

Yoshio Inoue

List of Publications by Year in descending order

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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	An insight into spectral composition of light available for photosynthesis via remotely assessed absorption coefficient at leaf and canopy levels. <i>Photosynthesis Research</i> , 2022, 151, 47-60.	2.9	7
2	Uncertainty in the evaluation of photosynthetic canopy traits using the green leaf area index. <i>Agricultural and Forest Meteorology</i> , 2022, 320, 108955.	4.8	6
3	Evaluating plant photosynthetic traits via absorption coefficient in the photosynthetically active radiation region. <i>Remote Sensing of Environment</i> , 2021, 258, 112401.	11.0	29
4	Satellite- and drone-based remote sensing of crops and soils for smart farming – a review. <i>Soil Science and Plant Nutrition</i> , 2020, 66, 798-810.	1.9	47
5	Hyperspectral assessment of soil fertility in farm fields in Fukushima decontaminated after the radioactive fallout. <i>Soil Science and Plant Nutrition</i> , 2020, 66, 820-827.	1.9	10
6	Assessing Crop Productivity in Decontaminated Farmland in Fukushima Using Micro-Satellite Venüs and Hyperspectral Sensing. , 2020, , .		1
7	Hyperspectral Data Classification and Regression Using Wavelet Transform. , 2020, , .		0
8	Derivation of canopy light absorption coefficient from reflectance spectra. <i>Remote Sensing of Environment</i> , 2019, 231, 111276.	11.0	31
9	Drone-Based Optical, Thermal, and 3d Sensing for Diagnostic Information in Smart Farming – Systems and Algorithms –. , 2019, , .		10
10	Analysis of Airborne Optical and Thermal Imagery for Detection of Water Stress Symptoms. <i>Remote Sensing</i> , 2018, 10, 1139.	4.0	64
11	Preface: Recent Advances in Remote Sensing for Crop Growth Monitoring. <i>Remote Sensing</i> , 2016, 8, 116.	4.0	12
12	Simple and robust methods for remote sensing of canopy chlorophyll content: a comparative analysis of hyperspectral data for different types of vegetation. <i>Plant, Cell and Environment</i> , 2016, 39, 2609-2623.	5.7	109
13	Analysis of Land use and Land Cover Changes in the Coastal Area of Bangladesh using Landsat Imagery. <i>Land Degradation and Development</i> , 2016, 27, 899-909.	3.9	40
14	<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
15	The Impact of Sunlight Conditions on the Consistency of Vegetation Indices in Croplands – Effective Usage of Vegetation Indices from Continuous Ground-Based Spectral Measurements. <i>Remote Sensing</i> , 2015, 7, 14079-14098.	4.0	44
16	Potential of X-Band Images from High-Resolution Satellite SAR Sensors to Assess Growth and Yield in Paddy Rice. <i>Remote Sensing</i> , 2014, 6, 5995-6019.	4.0	34
17	Capability of C-band backscattering coefficients from high-resolution satellite SAR sensors to assess biophysical variables in paddy rice. <i>Remote Sensing of Environment</i> , 2014, 140, 257-266.	11.0	140
18	Relationship between X-band backscattering coefficients from high-resolution satellite SAR and biophysical variables in paddy rice. <i>Remote Sensing Letters</i> , 2013, 4, 288-295.	1.4	47

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19	Synoptic assessment of environmental impact of agricultural management: a case study on nitrogen fertiliser impact on groundwater quality, using a fine-scale geoinformation system. <i>International Journal of Environmental Studies</i> , 2012, 69, 443-460.	1.6	6
20	Diagnostic mapping of canopy nitrogen content in rice based on hyperspectral measurements. <i>Remote Sensing of Environment</i> , 2012, 126, 210-221.	11.0	227
21	Investigating Error Sources in Remote Sensing of Protein Content of Brown Rice Towards Operational Applications on a Regional Scale. <i>Japanese Journal of Crop Science</i> , 2012, 81, 317-331.	0.2	6
22	Practicalities of Non-Destructive Methodologies in Monitoring Anthropogenic Greenhouse Gas Emissions from Tropical Forests under the Influence of Human Intervention. <i>Japan Agricultural Research Quarterly</i> , 2011, 45, 233-242.	0.4	10
23	Waveband selection using a phased regression with a bootstrap procedure for estimating legume content in a mixed sown pasture. <i>Grassland Science</i> , 2011, 57, 81-93.	1.1	7
24	The photochemical reflectance index (PRI) and the remote sensing of leaf, canopy and ecosystem radiation use efficiencies A review and meta-analysis. <i>Remote Sensing of Environment</i> , 2011, 115, 281-297.	11.0	509
25	Lethal High Temperatures of Onion Thrips, <i>Thrips tabaci</i> Lindeman (Thysanoptera: Thripidae), and Control of the Thrips with Solar Radiation by Covering the Ground with Film. <i>Japanese Journal of Applied Entomology and Zoology</i> , 2010, 54, 71-76.	0.1	0
26	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. <i>Grassland Science</i> , 2010, 56, 205-216.	1.1	55
27	The Function of Remote Sensing in Support of Environmental Policy. <i>Remote Sensing</i> , 2010, 2, 1731-1750.	4.0	48
28	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. <i>New Zealand Journal of Agricultural Research</i> , 2009, 52, 417-434.	1.6	24
29	Biochar amendment techniques for upland rice production in Northern Laos. <i>Field Crops Research</i> , 2009, 111, 81-84.	5.1	795
30	Yield response of indica and tropical japonica genotypes to soil fertility conditions under rainfed uplands in northern Laos. <i>Field Crops Research</i> , 2009, 112, 141-148.	5.1	22
31	Estimating forage biomass and quality in a mixed sown pasture based on partial least squares regression with waveband selection. <i>Grassland Science</i> , 2008, 54, 131-145.	1.1	92
32	Chapter 13 Methods of Estimating Plant Productivity and CO ₂ Flux in Agro-Ecosystems – Liking Measurements, Process Models, and Remotely Sensed Information. <i>Elsevier Oceanography Series</i> , 2007, 73, 295-502.	0.1	1
33	Predicting chronosequential changes in carbon stocks of pachymorph bamboo communities in slash-and-burn agricultural fallow, northern Lao People's Democratic Republic. <i>Journal of Forest Research</i> , 2007, 12, 371-383.	1.4	29
34	Indigenous knowledge on soil classification of ethnic groups in Luang Prabang province of the Lao PDR. <i>Journal of Mountain Science</i> , 2006, 3, 247-258.	2.0	6
35	Predicting Bacterial Wilt Disease of Tomato Plants using Remotely Sensed Thermal Imagery. <i>J Agricultural Meteorology</i> , 2005, 61, 153-164.	1.5	11
36	Synergy of Remote Sensing and Biophysical Process-based Modeling for Estimating Dynamics of CO ₂ Flux in Agro-ecosystems. <i>J Agricultural Meteorology</i> , 2005, 60, 561-564.	1.5	0

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37	>Synergy of Remote Sensing and Modeling for Estimating Ecophysiological Processes in Plant Production. <i>Plant Production Science</i> , 2003, 6, 3-16.	2.0	67
38	Supercritical CO ₂ fluid extraction of crystal water from trehalose dihydrate. Efficient production of form II (T ₁ ±) phase. <i>Carbohydrate Research</i> , 2002, 337, 1729-1735.	2.3	9
39	Prototype time-domain reflectometry probes for measurement of moisture content near the soil surface for applications to "on-the-move" measurements. <i>Agricultural Water Management</i> , 2001, 50, 41-52.	5.6	15
40	Monitoring spring flush of pastures using NOAA AVHRR-based NDVIs coupled with the land cover information derived from spaceborne SAR data.. <i>Journal of the Japan Society of Photogrammetry and Remote Sensing</i> , 2001, 40, 55-67.	0.0	2
41	Detecting Phenophases of Subarctic Shrub Canopies by Using Automated Reflectance Measurements. <i>Remote Sensing of Environment</i> , 1999, 67, 160-180.	11.0	21
42	Analysis of Spectral Measurements in Paddy Field for Predicting Rice Growth and Yield Based on a Simple Crop Simulation Model. <i>Plant Production Science</i> , 1998, 1, 269-279.	2.0	74
43	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.. <i>Japanese Journal of Crop Science</i> , 1997, 66, 335-344.	0.2	6
44	Remote and Non-Destructive Sensing for Precision Crop and Field Management. II. Prospect of remote and non-destructive sensing in precision crop management.. <i>Japanese Journal of Crop Science</i> , 1997, 66, 511-523.	0.2	4
45	Detecting Water Stress in Differentially-irrigated Tomato Plants with Infrared Thermometry for Cultivation of High-Brix Fruits.. <i>J Agricultural Meteorology</i> , 1997, 53, 191-199.	1.5	15
46	Spectral Reflectance of Full-Ripening Rice Canopies as Affected by Amount of Ears.. <i>Japanese Journal of Crop Science</i> , 1996, 65, 549-550.	0.2	1
47	Administration of Monoclonal Antibodies against Vascular Cell Adhesion Molecule-1/Very Late Antigen-4 Abrogates Predisposing Autoimmune Diabetes in NOD Mice. <i>Cellular Immunology</i> , 1995, 165, 193-201.	3.0	31
48	Estimating Spatial Distribution of Plant Growth in a Soybean Field Based on Remotely-Sensed Spectral Imagery Measured with a Balloon System.. <i>Japanese Journal of Crop Science</i> , 1995, 64, 156-158.	0.2	6
49	Estimating Physiological and Ecological Status of Crop Plants Based on Remote Sensing. <i>Japanese Journal of Crop Science</i> , 1995, 64, 212-218.	0.2	1
50	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.. <i>Japanese Journal of Crop Science</i> , 1994, 63, 664-670.	0.2	25
51	Remote Sensing of Potential and Actual Daily Transpiration of Plant Canopies Based on Spectral Reflectance and Infrared Thermal Measurements. Concept with Preliminary Test.. <i>J Agricultural Meteorology</i> , 1994, 49, 237-246.	1.5	3
52	Distinctive Response of Photosynthetic Rate and Water Use Efficiency in Three Soybean Varieties to Waterlogging and Drought-stress.. <i>Japanese Journal of Crop Science</i> , 1993, 62, 638-640.	0.2	3
53	Non-destructive Estimation of Water Status of Intact Crop Leaves Based on Spectral Reflectance Measurements.. <i>Japanese Journal of Crop Science</i> , 1993, 62, 462-469.	0.2	91
54	Spectral Estimation of Radiation Absorptance and Leaf Area Index in Corn Canopies as Affected by Canopy Architecture and Growth Stage.. <i>Japanese Journal of Crop Science</i> , 1991, 60, 578-580.	0.2	12

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55	Remote estimation of leaf transpiration rate and stomatal resistance based on infrared thermometry. <i>Agricultural and Forest Meteorology</i> , 1990, 51, 21-33.	4.8	90
56	Stomatal behavior and relationship between photosynthesis and transpiration in field-grown cotton as affected by CO ₂ enrichment.. <i>Japanese Journal of Crop Science</i> , 1990, 59, 510-517.	0.2	7
57	Remote detection of physiological depression in crop plants with infrared thermal imagery.. <i>Japanese Journal of Crop Science</i> , 1990, 59, 762-768.	0.2	32
58	Influences of extractable soil water and vapor pressure deficit on transpiration and stomatal resistance in differentially irrigated wheat.. <i>Japanese Journal of Crop Science</i> , 1989, 58, 430-437.	0.2	8
59	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.. <i>Japanese Journal of Crop Science</i> , 1988, 57, 105-111.	0.2	0
60	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.. <i>Japanese Journal of Crop Science</i> , 1987, 56, 337-344.	0.2	6
61	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.. <i>Japanese Journal of Crop Science</i> , 1987, 56, 474-481.	0.2	4
62	Remote-monitoring of physiological-ecological status of crops. II Corn canopy temperature and its relations with climatic factors.. <i>Japanese Journal of Crop Science</i> , 1987, 56, 30-37.	0.2	2
63	Remote-monitoring of function and state of crop community. I. Analysis of thermal image of crop canopy.. <i>Japanese Journal of Crop Science</i> , 1986, 55, 261-268.	0.2	10
64	Arterio-venous fistula formation after hand replantation. <i>The Japanese Journal of Surgery</i> , 1983, 13, 207-210.	0.2	6
65	Increase in the apparent sensitivity of HeLa cells on a membrane filter to ultraviolet radiation.. <i>Journal of Radiation Research</i> , 1983, 24, 339-344.	1.6	4
66	Relationships between the Distribution of Nitrogen and Development and Absorbing Parts of Root System in a Rice Plant. <i>Japanese Journal of Crop Science</i> , 1982, 51, 492-499.	0.2	1
67	Radical additions of alcohols to esters of fumaric and maleic acids. <i>Journal of Organic Chemistry</i> , 1975, 40, 628-632.	3.2	20