Shu Fukai

List of Publications by Year
in descending order

73 papers	1,908 citations	257101 24 h-index	276539 41 g-index
74 all docs	74 docs citations	74 times ranked	1803 citing authors

#	Article	IF	Citations
1	Effect of Early Harvest and Variety Difference on Grain Yield and Pasting Properties of Brown Rice. Crops, 2022, 2, 23-39.	0.6	0
2	Factors determining water use efficiency in aerobic rice. , 2022, 1, 24-40.		18
3	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
4	Genomic Regions and Floral Traits Contributing to Low Temperature Tolerance at Young Microspore Stage in a Rice (Oryza sativa L.) Recombinant Inbred Line Population of Sherpa/IRAT109. Frontiers in Plant Science, 2022, 13, 873677.	1.7	0
5	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
6	Recent changes in rice production in rainfed lowland and irrigated ecosystems in Thailand. Plant Production Science, 2021, 24, 15-28.	0.9	10
7	Genotypic variation in intrinsic transpiration efficiency correlates with sugarcane yield under rainfed and irrigated field conditions. Physiologia Plantarum, 2021, 172, 976-989.	2.6	13
8	Stable and Novel Quantitative Trait Loci (QTL) Confer Narrow Root Cone Angle in an Aerobic Rice (Oryza sativa L.) Production System. Rice, 2021, 14, 28.	1.7	12
9	Factors Determining Genotypic Variation in the Speed of Rice Germination. Agronomy, 2021, 11, 1614.	1.3	5
10	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
11	Effect of germination level on properties of flour paste and cooked brown rice texture of diverse varieties. Journal of Cereal Science, 2021, 102, 103345.	1.8	12
12	Rainfall variability and its effects on growing period and grain yield for rainfed lowland rice under transplanting system in Northeast Thailand. Plant Production Science, 2020, 23, 48-59.	0.9	12
13	Limited contribution of water availability in genotypeâ€byâ€environment interaction in sugarcane yield and yield components. Journal of Agronomy and Crop Science, 2020, 206, 665-678.	1.7	3
14	Acetylation of intact white rice grains to alter the physicochemical properties. Journal of Cereal Science, 2020, 92, 102928.	1.8	4
15	The Role of Irrigation in theÂCommercialisation of Rice Farming in Southern Cambodia. , 2020, , 261-289.		3
16	Importance of anther dehiscence for low-temperature tolerance in rice at the young microspore and flowering stages. Crop and Pasture Science, 2019, 70, 113.	0.7	9
17	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
18	Research strategies for mechanised production of rice in transition from subsistence to commercial agriculture: a case study from Khammouan in Lao PDR. Plant Production Science, 2019, 22, 1-11.	0.9	18

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19	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
20	Combine harvesting efficiency as affected by rice field size and other factors and its implication for adoption of combine contracting service. Plant Production Science, 2019, 22, 68-76.	0.9	12
21	Rice milling quality as affected by drying method and harvesting time during ripening in wet and dry seasons. Plant Production Science, 2019, 22, 98-106.	0.9	13
22	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
23	HEAD RICE YIELD OF CROPS HARVESTED BY COMBINE AND HAND AT DIFFERENT RIPENING TIMES IN CAMBODIA. Experimental Agriculture, 2019, 55, 132-142.	0.4	9
24	Changes in physicochemical properties of rice in response to high-temperature fluidized bed drying and tempering. Drying Technology, 2019, 37, 331-340.	1.7	17
25	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
26	Effect of starch modification in the whole white rice grains on physicochemical properties of two contrasting rice varieties. Journal of Cereal Science, 2018, 80, 143-149.	1.8	8
27	Salinity tolerance among a large range of bermudagrasses (Cynodon spp.) relative to other halophytic and non-halophytic perennial C4 grasses. Environmental and Experimental Botany, 2018, 145, 121-129.	2.0	9
28	Effect of soaking medium on the physicochemical properties of parboiled glutinous rice of selected Laotian cultivars. International Journal of Food Properties, 2018, 21, 1896-1910.	1.3	16
29	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
30	Vernalisation and photoperiod sensitivity in wheat: The response of floret fertility and grain number is affected by vernalisation status. Field Crops Research, 2017, 203, 243-255.	2.3	27
31	In situ analysis of cooking properties of rice by thermal mechanical compression test method. International Journal of Food Properties, 2017, 20, 1174-1185.	1.3	6
32	Physiological Basis of Sprouting Potential in Bermudagrass. Agronomy Journal, 2017, 109, 1734-1742.	0.9	2
33	Vernalisation and photoperiod sensitivity in wheat: Impact on canopy development and yield components. Field Crops Research, 2017, 201, 108-121.	2.3	34
34	Effect of Different Cooking Conditions on the Pasting Properties of Flours of Glutinous Rice Varieties from Lao Peopleâ€™s Democratic Republic. International Journal of Food Properties, 2016, 19, 2026-2040.	1.3	17
35	Effect of alkali treatment on the milled grain surface protein and physicochemical properties of two contrasting rice varieties. Journal of Cereal Science, 2016, 72, 16-23.	1.8	17
36	X-ray photoelectron spectroscopic analysis of rice kernels and flours: Measurement of surface chemical composition. Food Chemistry, 2016, 212, 349-357.	4.2	21

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37	MECHANISMS FOR WEAR TOLERANCE AMONG BERMUDAGRASS (CYNODON SPP.) GENOTYPES: CELL WALL COMPONENTS AND LEAF ANATOMY. Acta Horticulturae, 2015, , 843-849.	0.1	3
38	Associations between drought resistance, regrowth and quality in a perennial C4 grass. European Journal of Agronomy, 2015, 65, 1-9.	1.9	9
39	As the level of crop productivity increases: Is there a role for intercropping in smallholder agriculture. Field Crops Research, 2015, 180, 155-166.	2.3	17
40	Drought resistance and soil water extraction of a perennial C4 grass: contributions of root and rhizome traits. Functional Plant Biology, 2014, 41, 505.	1.1	40
41	Wet cultivation in lowland rice causing excess water problems for the subsequent non-rice crops in the Mekong region. Field Crops Research, 2013, 152, 57-64.	2.3	20
42	Drought resistance of bermudagrass (Cynodon spp.) ecotypes collected from different climatic zones. Environmental and Experimental Botany, 2013, 85, 22-29.	2.0	30
43	Temporal and spatial patterns of soil water extraction and drought resistance among genotypes of a perennial C4 grass. Functional Plant Biology, 2013, 40, 379.	1.1	10
44	Field Phenotyping Strategies and Breeding for Adaptation of Rice to Droughtâ€. Frontiers in Physiology, 2012, 3, 282.	1.3	53
45	Changes in Cracking Behavior and Milling Quality of Selected Australian Rice Varieties Due to Postdrying Annealing and Subsequent Storage. Drying Technology, 2012, 30, 1831-1843.	1.7	12
46	Water use, water use efficiency and drought resistance among warm-season turfgrasses in shallow soil profiles. Functional Plant Biology, 2012, 39, 116.	1.1	22
47	Increased productivity of rainfed lowland rice cropping systems of the Mekong region. Crop and Pasture Science, 2012, 63, 944.	0.7	73
48	Effects of straw mulch on mungbean yield in rice fields with strongly compacted soils. Field Crops Research, 2011, 124, 295-301.	2.3	34
49	Spatial Variations in Water Availability, Soil Fertility and Grain Yield in Rainfed Lowland Rice: A Case Study from Savannakhet Province, Lao PDR. Plant Production Science, 2011, 14, 184-195.	0.9	34
50	Key factors affecting Fe density in Fe-fortified-parboiled rice: Parboiling conditions, storage duration, external Fe-loading rate and genotypic differences. Food Chemistry, 2010, 123, 628-634.	4.2	13
51	Measurement of Glass-Rubber Transition Temperature of Rice by Thermal Mechanical Compression Test (TMCT). International Journal of Food Properties, 2010, 13, 176-183.	1.3	12
52	Selecting for drought tolerance among Australian green couch grasses (Cynodon spp.). Crop and Pasture Science, 2009, 60, 1175.	0.7	24
53	Iron fortification and parboiled rice quality: appearance, cooking quality and sensory attributes. Journal of the Science of Food and Agriculture, 2009, 89, 2565-2571.	1.7	29
54	The bioavailability of iron fortified in whole grain parboiled rice. Food Chemistry, 2009, 112, 982-986.	4.2	29

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55	Effects of High-Temperature Fluidized Bed Drying and Tempering on Kernel Cracking and Milling Quality of Vietnamese Rice Varieties. Drying Technology, 2009, 27, 486-494.	1.7	39
56	Drought resistance characters and variety development for rainfed lowland rice in Southeast Asia. , 2009, , 75-89.		2
57	Iron-fortified parboiled rice â€“ A novel solution to high iron density in rice-based diets. Food Chemistry, 2008, 110, 390-398.	4.2	38
58	Phenotypic and genotypic analysis of drought-resistance traits for development of rice cultivars adapted to rainfed environments. Field Crops Research, 2008, 109, 1-23.	2.3	265
59	Evidence of salt secretion at the stem of Melaleuca cuticularis Labill.. Nature Precedings, 2008, , .	0.1	0
60	Effects of Soil Clay Content on Water Balance and Productivity in Rainfed Lowland Rice Ecosystem in Northeast Thailand. Plant Production Science, 2007, 10, 232-241.	0.9	45
61	Genotypic variation of iron partitioning in rice grain. Journal of the Science of Food and Agriculture, 2007, 87, 2049-2054.	1.7	38
62	Improving drought tolerance in rainfed lowland rice: An example from Thailand. Agricultural Water Management, 2006, 80, 225-240.	2.4	109
63	Iron (Fe) bioavailability and the distribution of anti-Fe nutrition biochemicals in the unpolished, polished grain and bran fraction of five rice genotypes. Journal of the Science of Food and Agriculture, 2006, 86, 1209-1215.	1.7	24
64	Molecular Breeding for Rainfed Lowland Rice in the Mekong Region. Plant Production Science, 2005, 8, 330-333.	0.9	61
65	Estimating Percolation and Lateral Water Flow on Sloping Land in Rainfed Lowland Rice Ecosystem. Plant Production Science, 2005, 8, 354-357.	0.9	27
66	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. Plant Production Science, 2003, 6, 95-102.	0.9	12
67	Identification of Nutrients Limiting Rice Growth in Soils of Northeast Thailand under Water-Limiting and Non-Limiting Conditions. Plant Production Science, 2000, 3, 417-421.	0.9	10
68	Genotypic variation in rice grown in low fertile soils and drought-prone, rainfed lowland environments. Field Crops Research, 1999, 64, 121-130.	2.3	36
69	Lowland rice improvement in northern and northeast Thailand. Field Crops Research, 1998, 59, 99-108.	2.3	42
70	Lowland rice improvement in northern and northeast Thailand. Field Crops Research, 1998, 59, 109-119.	2.3	32
71	Increasing Production of Rainfed Lowland Rice in Drought Prone Environments. Plant Production Science, 1998, 1, 75-82.	0.9	69
72	Improving efficiency of water use for irrigated rice in a semi-arid tropical environment. Field Crops Research, 1997, 52, 231-248.	2.3	162

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73	Growth and grain yield of contrasting rice cultivars grown under different conditions of water availability. Field Crops Research, 1995, 44, 139-150.	2.3	62