

Shu Fukai

List of Publications by Year in descending order

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73
papers

1,908
citations

257101

24
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276539

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times ranked

1803
citing authors

#	ARTICLE	IF	CITATIONS
1	Phenotypic and genotypic analysis of drought-resistance traits for development of rice cultivars adapted to rainfed environments. <i>Field Crops Research</i> , 2008, 109, 1-23.	2.3	265
2	Improving efficiency of water use for irrigated rice in a semi-arid tropical environment. <i>Field Crops Research</i> , 1997, 52, 231-248.	2.3	162
3	Improving drought tolerance in rainfed lowland rice: An example from Thailand. <i>Agricultural Water Management</i> , 2006, 80, 225-240.	2.4	109
4	Increased productivity of rainfed lowland rice cropping systems of the Mekong region. <i>Crop and Pasture Science</i> , 2012, 63, 944.	0.7	73
5	Increasing Production of Rainfed Lowland Rice in Drought Prone Environments. <i>Plant Production Science</i> , 1998, 1, 75-82.	0.9	69
6	Growth and grain yield of contrasting rice cultivars grown under different conditions of water availability. <i>Field Crops Research</i> , 1995, 44, 139-150.	2.3	62
7	Molecular Breeding for Rainfed Lowland Rice in the Mekong Region. <i>Plant Production Science</i> , 2005, 8, 330-333.	0.9	61
8	Field Phenotyping Strategies and Breeding for Adaptation of Rice to Drought. <i>Frontiers in Physiology</i> , 2012, 3, 282.	1.3	53
9	Effects of Soil Clay Content on Water Balance and Productivity in Rainfed Lowland Rice Ecosystem in Northeast Thailand. <i>Plant Production Science</i> , 2007, 10, 232-241.	0.9	45
10	Lowland rice improvement in northern and northeast Thailand. <i>Field Crops Research</i> , 1998, 59, 99-108.	2.3	42
11	Drought resistance and soil water extraction of a perennial C4 grass: contributions of root and rhizome traits. <i>Functional Plant Biology</i> , 2014, 41, 505.	1.1	40
12	Effects of High-Temperature Fluidized Bed Drying and Tempering on Kernel Cracking and Milling Quality of Vietnamese Rice Varieties. <i>Drying Technology</i> , 2009, 27, 486-494.	1.7	39
13	Genotypic variation of iron partitioning in rice grain. <i>Journal of the Science of Food and Agriculture</i> , 2007, 87, 2049-2054.	1.7	38
14	Iron-fortified parboiled rice – A novel solution to high iron density in rice-based diets. <i>Food Chemistry</i> , 2008, 110, 390-398.	4.2	38
15	Genotypic variation in rice grown in low fertile soils and drought-prone, rainfed lowland environments. <i>Field Crops Research</i> , 1999, 64, 121-130.	2.3	36
16	Effects of straw mulch on mungbean yield in rice fields with strongly compacted soils. <i>Field Crops Research</i> , 2011, 124, 295-301.	2.3	34
17	Spatial Variations in Water Availability, Soil Fertility and Grain Yield in Rainfed Lowland Rice: A Case Study from Savannakhet Province, Lao PDR. <i>Plant Production Science</i> , 2011, 14, 184-195.	0.9	34
18	Vernalisation and photoperiod sensitivity in wheat: Impact on canopy development and yield components. <i>Field Crops Research</i> , 2017, 201, 108-121.	2.3	34

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19	Lowland rice improvement in northern and northeast Thailand. <i>Field Crops Research</i> , 1998, 59, 109-119.	2.3	32
20	Drought resistance of bermudagrass (<i>Cynodon</i> spp.) ecotypes collected from different climatic zones. <i>Environmental and Experimental Botany</i> , 2013, 85, 22-29.	2.0	30
21	Iron fortification and parboiled rice quality: appearance, cooking quality and sensory attributes. <i>Journal of the Science of Food and Agriculture</i> , 2009, 89, 2565-2571.	1.7	29
22	The bioavailability of iron fortified in whole grain parboiled rice. <i>Food Chemistry</i> , 2009, 112, 982-986.	4.2	29
23	Estimating Percolation and Lateral Water Flow on Sloping Land in Rainfed Lowland Rice Ecosystem. <i>Plant Production Science</i> , 2005, 8, 354-357.	0.9	27
24	Vernalisation and photoperiod sensitivity in wheat: The response of floret fertility and grain number is affected by vernalisation status. <i>Field Crops Research</i> , 2017, 203, 243-255.	2.3	27
25	Iron (Fe) bioavailability and the distribution of anti-Fe nutrition biochemicals in the unpolished, polished grain and bran fraction of five rice genotypes. <i>Journal of the Science of Food and Agriculture</i> , 2006, 86, 1209-1215.	1.7	24
26	Selecting for drought tolerance among Australian green couch grasses (<i>Cynodon</i> spp.). <i>Crop and Pasture Science</i> , 2009, 60, 1175.	0.7	24
27	Water use, water use efficiency and drought resistance among warm-season turfgrasses in shallow soil profiles. <i>Functional Plant Biology</i> , 2012, 39, 116.	1.1	22
28	X-ray photoelectron spectroscopic analysis of rice kernels and flours: Measurement of surface chemical composition. <i>Food Chemistry</i> , 2016, 212, 349-357.	4.2	21
29	Wet cultivation in lowland rice causing excess water problems for the subsequent non-rice crops in the Mekong region. <i>Field Crops Research</i> , 2013, 152, 57-64.	2.3	20
30	Research strategies for mechanised production of rice in transition from subsistence to commercial agriculture: a case study from Khammouan in Lao PDR. <i>Plant Production Science</i> , 2019, 22, 1-11.	0.9	18
31	Factors determining water use efficiency in aerobic rice. , 2022, 1, 24-40.		18
32	As the level of crop productivity increases: Is there a role for intercropping in smallholder agriculture. <i>Field Crops Research</i> , 2015, 180, 155-166.	2.3	17
33	Effect of Different Cooking Conditions on the Pasting Properties of Flours of Glutinous Rice Varieties from Lao People's Democratic Republic. <i>International Journal of Food Properties</i> , 2016, 19, 2026-2040.	1.3	17
34	Effect of alkali treatment on the milled grain surface protein and physicochemical properties of two contrasting rice varieties. <i>Journal of Cereal Science</i> , 2016, 72, 16-23.	1.8	17
35	Changes in physicochemical properties of rice in response to high-temperature fluidized bed drying and tempering. <i>Drying Technology</i> , 2019, 37, 331-340.	1.7	17
36	Effect of soaking medium on the physicochemical properties of parboiled glutinous rice of selected Laotian cultivars. <i>International Journal of Food Properties</i> , 2018, 21, 1896-1910.	1.3	16

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37	Key factors affecting Fe density in Fe-fortified-parboiled rice: Parboiling conditions, storage duration, external Fe-loading rate and genotypic differences. <i>Food Chemistry</i> , 2010, 123, 628-634.	4.2	13
38	Rice milling quality as affected by drying method and harvesting time during ripening in wet and dry seasons. <i>Plant Production Science</i> , 2019, 22, 98-106.	0.9	13
39	Genotypic variation in intrinsic transpiration efficiency correlates with sugarcane yield under rainfed and irrigated field conditions. <i>Physiologia Plantarum</i> , 2021, 172, 976-989.	2.6	13
40	Effect of Plot Size on Accuracy of Yield Estimation of Rainfed Lowland Rice Genotypes with Different Plant Heights and Grown under Different Soil Fertility Conditions. <i>Plant Production Science</i> , 2003, 6, 95-102.	0.9	12
41	Measurement of Glass-Rubber Transition Temperature of Rice by Thermal Mechanical Compression Test (TMCT). <i>International Journal of Food Properties</i> , 2010, 13, 176-183.	1.3	12
42	Changes in Cracking Behavior and Milling Quality of Selected Australian Rice Varieties Due to Postdrying Annealing and Subsequent Storage. <i>Drying Technology</i> , 2012, 30, 1831-1843.	1.7	12
43	Combine harvesting efficiency as affected by rice field size and other factors and its implication for adoption of combine contracting service. <i>Plant Production Science</i> , 2019, 22, 68-76.	0.9	12
44	Rainfall variability and its effects on growing period and grain yield for rainfed lowland rice under transplanting system in Northeast Thailand. <i>Plant Production Science</i> , 2020, 23, 48-59.	0.9	12
45	Stable and Novel Quantitative Trait Loci (QTL) Confer Narrow Root Cone Angle in an Aerobic Rice (<i>Oryza sativa</i> L.) Production System. <i>Rice</i> , 2021, 14, 28.	1.7	12
46	Effect of germination level on properties of flour paste and cooked brown rice texture of diverse varieties. <i>Journal of Cereal Science</i> , 2021, 102, 103345.	1.8	12
47	Identification of Nutrients Limiting Rice Growth in Soils of Northeast Thailand under Water-Limiting and Non-Limiting Conditions. <i>Plant Production Science</i> , 2000, 3, 417-421.	0.9	10
48	Temporal and spatial patterns of soil water extraction and drought resistance among genotypes of a perennial C4 grass. <i>Functional Plant Biology</i> , 2013, 40, 379.	1.1	10
49	Recent changes in rice production in rainfed lowland and irrigated ecosystems in Thailand. <i>Plant Production Science</i> , 2021, 24, 15-28.	0.9	10
50	Associations between drought resistance, regrowth and quality in a perennial C4 grass. <i>European Journal of Agronomy</i> , 2015, 65, 1-9.	1.9	9
51	Salinity tolerance among a large range of bermudagrasses (<i>Cynodon</i> spp.) relative to other halophytic and non-halophytic perennial C4 grasses. <i>Environmental and Experimental Botany</i> , 2018, 145, 121-129.	2.0	9
52	Importance of anther dehiscence for low-temperature tolerance in rice at the young microspore and flowering stages. <i>Crop and Pasture Science</i> , 2019, 70, 113.	0.7	9
53	HEAD RICE YIELD OF CROPS HARVESTED BY COMBINE AND HAND AT DIFFERENT RIPENING TIMES IN CAMBODIA. <i>Experimental Agriculture</i> , 2019, 55, 132-142.	0.4	9
54	Effect of starch modification in the whole white rice grains on physicochemical properties of two contrasting rice varieties. <i>Journal of Cereal Science</i> , 2018, 80, 143-149.	1.8	8

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55	<i>In situ</i> analysis of cooking properties of rice by thermal mechanical compression test method. International Journal of Food Properties, 2017, 20, 1174-1185.	1.3	6
56	A diagnostic on-farm survey of the potential of seed drill and transplanter for mechanised rice establishment in Central Laos and Southern Cambodia. Plant Production Science, 2019, 22, 12-22.	0.9	6
57	Effects of variety, early harvest, and germination on pasting properties and cooked grain texture of brown rice. Journal of Texture Studies, 2022, 53, 503-516.	1.1	6
58	Effects of three types of modified atmospheric packaging on the physicochemical properties of selected glutinous rice. Journal of Stored Products Research, 2018, 76, 85-95.	1.2	5
59	Comparative analysis of farmers engaged in participatory research to cope with climate change versus non-participants in Northeast Thailand. Plant Production Science, 2018, 21, 287-301.	0.9	5
60	Fissured grain and head rice yield of crops harvested manually or by combine at different ripening stages in Cambodia. Plant Production Science, 2019, 22, 88-97.	0.9	5
61	Factors Determining Genotypic Variation in the Speed of Rice Germination. Agronomy, 2021, 11, 1614.	1.3	5
62	QTL Validation and Development of SNP-Based High Throughput Molecular Markers Targeting a Genomic Region Conferring Narrow Root Cone Angle in Aerobic Rice Production Systems. Plants, 2021, 10, 2099.	1.6	5
63	Effects of introduction of combine harvester and flatbed dryer on milling quality of three glutinous rice varieties in Lao PDR. Plant Production Science, 2019, 22, 77-87.	0.9	4
64	Acetylation of intact white rice grains to alter the physicochemical properties. Journal of Cereal Science, 2020, 92, 102928.	1.8	4
65	MECHANISMS FOR WEAR TOLERANCE AMONG BERMUDAGRASS (CYNODON SPP.) GENOTYPES: CELL WALL COMPONENTS AND LEAF ANATOMY. Acta Horticulturae, 2015, , 843-849.	0.1	3
66	Limited contribution of water availability in genotype×environment interaction in sugarcane yield and yield components. Journal of Agronomy and Crop Science, 2020, 206, 665-678.	1.7	3
67	The Role of Irrigation in the Commercialisation of Rice Farming in Southern Cambodia. , 2020, , 261-289.		3
68	Drought resistance characters and variety development for rainfed lowland rice in Southeast Asia. , 2009, , 75-89.		2
69	Physiological Basis of Sprouting Potential in Bermudagrass. Agronomy Journal, 2017, 109, 1734-1742.	0.9	2
70	Quantitative trait loci (QTL) for low temperature tolerance at the young microspore stage in rice (<i>Oryza sativa</i> L.) in Australian breeding material. Breeding Science, 2022, , .	0.9	1
71	Evidence of salt secretion at the stem of <i>Melaleuca cuticularis</i> Labill.. Nature Precedings, 2008, , .	0.1	0
72	Effect of Early Harvest and Variety Difference on Grain Yield and Pasting Properties of Brown Rice. Crops, 2022, 2, 23-39.	0.6	0

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73	Genomic Regions and Floral Traits Contributing to Low Temperature Tolerance at Young Microspore Stage in a Rice (<i>Oryza sativa</i> L.) Recombinant Inbred Line Population of Sherpa/IRAT109. <i>Frontiers in Plant Science</i> , 2022, 13, 873677.	1.7	0