. varies with Soil Type and Growth Stage. Horticulture Journal, 2018, 87, 382-388.	0.8	8
28	Photosynthetic gas exchange characteristics in <i>Jatropha curcas</i> L.. Plant Biotechnology, 2012, 29, 155-162.	1.0	7
29	Effects of Vertical Gradient of Leaf Nitrogen Content on Canopy Photosynthesis in Tall and Dwarf Cultivars of Sorghum. Plant Production Science, 2015, 18, 336-343.	2.0	7
30	Flowering pattern of biodiesel plant Jatropha in frost- and drought-prone regions of Botswana. International Journal of Green Energy, 2017, 14, 908-915.	3.8	7
31	Tracing Photosynthetic Response Curves with Internal CO ₂ Measured Directly. Environmental Control in Biology, 2015, 53, 27-34.	0.7	7
32	Eclipse Effects on CO ₂ Profile within and above Sorghum Canopy. Plant Production Science, 2010, 13, 338-346.	2.0	6
33	Effects of Different Kinds of Potassium and Chloride Salts on Sugarcane Quality and Photosynthesis. Sugar Tech, 2017, 19, 378-385.	1.8	6
34	Use of Carbonized Fallen Leaves of Jatropha Curcas L. as a Soil Conditioner for Acidic and Undernourished Soil. Agronomy, 2019, 9, 236.	3.0	6
35	Relationship Between the Development of the Root System and Initial Growth of Sugarcane. Japanese Journal of Crop Science, 2009, 78, 356-362.	0.2	6
36	Effects of Vapour Pressure Difference on CO ₂ Assimilation Rate, Leaf Conductance and Water Use Efficiency in Grass Species. Journal of the Faculty of Agriculture, Kyushu University, 1987, 31, 1-10.	0.2	6

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37	Temporal and Vertical Variations in Photosynthetic Drivers in Mangrove Canopies, Okinawa, Japan. <i>Plant Production Science</i> , 2009, 12, 336-340.	2.0	5
38	Changes in Agronomic and Physiological Traits of Sugarcane Grown with Saline Irrigation Water. <i>Agronomy</i> , 2020, 10, 722.	3.0	5
39	Potential Evapotranspiration and Crop Coefficient Estimates for Sugarcane in Okinawa. <i>J Agricultural Meteorology</i> , 2005, 60, 573-576.	1.5	5
40	Fundamental Study on Water Stress Detection in Sugarcane Using Thermal Image Combined with Photosynthesis Measurement Under a Greenhouse Condition. <i>Sugar Tech</i> , 2022, 24, 1382-1390.	1.8	4
41	Changes in photosynthesis, growth, and sugar content of commercial sugarcane cultivars and <i>Erianthus</i> under flood conditions. <i>Plant Production Science</i> , 2017, 20, 126-135.	2.0	3
42	Plasticity of Root Architecture Under Mixed Culture and Tiller Regulation in Sugarcane. <i>Sugar Tech</i> , 2018, 20, 509-517.	1.8	3
43	Effects of Long-term Exposure to Different O ₂ Concentrations on Growth and Phytochemical Content in Red Leaf Lettuce. <i>Environmental Control in Biology</i> , 2015, 53, 117-122.	0.7	3
44	Application of FT-NIR spectroscopy to the evaluation of compost quality. <i>Engineering in Agriculture, Environment and Food</i> , 2008, 1, 51-56.	0.5	2
45	A new application of bagasse char as a solar energy absorption and accumulation material. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2012, 103, 31-38.	0.3	2
46	Sensory and Chemical Analyses of Non-centrifugal Cane Sugar for its Production in Thailand. <i>Sugar Tech</i> , 2019, 21, 686-690.	1.8	2
47	Regulation of Photosynthesis during the Light Period in CAM Plants. Evaluation by a Gas-Phase O ₂ Electrode and a Compensating Infrared CO ₂ Analysis System.. <i>Seibutsu Kankyo Chosetsu [Environment Control in Biology</i> , 2002, 40, 355-364.	0.2	2
48	Non-destructive Estimation of Water Status of Sugarcane Leaf Using Spectral Reflectance Measurement. <i>J Agricultural Meteorology</i> , 2005, 60, 569-572.	1.5	2
49	Whole-plant and Single-leaf Photosynthesis of Strawberry under Various Environmental Conditions. <i>Environmental Control in Biology</i> , 2021, 59, 173-180.	0.7	2
50	Effects of Mixed Planting of Horizontal- and Erect-Leafed Varieties on Canopy Light Use and Growth in Sugarcane. <i>Sugar Tech</i> , 2019, 21, 596-604.	1.8	1
51	Responses of leaf gas exchange rate to acute soil drying in <i>Jatropha curcas</i> L. <i>Plant Production Science</i> , 2020, 23, 333-342.	2.0	1
52	Heterosis in Temperature Responses of Photosynthetic Characters in F1 Hybrid Rice. <i>Environmental Control in Biology</i> , 2005, 43, 193-200.	0.7	1
53	Elevated CO ₂ and C ₃ , C ₄ Photosynthesis.. <i>Seibutsu Kankyo Chosetsu [Environment Control in Biology</i> , 1996, 34, 3-9.	0.2	1
54	Effect of Phosphorus Absorption Enhanced by Application of Bagasse Vinegar on the Growth and Nutrient Uptake in Sugarcane. <i>Japanese Journal of Crop Science</i> , 2016, 85, 309-315.	0.2	0

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55	Mechanical properties of charcoal from sewage sludge as geo-material. Japanese Geotechnical Journal, 2013, 8, 379-390.	0.1	0