Tao Ren

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

1,891 36 25 121 h-index g-index citations papers 128 2,688 5.15 5.3 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
121	Prior nitrogen fertilization stimulated N2O emission from rice cultivation season under a rapeseed-rice production system. <i>Plant and Soil</i> , 2022 , 471, 685	4.2	O
120	Effect of Clay Mineralogy and Soil Organic Carbon in Aggregates under Straw Incorporation. <i>Agronomy</i> , 2022 , 12, 534	3.6	10
119	How China responds to Omicron Journal of Infection, 2022,	18.9	3
118	Straw incorporation improved the adsorption of potassium by increasing the soil humic acid in macroaggregates <i>Journal of Environmental Management</i> , 2022 , 310, 114665	7.9	О
117	Rapeseed as a previous crop reduces rice N fertilizer input by improving soil fertility. <i>Field Crops Research</i> , 2022 , 281, 108487	5.5	3
116	ChinaSs Sdynamic zero COVID-19 strategySwill face greater challenges in the future <i>Journal of Infection</i> , 2022 ,	18.9	1
115	Potassium Deficiency in Rice Aggravates Infection and Ultimately Leads to Alterations in Endophyte Communities and Suppression of Nutrient Uptake <i>Frontiers in Plant Science</i> , 2022 , 13, 8823	59 ²	O
114	Rapid soil rewetting promotes limited NO emissions and suppresses NH volatilization under urea addition <i>Environmental Research</i> , 2022 , 212, 113402	7.9	0
113	Effect of magnesium fertilization on seed yield, seed quality, carbon assimilation and nutrient uptake of rapeseed plants. <i>Field Crops Research</i> , 2021 , 264, 108082	5.5	3
112	Nitrogen/potassium interactions increase rice yield by improving canopy performance. <i>Food and Energy Security</i> , 2021 , 10, e295	4.1	1
111	Potassium modulates central carbon metabolism to participate in regulating CO transport and assimilation in Brassica napus leaves. <i>Plant Science</i> , 2021 , 307, 110891	5.3	1
110	Straw management stabilizes the chemical composition of Soil Organic Carbon (SOC): the relationship with aggregate-associated C in a rice-rape cropping system. <i>Land Degradation and Development</i> , 2021 , 32, 851-866	4.4	7
109	Applying potassium fertilizer improves sheath rot disease tolerance and decreases grain yield loss in rice (Oryza sativa L.). <i>Crop Protection</i> , 2021 , 139, 105392	2.7	4
108	Optimal potassium management strategy to enhance crop yield and soil potassium fertility under paddy-upland rotation. <i>Journal of the Science of Food and Agriculture</i> , 2021 , 101, 3404-3412	4.3	3
107	Rotation with oilseed rape as the winter crop enhances rice yield and improves soil indigenous nutrient supply. <i>Soil and Tillage Research</i> , 2021 , 212, 105065	6.5	6
106	Metabolomic and Transcriptomic Changes Induced by Potassium Deficiency During Sarocladium oryzae Infection Reveal Insights into Rice Sheath Rot Disease Resistance. <i>Rice</i> , 2021 , 14, 81	5.8	2
105	Potassium fertilization reduces silique canopy temperature variation in Brassica napus to enhance seed yield. <i>Industrial Crops and Products</i> , 2021 , 168, 113604	5.9	2

(2020-2020)

104	The reduction in leaf area precedes that in photosynthesis under potassium deficiency: the importance of leaf anatomy. <i>New Phytologist</i> , 2020 , 227, 1749-1763	9.8	17
103	Diagnosis of Nitrogen Nutrition in Rice Leaves Influenced by Potassium Levels. <i>Frontiers in Plant Science</i> , 2020 , 11, 165	6.2	7
102	Wild bird-origin H5N6 avian influenza virus is transmissible in guinea pigs. <i>Journal of Infection</i> , 2020 , 80, e20-e22	18.9	5
101	Nitrogen fertilization compensation the weak photosynthesis of Oilseed rape (Brassca napus L.) under haze weather. <i>Scientific Reports</i> , 2020 , 10, 4047	4.9	4
100	Higher Radiation Use Efficiency Produces Greater Biomass Before Heading and Grain Yield in Super Hybrid Rice. <i>Agronomy</i> , 2020 , 10, 209	3.6	4
99	High water uptake ability was associated with root aerenchyma formation in rice: Evidence from local ammonium supply under osmotic stress conditions. <i>Plant Physiology and Biochemistry</i> , 2020 , 150, 171-179	5.4	4
98	Yield and potassium uptake of rice as affected by potassium rate in the middle reaches of the Yangtze River, China. <i>Agronomy Journal</i> , 2020 , 112, 1318-1329	2.2	1
97	Optimizing agronomic practices for closing rapeseed yield gaps under intensive cropping systems in China. <i>Journal of Integrative Agriculture</i> , 2020 , 19, 1241-1249	3.2	4
96	Prior nitrogen fertilization regulates CH4 emissions from rice cultivation by increasing soil carbon storage in a rapeseed-rice rotation. <i>Applied Soil Ecology</i> , 2020 , 155, 103633	5	5
95	Comparative genome and transcriptome analysis unravels key factors of nitrogen use efficiency in Brassica napus L. <i>Plant, Cell and Environment</i> , 2020 , 43, 712-731	8.4	16
94	Canopy light and nitrogen distribution are closely related to nitrogen allocation within leaves in Brassica napus L <i>Field Crops Research</i> , 2020 , 258, 107958	5.5	2
93	Improved nitrogen efficiency in winter oilseed rape hybrid compared with the parental lines under contrasting nitrogen supply. <i>Industrial Crops and Products</i> , 2020 , 155, 112777	5.9	2
92	Anatomically induced changes in rice leaf mesophyll conductance explain the variation in photosynthetic nitrogen use efficiency under contrasting nitrogen supply. <i>BMC Plant Biology</i> , 2020 , 20, 527	5.3	5
91	Effects of potassium fertilization on crops yield, potassium uptake, and soil potassium fertility in rice-oilseed rape cropping systems. <i>Archives of Agronomy and Soil Science</i> , 2020 , 1-13	2	1
90	Nutrition-mediated cell and tissue-level anatomy triggers the covariation of leaf photosynthesis and leaf mass per area. <i>Journal of Experimental Botany</i> , 2020 , 71, 6524-6537	7	5
89	Combined application of nitrogen and potassium reduces seed yield loss of oilseed rape caused by Sclerotinia stem rot disease. <i>Agronomy Journal</i> , 2020 , 112, 5143-5157	2.2	1
88	Leaf photosynthesis is mediated by the coordination of nitrogen and potassium: The importance of anatomical-determined mesophyll conductance to CO and carboxylation capacity. <i>Plant Science</i> , 2020 , 290, 110267	5.3	13
87	Differential Responses of Seed Yield and Yield Components to Nutrient Deficiency Between Direct Sown and Transplanted Winter Oilseed Rape. <i>International Journal of Plant Production</i> , 2020 , 14, 77-92	2.4	4

efficiency of mechanically transplanted rice. Agriculture, Ecosystems and Environment, 2019, 269, 183-19 $2^{5.7}$

Prospects for enhancing leaf photosynthetic capacity by manipulating mesophyll cell morphology.

Journal of Experimental Botany, 2019, 70, 1153-1165

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(2017-2019)

68	Yield loss of oilseed rape (Brassica napus L.) under nitrogen deficiency is associated with under-regulation of plant population density. <i>European Journal of Agronomy</i> , 2019 , 103, 80-89	5	12
67	Impact of K deficiency on leaves and siliques photosynthesis via metabolomics in Brassica napus. <i>Environmental and Experimental Botany</i> , 2019 , 158, 89-98	5.9	7
66	Host immune responses of pigeons infected with Newcastle disease viruses isolated from pigeons. <i>Microbial Pathogenesis</i> , 2019 , 127, 131-137	3.8	6
65	Potassium deficiency aggravates yield loss in rice by restricting the translocation of non-structural carbohydrates under Sarocladium oryzae infection condition. <i>Physiologia Plantarum</i> , 2019 , 167, 352-364	1 ^{4.6}	9
64	Producing more grain yield of rice with less ammonia volatilization and greenhouse gases emission using slow/controlled-release urea. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 2569-2579	5.1	24
63	Assessing leaf nitrogen concentration of winter oilseed rape with canopy hyperspectral technique considering a non-uniform vertical nitrogen distribution. <i>Industrial Crops and Products</i> , 2018 , 116, 1-14	5.9	22
62	Storage nitrogen co-ordinates leaf expansion and photosynthetic capacity in winter oilseed rape. Journal of Experimental Botany, 2018 , 69, 2995-3007	7	39
61	Synergistic Effects of Nitrogen and Potassium on Quantitative Limitations to Photosynthesis in Rice (Oryza sativa L.). <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 5125-5132	5.7	13
60	Nitrogen losses, use efficiency, and productivity of early rice under controlled-release urea. <i>Agriculture, Ecosystems and Environment</i> , 2018 , 251, 78-87	5.7	79
59	Accumulation of ammonium and reactive oxygen mediated drought-induced rice growth inhibition by disturbed nitrogen metabolism and photosynthesis. <i>Plant and Soil</i> , 2018 , 431, 107-117	4.2	7
58	Is Nitrogen a Key Determinant of Water Transport and Photosynthesis in Higher Plants Upon Drought Stress?. <i>Frontiers in Plant Science</i> , 2018 , 9, 1143	6.2	36
57	Human infection with an avian-origin influenza A (H7N4) virus in Jiangsu: A potential threat to China. <i>Journal of Infection</i> , 2018 , 77, 249-257	18.9	8
56	Role of Aquaporins in Determining Carbon and Nitrogen Status in Higher Plants. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	23
55	Aquaporin Expression and Water Transport Pathways inside Leaves Are Affected by Nitrogen Supply through Transpiration in Rice Plants. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	16
54	Ability of models with effective wavelengths to monitor nitrogen and phosphorus status of winter oilseed rape leaves using in situ canopy spectroscopy. <i>Field Crops Research</i> , 2018 , 215, 173-186	5.5	23
53	Establishing grading indices of available soil potassium on paddy soils in Hubei province, China. <i>Scientific Reports</i> , 2018 , 8, 16381	4.9	7
52	On-farm trials of site-specific N management for maximum winter oilseed rape (Brassica napus L.) yield. <i>Journal of Plant Nutrition</i> , 2017 , 40, 1300-1311	2.3	2
51	Effects of low sink demand on leaf photosynthesis under potassium deficiency. <i>Plant Physiology and Biochemistry</i> , 2017 , 113, 110-121	5.4	34

associated with potassium utilisation efficiency. Functional Plant Biology, 2016, 43, 880-891

red-edge parameters. Computers and Electronics in Agriculture, 2016, 126, 21-31

Evaluating chlorophyll density in winter oilseed rape (Brassica napus L.) using canopy hyperspectral

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(2014-2016)

32	Positional difference in potassium concentration as diagnostic index relating to plant K status and yield level in rice (Oryza sativa L.). <i>Soil Science and Plant Nutrition</i> , 2016 , 62, 31-38	1.6	9
31	Evaluate regional potassium fertilization strategy of winter oilseed rape under intensive cropping systems: Large-scale field experiment analysis. <i>Field Crops Research</i> , 2016 , 193, 34-42	5.5	19
30	S1PR1 expression correlates with inflammatory responses to Newcastle disease virus infection. <i>Infection, Genetics and Evolution</i> , 2016 , 37, 37-42	4.5	11
29	Response of Nitrogen, Phosphorus and Potassium Fertilization on Productivity and Quality of Winter Rapeseed in Central China. <i>International Journal of Agriculture and Biology</i> , 2016 , 18, 1137-1142	1.5	8
28	Heterogeneity in Rice Tillers Yield Associated with Tillers Formation and Nitrogen Fertilizer. <i>Agronomy Journal</i> , 2016 , 108, 1717-1725	2.2	16
27	Nitrogen Fertilizer Management for Enhancing Crop Productivity and Nitrogen Use Efficiency in a Rice-Oilseed Rape Rotation System in China. <i>Frontiers in Plant Science</i> , 2016 , 7, 1496	6.2	38
26	Application of Controlled-Release Urea in Rice: Reducing Environmental Risk While Increasing Grain Yield and Improving Nitrogen Use Efficiency. <i>Communications in Soil Science and Plant Analysis</i> , 2016 , 47, 1176-1183	1.5	17
25	Effects of long term rice straw application on the microbial communities of rapeseed rhizosphere in a paddy-upland rotation system. <i>Science of the Total Environment</i> , 2016 , 557-558, 231-9	10.2	32
24	Crop rotation-dependent yield responses to fertilization in winter oilseed rape (Brassica napus L.). <i>Crop Journal</i> , 2015 , 3, 396-404	4.6	10
23	The impact of exogenous N supply on soluble organic nitrogen dynamics and nitrogen balance in a greenhouse vegetable system. <i>Journal of Environmental Management</i> , 2015 , 154, 351-7	7.9	25
22	Yield response to N fertilizer and optimum N rate of winter oilseed rape under different soil indigenous N supplies. <i>Field Crops Research</i> , 2015 , 181, 52-59	5.5	24
21	On-farm trials of optimal fertilizer recommendations for the maintenance of high seed yields in winter oilseed rape (Brassica napus L.) production. <i>Soil Science and Plant Nutrition</i> , 2015 , 61, 528-540	1.6	8
20	Nutrient deficiency limits population development, yield formation, and nutrient uptake of direct sown winter oilseed rape. <i>Journal of Integrative Agriculture</i> , 2015 , 14, 670-680	3.2	17
19	Effect of depth of fertilizer banded-placement on growth, nutrient uptake and yield of oilseed rape (Brassica napus L.). <i>European Journal of Agronomy</i> , 2015 , 62, 38-45	5	47
18	The yield of mechanically harvested rapeseed (Brassica napus L.) can be increased by optimum plant density and row spacing. <i>Scientific Reports</i> , 2015 , 5, 18835	4.9	37
17	Evaluation of nitrogen requirement and efficiency of rice in the region of Yangtze River Valley based on large-scale field experiments. <i>Journal of Integrative Agriculture</i> , 2015 , 14, 2090-2098	3.2	4
16	Particulate Organic Matter Affects Soil Nitrogen Mineralization under Two Crop Rotation Systems. <i>PLoS ONE</i> , 2015 , 10, e0143835	3.7	19
15	Establishment Method Affects Oilseed Rape Yield and the Response to Nitrogen Fertilizer. Agronomy Journal, 2014 , 106, 131-142	2.2	25

14	Dynamics of potassium release and adsorption on rice straw residue. PLoS ONE, 2014, 9, e90440	3.7	37
13	The effects of manure and nitrogen fertilizer applications on soil organic carbon and nitrogen in a high-input cropping system. <i>PLoS ONE</i> , 2014 , 9, e97732	3.7	47
12	Potassium Mobilization and Transformation in Red Paddy Soil as Affected by Rice. <i>Agronomy Journal</i> , 2014 , 106, 1011-1017	2.2	2
11	Winter Oilseed Rape Productivity and Nutritional Quality Responses to Zinc Fertilization. <i>Agronomy Journal</i> , 2014 , 106, 1349-1357	2.2	3
10	Potassium Fixation and Release Characteristics of Several Normal and K-Exhausted Soils in the Middle and Lower Reaches of the Yangtse River, China. <i>Communications in Soil Science and Plant Analysis</i> , 2014 , 45, 2921-2931	1.5	5
9	Influence of rice straw mulching on seed yield and nitrogen use efficiency of winter oilseed rape (Brassica napus L.) in intensive riceBilseed rape cropping system. <i>Field Crops Research</i> , 2014 , 159, 53-61	5.5	50
8	Effects of conventional and reduced N inputs on nematode communities and plant yield under intensive vegetable production. <i>Applied Soil Ecology</i> , 2013 , 66, 48-55	5	14
7	Potassium-fertilizer management in winter oilseed-rape production in China. <i>Journal of Plant Nutrition and Soil Science</i> , 2013 , 176, 429-440	2.3	25
6	Effects of Nitrogen, Phosphorus, Potassium, and Boron Fertilizers on Winter Oilseed Rape (Brassica napusL.) Direct-sown in the Yangtze River Basin. <i>Acta Agronomica Sinica(China)</i> , 2013 , 39, 1491	1.4	3
5	Evaluating regional mean optimal nitrogen rates in combination with indigenous nitrogen supply for rice production. <i>Field Crops Research</i> , 2012 , 137, 37-48	5.5	50
4	Increase of Soil pH in a Solar Greenhouse Vegetable Production System. <i>Soil Science Society of America Journal</i> , 2012 , 76, 2074-2082	2.5	30
3	Differences in Soil Fertility Parameters between 1981 and 2006 in Jingzhou County, China Associated with Changes of Agricultural Practices. <i>Communications in Soil Science and Plant Analysis</i> , 2011 , 42, 2504-2514	1.5	3
2	Root zone soil nitrogen management to maintain high tomato yields and minimum nitrogen losses to the environment. <i>Scientia Horticulturae</i> , 2010 , 125, 25-33	4.1	45
1	The main driving factors and responses to increase in soil available potassium in the Yangtze River basin over the past 30 years. <i>Land Degradation and Development</i> ,	4.4	1