Yoshio Inoue

List of Publications by Year
in descending order

67 papers	3,065 citations	257450 24 h-index	161849 54 g-index
67 all docs	67 docs citations	67 times ranked	3742 citing authors

#	Article	IF	Citations
1	Biochar amendment techniques for upland rice production in Northern Laos. Field Crops Research, 2009, 111, 81-84.	5.1	795
2	The photochemical reflectance index (PRI) and the remote sensing of leaf, canopy and ecosystem radiation use efficienciesA review and meta-analysis. Remote Sensing of Environment, 2011, 115, 281-297.	11.0	509
3	Diagnostic mapping of canopy nitrogen content in rice based on hyperspectral measurements. Remote Sensing of Environment, 2012, 126, 210-221.	11.0	227
4	Capability of C-band backscattering coefficients from high-resolution satellite SAR sensors to assess biophysical variables in paddy rice. Remote Sensing of Environment, 2014, 140, 257-266.	11.0	140
5	Simple and robust methods for remote sensing of canopy chlorophyll content: a comparative analysis of hyperspectral data for different types of vegetation. Plant, Cell and Environment, 2016, 39, 2609-2623.	5.7	109
6	Estimating forage biomass and quality in a mixed sown pasture based on partial least squares regression with waveband selection. Grassland Science, 2008, 54, 131-145.	1.1	92
7	Non-destructive Estimation of Water Status of Intact Crop Leaves Based on Spectral Reflectance Measurements.. Japanese Journal of Crop Science, 1993, 62, 462-469.	0.2	91
8	Remote estimation of leaf transpiration rate and stomatal resistance based on infrared thermometry. Agricultural and Forest Meteorology, 1990, 51, 21-33.	4.8	90
9	Analysis of Spectral Measurements in Paddy Field for Predicting Rice Growth and Yield Based on a Simple Crop Simulation Model. Plant Production Science, 1998, 1, 269-279.	2.0	74
10	›Synergy of Remote Sensing and Modeling for Estimating Ecophysiological Processes in Plant Production. Plant Production Science, 2003, 6, 3-16.	2.0	67
11	Analysis of Airborne Optical and Thermal Imagery for Detection of Water Stress Symptoms. Remote Sensing, 2018, 10, 1139.	4.0	64
12	Testing genetic algorithm as a tool to select relevant wavebands from field hyperspectral data for estimating pasture mass and quality in a mixed sown pasture using partial least squares regression. Grassland Science, 2010, 56, 205-216.	1.1	55
13	The Function of Remote Sensing in Support of Environmental Policy. Remote Sensing, 2010, 2, 1731-1750.	4.0	48
14	Relationship between X-band backscattering coefficients from high-resolution satellite SAR and biophysical variables in paddy rice. Remote Sensing Letters, 2013, 4, 288-295.	1.4	47
15	Satellite- and drone-based remote sensing of crops and soils for smart farming â€“ a review. Soil Science and Plant Nutrition, 2020, 66, 798-810.	1.9	47
16	The Impact of Sunlight Conditions on the Consistency of Vegetation Indices in Croplandsâ€"Effective Usage of Vegetation Indices from Continuous Ground-Based Spectral Measurements. Remote Sensing, 2015, 7, 14079-14098.	4.0	44
17	Analysis of Land use and Land Cover Changes in the Coastal Area of Bangladesh using Landsat Imagery. Land Degradation and Development, 2016, 27, 899-909.	3.9	40
18	Potential of X-Band Images from High-Resolution Satellite SAR Sensors to Assess Growth and Yield in Paddy Rice. Remote Sensing, 2014, 6, 5995-6019.	4.0	34

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19	Remote detection of physiological depression in crop plants with infrared thermal imagery.. Japanese Journal of Crop Science, 1990, 59, 762-768.	0.2	32
20	Administration of Monoclonal Antibodies against Vascular Cell Adhesion Molecule-1/Very Late Antigen-4 Abrogates Predisposing Autoimmune Diabetes in NOD Mice. Cellular Immunology, 1995, 165, 193-201.	3.0	31
21	Derivation of canopy light absorption coefficient from reflectance spectra. Remote Sensing of Environment, 2019, 231, 111276.	11.0	31
22	Predicting chronosequential changes in carbon stocks of pachymorph bamboo communities in slash-and-burn agricultural fallow, northern Lao People's Democratic Republic. Journal of Forest Research, 2007, 12, 371-383.	1.4	29
23	Evaluating plant photosynthetic traits via absorption coefficient in the photosynthetically active radiation region. Remote Sensing of Environment, 2021, 258, 112401.	11.0	29
24	Remote and Real-Time Sensing of Canopy Transpiration and Conductance. Comparison of Remote and Stem Flow Gauge Methods in Soybean Canopies as Affected by Soil Water Status.. Japanese Journal of Crop Science, 1994, 63, 664-670.	0.2	25
25	Field radiometer with canopy pasture probe as a potential tool to estimate and map pasture biomass and mineral components: A case study in the Lake Taupo catchment, New Zealand. New Zealand Journal of Agricultural Research, 2009, 52, 417-434.	1.6	24
26	Yield response of indica and tropical japonica genotypes to soil fertility conditions under rainfed uplands in northern Laos. Field Crops Research, 2009, 112, 141-148.	5.1	22
27	Detecting Phenophases of Subarctic Shrub Canopies by Using Automated Reflectance Measurements. Remote Sensing of Environment, 1999, 67, 160-180.	11.0	21
28	Radical additions of alcohols to esters of fumaric and maleic acids. Journal of Organic Chemistry, 1975, 40, 628-632.	3.2	20
29	Prototype time-domain reflectometry probes for measurement of moisture content near the soil surface for applications to "on-the-move" measurements. Agricultural Water Management, 2001, 50, 41-52.	5.6	15
30	Detecting Water Stress in Differentially-irrigated Tomato Plants with Infrared Thermometry for Cultivation of High-Brix Fruits.. J Agricultural Meteorology, 1997, 53, 191-199.	1.5	15
31	Preface: Recent Advances in Remote Sensing for Crop Growth Monitoring. Remote Sensing, 2016, 8, 116.	4.0	12
32	Spectral Estimation of Radiation Absorptance and Leaf Area Index in Corn Canopies as Affected by Canopy Architecture and Growth Stage.. Japanese Journal of Crop Science, 1991, 60, 578-580.	0.2	12
33	Predicting Bacterial Wilt Disease of Tomato Plants using Remotely Sensed Thermal Imagery. J Agricultural Meteorology, 2005, 61, 153-164.	1.5	11
34	Remote-monitoring of function and state of crop community. I. Analysis of thermal image of crop canopy.. Japanese Journal of Crop Science, 1986, 55, 261-268.	0.2	10
35	Practicalities of Non-Destructive Methodologies in Monitoring Anthropogenic Greenhouse Gas Emissions from Tropical Forests under the Influence of Human Intervention. Japan Agricultural Research Quarterly, 2011, 45, 233-242.	0.4	10
36	<i>FluxPro</i> as a realtime monitoring and surveilling system for eddy covariance flux measurement. J Agricultural Meteorology, 2015, 71, 32-50.	1.5	10

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37	Drone-Based Optical, Thermal, and 3d Sensing for Diagnostic Information in Smart Farming â€" Systems and Algorithms â€". , 2019, , .		10
38	Hyperspectral assessment of soil fertility in farm fields in Fukushima decontaminated after the radioactive fallout. Soil Science and Plant Nutrition, 2020, 66, 820-827.	1.9	10
39	Supercritical CO_2 fluid extraction of crystal water from trehalose dihydrate. Efficient production of form II (TÎ±) phase. Carbohydrate Research, 2002, 337, 1729-1735.	2.3	9
40	Influences of extractable soil water and vapor pressure deficit on transpiration and stomatal resistance in differentially irrigated wheat.. Japanese Journal of Crop Science, 1989, 58, 430-437.	0.2	8
41	Waveband selection using a phased regression with a bootstrap procedure for estimating legume content in a mixed sown pasture. Grassland Science, 2011, 57, 81-93.	1.1	7
42	An insight into spectral composition of light available for photosynthesis via remotely assessed absorption coefficient at leaf and canopy levels. Photosynthesis Research, 2022, 151, 47-60.	2.9	7
43	Stomatal behavior and relationship between photosynthesis and transpiration in field-grown cotton as affected by CO_2 enrichment.. Japanese Journal of Crop Science, 1990, 59, 510-517.	0.2	7
44	Arterio-venous fistula formation after hand replantation. The Japanese Journal of Surgery, 1983, 13, 207-210.	0.2	6
45	Remote-monitoring of the physiological-ecological status of crops. III. Estimating remotely the transpiration in corn canopy by means of multi-sensing of infrared canopy temperature and micrometeorological data.. Japanese Journal of Crop Science, 1987, 56, 337-344.	0.2	6
46	Indigenous knowledge on soil classification of ethnic groups in Luang Prabang province of the Lao PDR. Journal of Mountain Science, 2006, 3, 247-258.	2.0	6
47	Synoptic assessment of environmental impact of agricultural management: a case study on nitrogen fertiliser impact on groundwater quality, using a fine-scale geoinformation system. International Journal of Environmental Studies, 2012, 69, 443-460.	1.6	6
48	Estimating Spatial Distribution of Plant Growth in a Soybean Field Based on Remotely-Sensed Spectral Imagery Measured with a Balloon System.. Japanese Journal of Crop Science, 1995, 64, 156-158.	0.2	6
49	Remote and Non-Destructive Sensing for Precision Crop and Field Managements. I. Remote sensing method as a basis for information-based crop management. Potential and the state of the art.. Japanese Journal of Crop Science, 1997, 66, 335-344.	0.2	6
50	Investigating Error Sources in Remote Sensing of Protein Content of Brown Rice Towards Operational Applications on a Regional Scale. Japanese Journal of Crop Science, 2012, 81, 317-331.	0.2	6
51	Uncertainty in the evaluation of photosynthetic canopy traits using the green leaf area index. Agricultural and Forest Meteorology, 2022, 320, 108955.	4.8	6
52	Increase in the apparent sensitivity of HeLa cells on a membrane filter to ultrviolet radiation.. Journal of Radiation Research, 1983, 24, 339-344.	1.6	4
53	Remote and Non-Destructive Sensing for Precision Crop and Field Management. II. Prospect of remote and non-destructive sensing in precision crop management.. Japanese Journal of Crop Science, 1997, 66, 511-523.	0.2	4
54	Remote-monitoring of the physiological-ecological status of crops. IV. Quantitative relationship between photosynthetic rate and transpiration rate per vapor pressure deficit for corn and soybean under field conditions.. Japanese Journal of Crop Science, 1987, 56, 474-481.	0.2	4

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55	Distinctive Response of Photosynthetic Rate and Water Use Efficiency in Three Soybean Varieties to Waterlogging and Drought-stress.. Japanese Journal of Crop Science, 1993, 62, 638-640.	0.2	3
56	Remote Sensing of Potential and Actual Daily Transpiration of Plant Canopies Based on Spectral Reflectance and Infrared Thermal Measurements. Concept with Preliminary Test.. J Agricultural Meteorology, 1994, 49, 237-246.	1.5	3
57	Monitoring spring flush of pastures using NOAA AVHRR-based NDVIs coupled with the land cover information derived from spaceborne SAR data.. Journal of the Japan Society of Photogrammetry and Remote Sensing, 2001, 40, 55-67.	0.0	2
58	Remote-monitoring of physiological-ecological status of crops. II Corn canopy temperature and its relations with climatic factors.. Japanese Journal of Crop Science, 1987, 56, 30-37.	0.2	2
59	Chapter 13 Methods of Estimating Plant Productivity and CO2 Flux in Agro-Ecosystems â€" Liking Measurements, Process Models, and Remotely Sensed Information. Elsevier Oceanography Series, 2007, 73, 295-502.	0.1	1
60	Relationships between the Distribution of Nitrogen and Development and Absorbing Parts of Root System in a Rice Plant. Japanese Journal of Crop Science, 1982, 51, 492-499.	0.2	1
61	Spectral Reflectance of Full-Ripening Rice Canopies as Affected by Amount of Ears.. Japanese Journal of Crop Science, 1996, 65, 549-550.	0.2	1
62	Estimating Physiological and Ecological Status of Crop Plants Based on Remote Sensing. Japanese Journal of Crop Science, 1995, 64, 212-218.	0.2	1
63	Assessing Crop Productivity in Decontaminated Farmland in Fukushima Using Micro-Satellite VenÎ¼s and Hyperspectral Sensing. , 2020, , .		1
64	Lethal High Temperatures of Onion Thrips, Thrips tabaci Lindeman (Thysanoptera: Thripidae), and Control of the Thrips with Solar Radiation by Covering the Ground with Film. Japanese Journal of Applied Entomology and Zoology, 2010, 54, 71-76.	0.1	0
65	Synergy of Remote Sensing and Biophysical Process-based Modeling for Estimating Dynamics of CO<sub>2</sub> Flux in Agro-ecosystems. J Agricultural Meteorology, 2005, 60, 561-564.	1.5	0
66	Remote-monitoring of the physiological-ecological status of crops. V. Texture analysis of canopy reflectance based on optical density in photographs and remote estimation of leaf chlorophyll concentration by spectral reflectances.. Japanese Journal of Crop Science, 1988, 57, 105-111.	0.2	0
67	Hyperspectral Data Classification and Regression Using Wavelet Transform. , 2020, , .		0