

# Shaobing Peng

## List of Publications by Year in descending order

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Version: 2024-02-01

101  
papers

8,658  
citations

81434

41  
h-index

51423

90  
g-index

105  
all docs

105  
docs citations

105  
times ranked

8236  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of yield performance between direct-seeded and transplanted double-season rice using ultrashort-duration varieties in central China. <i>Crop Journal</i> , 2022, 10, 515-523.	2.3	24
2	Increase energy use efficiency and economic benefit with reduced environmental footprint in rice production of central China. <i>Environmental Science and Pollution Research</i> , 2022, 29, 7382-7392.	2.7	6
3	The Responses of Yield Performance to Seedling Ages with Varied Seeding or Transplanting Dates of Middle-Season Rice in Central China. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 3153-3168.	2.8	2
4	Limiting factors for panicle photosynthesis at the anthesis and grain filling stages in rice ( <i>Oryza</i> )	2.8	10
5	Predicting potential cultivation region and paddy area for ratoon rice production in China using Maxent model. <i>Field Crops Research</i> , 2022, 275, 108372.	2.3	46
6	Prospects for cotton self-sufficiency in China by closing yield gaps. <i>European Journal of Agronomy</i> , 2022, 133, 126437.	1.9	14
7	Leaf photosynthesis is positively correlated with xylem and phloem areas in leaf veins in rice ( <i>Oryza sativa</i> ) plants. <i>Annals of Botany</i> , 2022, 129, 619-631.	1.4	14
8	Effects of contrasting N supplies on leaf photosynthetic induction under fluctuating light in rice ()	2.6	1
9	An improved approach to estimate ratoon rice aboveground biomass by integrating UAV-based spectral, textural and structural features. <i>Precision Agriculture</i> , 2022, 23, 1276-1301.	3.1	27
10	Food-energy-emission nexus of rice production in China. , 2022, , .		5
11	Genotypic variation of plant biomass under nitrogen deficiency is positively correlated with conservative economic traits in wheat. <i>Journal of Experimental Botany</i> , 2022, 73, 2175-2189.	2.4	3
12	Variation of photosynthesis during plant evolution and domestication: implications for improving crop photosynthesis. <i>Journal of Experimental Botany</i> , 2022, 73, 4886-4896.	2.4	24
13	Biomass, Radiation Use Efficiency, and Nitrogen Utilization of Ratoon Rice Respond to Nitrogen Management in Central China. <i>Frontiers in Plant Science</i> , 2022, 13, 889542.	1.7	4
14	Stem small vascular bundles have greater accumulation and translocation of non-structural carbohydrates than large vascular bundles in rice. <i>Physiologia Plantarum</i> , 2022, 174, e13695.	2.6	3
15	Evaporative flux method of leaf hydraulic conductance estimation: sources of uncertainty and reporting format recommendation. <i>Plant Methods</i> , 2022, 18, 63.	1.9	2
16	Development of a new index for automated mapping of ratoon rice areas using time-series normalized difference vegetation index imagery. <i>Pedosphere</i> , 2022, 32, 576-587.	2.1	3
17	On-farm comparison in grain quality between main and ratoon crops of ratoon rice in Hubei Province, Central China. <i>Journal of the Science of Food and Agriculture</i> , 2022, 102, 7259-7267.	1.7	5
18	The structural correlations and the physiological functions of stomatal morphology and leaf structures in C3 annual crops. <i>Planta</i> , 2022, 256, .	1.6	3

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19	High yields of hybrid rice do not require more nitrogen fertilizer than inbred rice: A meta-analysis. <i>Food and Energy Security</i> , 2021, 10, 341-350.	2.0	22
20	Effects of topsoil removal on nitrogen uptake, biomass accumulation, and yield formation in puddled-transplanted rice. <i>Field Crops Research</i> , 2021, 265, 108130.	2.3	5
21	Estimating the yield stability of heat-tolerant rice genotypes under various heat conditions across reproductive stages: a 5-year case study. <i>Scientific Reports</i> , 2021, 11, 13604.	1.6	13
22	Nighttime transpirational cooling enabled by circadian regulation of stomatal conductance is related to stomatal anatomy and leaf morphology in rice. <i>Planta</i> , 2021, 254, 12.	1.6	9
23	Interannual climate variability constrains rice genetic improvement in China. <i>Food and Energy Security</i> , 2021, 10, e299.	2.0	5
24	Transferability of recommendations developed for transplanted rice to direct-seeded rice in ORYZA model. <i>Agronomy Journal</i> , 2021, 113, 5612-5622.	0.9	3
25	Mesophyll conductance variability of rice aquaporin knockout lines at different growth stages and growing environments. <i>Plant Journal</i> , 2021, 107, 1503-1512.	2.8	14
26	Abnormal anther development leads to lower spikelet fertility in rice ( <i>Oryza sativa</i> L.) under high temperature during the panicle initiation stage. <i>BMC Plant Biology</i> , 2021, 21, 428.	1.6	20
27	Leaf photosynthetic plasticity does not predict biomass responses to growth irradiance in rice. <i>Physiologia Plantarum</i> , 2021, 173, 2155-2165.	2.6	5
28	Comparisons between main and ratoon crops in resource use efficiencies, environmental impacts, and economic profits of rice ratooning system in central China. <i>Science of the Total Environment</i> , 2021, 799, 149246.	3.9	26
29	Effect of Stomatal Morphology on Leaf Photosynthetic Induction Under Fluctuating Light in Rice. <i>Frontiers in Plant Science</i> , 2021, 12, 754790.	1.7	7
30	Sustainable intensification for a larger global rice bowl. <i>Nature Communications</i> , 2021, 12, 7163.	5.8	82
31	The Adaptability of APSIM-Wheat Model in the Middle and Lower Reaches of the Yangtze River Plain of China: A Case Study of Winter Wheat in Hubei Province. <i>Agronomy</i> , 2020, 10, 981.	1.3	18
32	High leaf mass per area <i>Oryza</i> genotypes invest more leaf mass to cell wall and show a low mesophyll conductance. <i>AoB PLANTS</i> , 2020, 12, plaa028.	1.2	14
33	Intensified pollination and fertilization ameliorate heat injury in rice ( <i>Oryza sativa</i> L.) during the flowering stage. <i>Field Crops Research</i> , 2020, 252, 107795.	2.3	32
34	A hot-blast warming facility for simulating global warming in low-stature crop systems and its application case to assess elevated temperature effects on rice in Central China. <i>Plant Methods</i> , 2020, 16, 57.	1.9	3
35	Temperature responses of photosynthesis and leaf hydraulic conductance in rice and wheat. <i>Plant, Cell and Environment</i> , 2020, 43, 1437-1451.	2.8	24
36	Response of Photosynthesis to High Growth Temperature Was Not Related to Leaf Anatomy Plasticity in Rice ( <i>Oryza sativa</i> L.). <i>Frontiers in Plant Science</i> , 2020, 11, 26.	1.7	14

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37	The coordinated increase in stomatal density and vein dimensions during genetic improvement in rice. <i>Agronomy Journal</i> , 2020, 112, 2791-2804.	0.9	7
38	Fast photosynthesis measurements for phenotyping photosynthetic capacity of rice. <i>Plant Methods</i> , 2020, 16, 6.	1.9	12
39	Increase rate of light-induced stomatal conductance is related to stomatal size in the genus <i>Oryza</i> . <i>Journal of Experimental Botany</i> , 2019, 70, 5259-5269.	2.4	69
40	Enclosed stigma contributes to higher spikelet fertility for rice ( <i>Oryza sativa</i> L.) subjected to heat stress. <i>Crop Journal</i> , 2019, 7, 335-349.	2.3	22
41	Closing yield gaps for rice self-sufficiency in China. <i>Nature Communications</i> , 2019, 10, 1725.	5.8	179
42	Can ratoon cropping improve resource use efficiencies and profitability of rice in central China?. <i>Field Crops Research</i> , 2019, 234, 66-72.	2.3	94
43	Optimizing nitrogen management to balance rice yield and environmental risk in the Yangtze River's middle reaches. <i>Environmental Science and Pollution Research</i> , 2019, 26, 4901-4912.	2.7	29
44	Different mechanisms underlying the yield advantage of ordinary hybrid and super hybrid rice over inbred rice under low and moderate N input conditions. <i>Field Crops Research</i> , 2018, 216, 150-157.	2.3	40
45	Diffusional conductance to CO <sub>2</sub> is the key limitation to photosynthesis in salt-stressed leaves of rice ( <i>Oryza sativa</i> ). <i>Physiologia Plantarum</i> , 2018, 163, 45-58.	2.6	59
46	Effects of Post-Anthesis Nitrogen Uptake and Translocation on Photosynthetic Production and Rice Yield. <i>Scientific Reports</i> , 2018, 8, 12891.	1.6	24
47	Leaf hydraulic vulnerability triggers the decline in stomatal and mesophyll conductance during drought in rice. <i>Journal of Experimental Botany</i> , 2018, 69, 4033-4045.	2.4	108
48	Low Nitrogen Application Enhances Starch-Metabolizing Enzyme Activity and Improves Accumulation and Translocation of Non-structural Carbohydrates in Rice Stems. <i>Frontiers in Plant Science</i> , 2018, 9, 1128.	1.7	55
49	The Effect of Storage Condition and Duration on the Deterioration of Primed Rice Seeds. <i>Frontiers in Plant Science</i> , 2018, 9, 172.	1.7	55
50	Integrated crop management practices for maximizing grain yield of double-season rice crop. <i>Scientific Reports</i> , 2017, 7, 38982.	1.6	47
51	The inhibition of photosynthesis under water deficit conditions is more severe in flecked than uniform irradiance in rice ( <i>Oryza sativa</i> ) plants. <i>Functional Plant Biology</i> , 2017, 44, 464.	1.1	9
52	Agronomic performance of inbred and hybrid rice cultivars under simplified and reduced-input practices. <i>Field Crops Research</i> , 2017, 210, 129-135.	2.3	50
53	Trends in the economic return on energy use and energy use efficiency in China's crop production. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 70, 836-844.	8.2	45
54	Input-output energy analysis of rice production in different crop management practices in central China. <i>Energy</i> , 2017, 141, 1124-1132.	4.5	57

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55	The possibility of replacing puddled transplanted flooded rice with dry seeded rice in central China: A review. <i>Field Crops Research</i> , 2017, 214, 310-320.	2.3	56
56	A few enlarged chloroplasts are less efficient in photosynthesis than a large population of small chloroplasts in <i>Arabidopsis thaliana</i> . <i>Scientific Reports</i> , 2017, 7, 5782.	1.6	35
57	Seed Pelleting with Calcium Peroxide Improves Crop Establishment of Direct-seeded Rice under Waterlogging Conditions. <i>Scientific Reports</i> , 2017, 7, 4878.	1.6	41
58	Leaf anatomy mediates coordination of leaf hydraulic conductance and mesophyll conductance to $\text{CO}_2$ in <i>Oryza</i> . <i>New Phytologist</i> , 2017, 213, 572-583.	3.5	126
59	Heat-Induced Cytokinin Transportation and Degradation Are Associated with Reduced Panicle Cytokinin Expression and Fewer Spikelets per Panicle in Rice. <i>Frontiers in Plant Science</i> , 2017, 8, 371.	1.7	54
60	Nitrogen Can Alleviate the Inhibition of Photosynthesis Caused by High Temperature Stress under Both Steady-State and Flecked Irradiance. <i>Frontiers in Plant Science</i> , 2017, 8, 945.	1.7	28
61	The Effect of Season-Long Temperature Increases on Rice Cultivars Grown in the Central and Southern Regions of China. <i>Frontiers in Plant Science</i> , 2017, 8, 1908.	1.7	84
62	Genotypic Differences of Japonica Rice Responding to High Temperature in China. <i>Agronomy Journal</i> , 2016, 108, 626-636.	0.9	15
63	Physiological Mechanisms Underlying the High-Grain Yield and High-Nitrogen Use Efficiency of Elite Rice Varieties under a Low Rate of Nitrogen Application in China. <i>Frontiers in Plant Science</i> , 2016, 7, 1024.	1.7	38
64	Comparative Transcriptional Profiling of Primed and Non-primed Rice Seedlings under Submergence Stress. <i>Frontiers in Plant Science</i> , 2016, 7, 1125.	1.7	60
65	Genetic Improvements in Rice Yield and Concomitant Increases in Radiation- and Nitrogen-Use Efficiency in Middle Reaches of Yangtze River. <i>Scientific Reports</i> , 2016, 6, 21049.	1.6	57
66	Pre-sowing Seed Treatments in Direct-seeded Early Rice: Consequences for Emergence, Seedling Growth and Associated Metabolic Events under Chilling Stress. <i>Scientific Reports</i> , 2016, 6, 19637.	1.6	78
67	Nitrogen can improve the rapid response of photosynthesis to changing irradiance in rice ( <i>Oryza</i> ) Tj ETQq1 1 0.784314 rgBT /Overloc	1.6	65
68	Rice ( <i>Oryza sativa</i> L.) hydraulic conductivity links to leaf venation architecture under well-watered condition rather than PEG-induced water deficit. <i>Acta Physiologiae Plantarum</i> , 2016, 38, 1.	1.0	7
69	Lower global warming potential and higher yield of wet direct-seeded rice in Central China. <i>Agronomy for Sustainable Development</i> , 2016, 36, 1.	2.2	78
70	Temperature explains the yield difference of double-season rice between tropical and subtropical environments. <i>Field Crops Research</i> , 2016, 198, 303-311.	2.3	34
71	Effects of pre-sowing seed treatments on establishment of dry direct-seeded early rice under chilling stress. <i>AoB PLANTS</i> , 2016, 8, .	1.2	24
72	Heat-induced phytohormone changes are associated with disrupted early reproductive development and reduced yield in rice. <i>Scientific Reports</i> , 2016, 6, 34978.	1.6	116

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73	Leaf density explains variation in leaf mass per area in rice between cultivars and nitrogen treatments. <i>Annals of Botany</i> , 2016, 117, 963-971.	1.4	39
74	Seed priming in dry direct-seeded rice: consequences for emergence, seedling growth and associated metabolic events under drought stress. <i>Plant Growth Regulation</i> , 2016, 78, 167-178.	1.8	169
75	Non-photochemical Quenching Plays a Key Role in Light Acclimation of Rice Plants Differing in Leaf Color. <i>Frontiers in Plant Science</i> , 2016, 7, 1968.	1.7	70
76	Overexpression of OsSAP16 Regulates Photosynthesis and the Expression of a Broad Range of Stress Response Genes in Rice ( <i>Oryza sativa</i> L.). <i>PLoS ONE</i> , 2016, 11, e0157244.	1.1	14
77	SPAD-based leaf nitrogen estimation is impacted by environmental factors and crop leaf characteristics. <i>Scientific Reports</i> , 2015, 5, 13389.	1.6	233
78	Heterogeneity of photosynthesis within leaves is associated with alteration of leaf structural features and leaf N content per leaf area in rice. <i>Functional Plant Biology</i> , 2015, 42, 687.	1.1	32
79	Dry direct-seeded rice as an alternative to transplanted-flooded rice in Central China. <i>Agronomy for Sustainable Development</i> , 2015, 35, 285-294.	2.2	197
80	Sufficient leaf transpiration and nonstructural carbohydrates are beneficial for high-temperature tolerance in three rice ( <i>Oryza sativa</i> ) cultivars and two nitrogen treatments. <i>Functional Plant Biology</i> , 2015, 42, 347.	1.1	36
81	Benefits of rice seed priming are offset permanently by prolonged storage and the storage conditions. <i>Scientific Reports</i> , 2015, 5, 8101.	1.6	115
82	Leaf hydraulic conductance is coordinated with leaf morpho-anatomical traits and nitrogen status in the genus <i>Oryza</i> . <i>Journal of Experimental Botany</i> , 2015, 66, 741-748.	2.4	91
83	Drought stress condition increases root to shoot ratio via alteration of carbohydrate partitioning and enzymatic activity in rice seedlings. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.	1.0	221
84	Implications of low sowing rate for hybrid rice varieties under dry direct-seeded rice system in Central China. <i>Field Crops Research</i> , 2015, 175, 87-95.	2.3	37
85	Rapid responses of mesophyll conductance to changes of $\text{CO}_2$ concentration, temperature and irradiance are affected by $\text{N}$ supplements in rice. <i>Plant, Cell and Environment</i> , 2015, 38, 2541-2550.	2.8	137
86	Leaf Lateral Asymmetry in Morphological and Physiological Traits of Rice Plant. <i>PLoS ONE</i> , 2015, 10, e0129832.	1.1	13
87	Water Management Practices Affect Arsenic and Cadmium Accumulation in Rice Grains. <i>Scientific World Journal</i> , The, 2014, 2014, 1-6.	0.8	16
88	Estimating crop yield potential at regional to national scales. <i>Field Crops Research</i> , 2013, 143, 34-43.	2.3	308
89	Source-sink dynamics and proteomic reprogramming under elevated night temperature and their impact on rice yield and grain quality. <i>New Phytologist</i> , 2013, 197, 825-837.	3.5	181
90	Does Chloroplast Size Influence Photosynthetic Nitrogen Use Efficiency?. <i>PLoS ONE</i> , 2013, 8, e62036.	1.1	92

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91	Synergic Effect of Flooding and Nitrogen Application on Alleviation of Soil Sickness Caused by Aerobic Rice Monocropping. <i>Plant Production Science</i> , 2012, 15, 246-251.	0.9	3
92	Improving Nitrogen Fertilization in Rice by Site-Specific N Management. , 2011, , 943-952.		9
93	Current Status and Challenges of Rice Production in China. <i>Plant Production Science</i> , 2009, 12, 3-8.	0.9	573
94	Yield potential and radiation use efficiency of "super" hybrid rice grown under subtropical conditions. <i>Field Crops Research</i> , 2009, 114, 91-98.	2.3	174
95	Determination of optimal nitrogen rate for rice varieties using a chlorophyll meter. <i>Field Crops Research</i> , 2008, 105, 70-80.	2.3	139
96	Progress in ideotype breeding to increase rice yield potential. <i>Field Crops Research</i> , 2008, 108, 32-38.	2.3	630
97	Grain Yield and Yield Attributes of New Plant Type and Hybrid Rice. <i>Crop Science</i> , 2007, 47, 1393-1400.	0.8	82
98	Lodging-related morphological traits of hybrid rice in a tropical irrigated ecosystem. <i>Field Crops Research</i> , 2007, 101, 240-248.	2.3	195
99	Strategies for overcoming low agronomic nitrogen use efficiency in irrigated rice systems in China. <i>Field Crops Research</i> , 2006, 96, 37-47.	2.3	484
100	Effect of Panicle Size on Grain Yield of IRRI-Released Indica Rice Cultivars in the Wet Season. <i>Plant Production Science</i> , 2004, 7, 271-276.	0.9	38
101	Rice yields decline with higher night temperature from global warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 9971-9975.	3.3	1,859