List of Publications by Year in descending order

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SHIWEI CUO

#	Article	IF	CITATIONS
1	Producing more grain with lower environmental costs. Nature, 2014, 514, 486-489.	13.7	1,292
2	The Critical Role of Potassium in Plant Stress Response. International Journal of Molecular Sciences, 2013, 14, 7370-7390.	1.8	1,096
3	Net annual global warming potential and greenhouse gas intensity in Chinese double rice-cropping systems: a 3-year field measurement in long-term fertilizer experiments. Global Change Biology, 2011, 17, 2196-2210.	4.2	445
4	Insight into how organic amendments can shape the soil microbiome in long-term field experiments as revealed by network analysis. Soil Biology and Biochemistry, 2016, 99, 137-149.	4.2	282
5	Organic amendments increase crop yields by improving microbe-mediated soil functioning of agroecosystems: A meta-analysis. Soil Biology and Biochemistry, 2018, 124, 105-115.	4.2	251
6	Role of Silicon on Plant–Pathogen Interactions. Frontiers in Plant Science, 2017, 8, 701.	1.7	239
7	Long-term fertilisation regimes affect the composition of the alkaline phosphomonoesterase encoding microbial community of a vertisol and its derivative soil fractions. Biology and Fertility of Soils, 2017, 53, 375-388.	2.3	211
8	Light-saturated photosynthetic rate in high-nitrogen rice (Oryza sativa L.) leaves is related to chloroplastic CO2 concentration. Journal of Experimental Botany, 2009, 60, 2351-2360.	2.4	154
9	Optimizing nitrogen supply increases rice yield and nitrogen use efficiency by regulating yield formation factors. Field Crops Research, 2013, 150, 99-107.	2.3	152
10	Deciphering the associations between soil microbial diversity and ecosystem multifunctionality driven by longâ€ŧerm fertilization management. Functional Ecology, 2018, 32, 1103-1116.	1.7	141
11	Synergistic and antagonistic interactions between potassium and magnesium in higher plants. Crop Journal, 2021, 9, 249-256.	2.3	116
12	Response of the bacterial diversity and soil enzyme activity in particle-size fractions of Mollisol after different fertilization in a long-term experiment. Biology and Fertility of Soils, 2014, 50, 901-911.	2.3	110
13	Understanding how long-term organic amendments increase soil phosphatase activities: Insight into phoD- and phoC-harboring functional microbial populations. Soil Biology and Biochemistry, 2019, 139, 107632.	4.2	110
14	The enhanced drought tolerance of rice plants under ammonium is related to aquaporin (AQP). Plant Science, 2015, 234, 14-21.	1.7	103
15	Soil fungal assemblage complexity is dependent on soil fertility and dominated by deterministic processes. New Phytologist, 2020, 226, 232-243.	3.5	101
16	Unravelling the Roles of Nitrogen Nutrition in Plant Disease Defences. International Journal of Molecular Sciences, 2020, 21, 572.	1.8	100
17	Fusaric acid is a crucial factor in the disturbance of leaf water imbalance in Fusarium-infected banana plants. Plant Physiology and Biochemistry, 2012, 60, 171-179.	2.8	99
18	Distinct drivers of activity, abundance, diversity and composition of ammonia-oxidizers: evidence from a long-term field experiment. Soil Biology and Biochemistry, 2017, 115, 403-414.	4.2	98

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19	Does Chloroplast Size Influence Photosynthetic Nitrogen Use Efficiency?. PLoS ONE, 2013, 8, e62036.	1.1	92
20	Bacterial rather than fungal community composition is associated with microbial activities and nutrient-use efficiencies in a paddy soil with short-term organic amendments. Plant and Soil, 2018, 424, 335-349.	1.8	88
21	The Interactions of Aquaporins and Mineral Nutrients in Higher Plants. International Journal of Molecular Sciences, 2016, 17, 1229.	1.8	86
22	Effect of organic substitution rates on soil quality and fungal community composition in a tea plantation with long-term fertilization. Biology and Fertility of Soils, 2020, 56, 633-646.	2.3	86
23	Drought-Induced Root Aerenchyma Formation Restricts Water Uptake in Rice Seedlings Supplied with Nitrate. Plant and Cell Physiology, 2012, 53, 495-504.	1.5	85
24	Soil fertility and its significance to crop productivity and sustainability in typical agroecosystem: a summary of long-term fertilizer experiments in China. Plant and Soil, 2014, 381, 13-23.	1.8	81
25	Ammonium nutrition increases water absorption in rice seedlings (Oryza sativa L.) under water stress. Plant and Soil, 2010, 331, 193-201.	1.8	80
26	ls Nitrogen a Key Determinant of Water Transport and Photosynthesis in Higher Plants Upon Drought Stress?. Frontiers in Plant Science, 2018, 9, 1143.	1.7	78
27	Do high nitrogen use efficiency rice cultivars reduce nitrogen losses from paddy fields?. Agriculture, Ecosystems and Environment, 2015, 209, 26-33.	2.5	76
28	Ammonium nutrition increases photosynthesis rate under water stress at early development stage of rice (Oryza sativa L.). Plant and Soil, 2007, 296, 115-124.	1.8	75
29	Functions of silicon in plant drought stress responses. Horticulture Research, 2021, 8, 254.	2.9	75
30	Ammonia volatilization in Chinese double rice-cropping systems: a 3-year field measurement in long-term fertilizer experiments. Biology and Fertility of Soils, 2014, 50, 715-725.	2.3	70
31	Water balance altered in cucumber plants infected with Fusarium oxysporum f. sp. cucumerinum. Scientific Reports, 2015, 5, 7722.	1.6	68
32	Improving rice population productivity by reducing nitrogen rate and increasing plant density. PLoS ONE, 2017, 12, e0182310.	1.1	68
33	Relationship between water and nitrogen uptake in nitrate- and ammonium-suppliedPhaseolus vulgaris L. plants. Journal of Plant Nutrition and Soil Science, 2007, 170, 73-80.	1.1	66
34	Different apparent CO2 compensation points in nitrate- and ammonium-grown Phaseolus vulgaris and the relationship to non-photorespiratory CO2 evolution. Physiologia Plantarum, 2005, 123, 288-301.	2.6	64
35	Root ABA Accumulation Enhances Rice Seedling Drought Tolerance under Ammonium Supply: Interaction with Aquaporins. Frontiers in Plant Science, 2016, 7, 1206.	1.7	64
36	New Insight into the Strategy for Nitrogen Metabolism in Plant Cells. International Review of Cell and Molecular Biology, 2014, 310, 1-37.	1.6	62

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37	Why Nitrogen Use Efficiency Decreases Under High Nitrogen Supply in Rice (Oryza sativa L.) Seedlings. Journal of Plant Growth Regulation, 2012, 31, 47-52.	2.8	58
38	N-fertilizer-driven association between the arbuscular mycorrhizal fungal community and diazotrophic community impacts wheat yield. Agriculture, Ecosystems and Environment, 2018, 254, 191-201.	2.5	57
39	Dynamics of the antibiotic resistome in agricultural soils amended with different sources of animal manures over three consecutive years. Journal of Hazardous Materials, 2021, 401, 123399.	6.5	57
40	Chloroplast Downsizing Under Nitrate Nutrition Restrained Mesophyll Conductance and Photosynthesis in Rice (Oryza sativa L.) Under Drought Conditions. Plant and Cell Physiology, 2012, 53, 892-900.	1.5	55
41	Thermographic visualization of leaf response in cucumber plants infected with the soil-borne pathogen Fusarium oxysporum f. sp. cucumerinum. Plant Physiology and Biochemistry, 2012, 61, 153-161.	2.8	55
42	Long-term fertilization regimes drive the abundance and composition of N-cycling-related prokaryotic groups via soil particle-size differentiation. Soil Biology and Biochemistry, 2018, 116, 213-223.	4.2	52
43	The rice production practices of high yield and high nitrogen use efficiency in Jiangsu, China. Scientific Reports, 2017, 7, 2101.	1.6	51
44	Aquaporin PIP2;1 affects water transport and root growth in rice (Oryza sativa L.). Plant Physiology and Biochemistry, 2019, 139, 152-160.	2.8	51
45	Potassium mediates coordination of leaf photosynthesis and hydraulic conductance by modifications of leaf anatomy. Plant, Cell and Environment, 2019, 42, 2231-2244.	2.8	51
46	Water absorption is affected by the nitrogen supply to rice plants. Plant and Soil, 2015, 396, 397-410.	1.8	50
47	Longâ€ŧerm fertilization regimes change soil nitrification potential by impacting active autotrophic ammonia oxidizers and nitrite oxidizers as assessed by DNA stable isotope probing. Environmental Microbiology, 2019, 21, 1224-1240.	1.8	48
48	Crop rotation history constrains soil biodiversity and multifunctionality relationships. Agriculture, Ecosystems and Environment, 2021, 319, 107550.	2.5	48
49	Fusaric acid accelerates the senescence of leaf in banana when infected by Fusarium. World Journal of Microbiology and Biotechnology, 2014, 30, 1399-1408.	1.7	47
50	Alterations in soil fungal community composition and network assemblage structure by different long-term fertilization regimes are correlated to the soil ionome. Biology and Fertility of Soils, 2018, 54, 95-106.	2.3	47
51	Ammonium enhances the tolerance of rice seedlings (Oryza sativa L.) to drought condition. Agricultural Water Management, 2009, 96, 1746-1750.	2.4	46
52	Plant Primary Metabolism Regulated by Nitrogen Contributes to Plant–Pathogen Interactions. Plant and Cell Physiology, 2019, 60, 329-342.	1.5	45
53	Nitrate Increased Cucumber Tolerance to Fusarium Wilt by Regulating Fungal Toxin Production and Distribution. Toxins, 2017, 9, 100.	1.5	40
54	Role of Aquaporins in Determining Carbon and Nitrogen Status in Higher Plants. International Journal of Molecular Sciences, 2018, 19, 35.	1.8	39

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55	Nitrate Protects Cucumber Plants Against <i>Fusarium oxysporum</i> by Regulating Citrate Exudation. Plant and Cell Physiology, 2016, 57, 2001-2012.	1.5	37
56	Legacy effects of 8-year nitrogen inputs on bacterial assemblage in wheat rhizosphere. Biology and Fertility of Soils, 2020, 56, 583-596.	2.3	35
57	DNA Stable-Isotope Probing Delineates Carbon Flows from Rice Residues into Soil Microbial Communities Depending on Fertilization. Applied and Environmental Microbiology, 2020, 86, .	1.4	34
58	Influence of N form on growth photosynthesis ofPhaseolus vulgaris L. plants. Journal of Plant Nutrition and Soil Science, 2006, 169, 849-856.	1.1	33
59	Exploring the Roles of Aquaporins in Plant–Microbe Interactions. Cells, 2018, 7, 267.	1.8	32
60	Negative effects of the simulated nitrogen deposition on plant phenolic metabolism: A meta-analysis. Science of the Total Environment, 2020, 719, 137442.	3.9	32
61	Evaluation of the grain yield and nitrogen nutrient status of wheat (Triticum aestivum L.) using thermal imaging. Field Crops Research, 2016, 196, 463-472.	2.3	31
62	Leaf photosynthesis is mediated by the coordination of nitrogen and potassium: The importance of anatomical-determined mesophyll conductance to CO2 and carboxylation capacity. Plant Science, 2020, 290, 110267.	1.7	31
63	Effects of Local Nitrogen Supply on Water Uptake of Bean Plants in a Split Root System. Journal of Integrative Plant Biology, 2007, 49, 472-480.	4.1	29
64	Wilted cucumber plants infected by Fusarium oxysporum f. sp. cucumerinum do not suffer from water shortage. Annals of Botany, 2017, 120, 427-436.	1.4	29
65	Effect of fusaric acid on the leaf physiology of cucumber seedlings. European Journal of Plant Pathology, 2014, 138, 103-112.	0.8	28
66	Aquaporin plays an important role in mediating chloroplastic <scp>CO₂</scp> concentration under highâ€N supply in rice (<i>Oryza sativa</i>) plants. Physiologia Plantarum, 2016, 156, 215-226.	2.6	28
67	Detection of the dynamic response of cucumber leaves to fusaric acid using thermal imaging. Plant Physiology and Biochemistry, 2013, 66, 68-76.	2.8	27
68	Active phoD-harboring bacteria are enriched by long-term organic fertilization. Soil Biology and Biochemistry, 2021, 152, 108071.	4.2	27
69	The photosynthetic and structural differences between leaves and siliques of Brassica napus exposed to potassium deficiency. BMC Plant Biology, 2017, 17, 240.	1.6	26
70	Potential role of photosynthesis-related factors in banana metabolism and defense against Fusarium oxysporum f. sp. cubense. Environmental and Experimental Botany, 2016, 129, 4-12.	2.0	25
71	Historical Nitrogen Deposition and Straw Addition Facilitate the Resistance of Soil Multifunctionality to Drying-Wetting Cycles. Applied and Environmental Microbiology, 2019, 85, .	1.4	23
72	Plant Grafting Shapes Complexity and Co-occurrence of Rhizobacterial Assemblages. Microbial Ecology, 2020, 80, 643-655.	1.4	20

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73	Enhanced Salt Tolerance under Nitrate Nutrition is Associated with Apoplast Na ⁺ Content in Canola (<i>Brassica. napus</i> L.) and Rice (<i>Oryza sativa</i> L.) Plants. Plant and Cell Physiology, 2016, 57, 2323-2333.	1.5	19
74	A 1H NMR study of water flow in Phaseolus vulgaris L. roots treated with nitrate or ammonium. Plant and Soil, 2009, 319, 307-321.	1.8	18
75	High water uptake ability was associated with root aerenchyma formation in rice: Evidence from local ammonium supply under osmotic stress conditions. Plant Physiology and Biochemistry, 2020, 150, 171-179.	2.8	18
76	Aquaporin Expression and Water Transport Pathways inside Leaves Are Affected by Nitrogen Supply through Transpiration in Rice Plants. International Journal of Molecular Sciences, 2018, 19, 256.	1.8	17
77	Nitrate Stabilizes the Rhizospheric Fungal Community to Suppress Fusarium Wilt Disease in Cucumber. Molecular Plant-Microbe Interactions, 2020, 33, 590-599.	1.4	17
78	Rare Bacteria Assembly in Soils Is Mainly Driven by Deterministic Processes. Microbial Ecology, 2022, 83, 137-150.	1.4	17
79	The source–sink balance during the grain filling period facilitates rice production under organic fertilizer substitution. European Journal of Agronomy, 2022, 134, 126468.	1.9	17
80	Long-term manure inputs induce a deep selection on agroecosystem soil antibiotic resistome. Journal of Hazardous Materials, 2022, 436, 129163.	6.5	17
81	Difference in Sodium Spatial Distribution in the Shoot of Two Canola Cultivars Under Saline Stress. Plant and Cell Physiology, 2012, 53, 1083-1092.	1.5	16
82	Nutrition-mediated cell and tissue-level anatomy triggers the covariation of leaf photosynthesis and leaf mass per area. Journal of Experimental Botany, 2020, 71, 6524-6537.	2.4	16
83	Are the microbial communities involved in glucose assimilation in paddy soils treated with different fertilization regimes for three years similar?. Journal of Soils and Sediments, 2018, 18, 2476-2490.	1.5	15
84	Nitrate increases ethylene production and aerenchyma formation in roots of lowland rice plants under water stress. Functional Plant Biology, 2017, 44, 430.	1.1	14
85	Nitrogen nutrient index and leaf function affect rice yield and nitrogen efficiency. Plant and Soil, 2019, 445, 7-21.	1.8	14
86	Soil ionomic and enzymatic responses and correlations to fertilizations amended with and without organic fertilizer in long-term experiments. Scientific Reports, 2016, 6, 24559.	1.6	13
87	Zinc and Copper Enhance Cucumber Tolerance to Fusaric Acid by Mediating Its Distribution and Toxicity and Modifying the Antioxidant System. International Journal of Molecular Sciences, 2020, 21, 3370.	1.8	13
88	Redox imbalance contributed differently to membrane damage of cucumber leaves under water stress and Fusarium infection. Plant Science, 2018, 274, 171-180.	1.7	12
89	Nitrogen-inputs regulate microbial functional and genetic resistance and resilience to drying–rewetting cycles, with implications for crop yields. Plant and Soil, 2019, 441, 301-315.	1.8	11
90	Anatomically induced changes in rice leaf mesophyll conductance explain the variation in photosynthetic nitrogen use efficiency under contrasting nitrogen supply. BMC Plant Biology, 2020, 20, 527.	1.6	11

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91	The Potential for Improving Rice Yield and Nitrogen Use Efficiency in Smallholder Farmers: A Case Study of Jiangsu, China. Agronomy, 2020, 10, 419.	1.3	9
92	Nitrate mediated resistance against <i>Fusarium</i> infection in cucumber plants acts via photorespiration. Plant, Cell and Environment, 2021, 44, 3412-3431.	2.8	9
93	Nitrogen improves plant cooling capacity under increased environmental temperature. Plant and Soil, 2022, 472, 329-344.	1.8	9
94	Metaâ€analysis of diazotrophic signatures across terrestrial ecosystems at the continental scale. Environmental Microbiology, 2022, 24, 2013-2028.	1.8	9
95	Higher Radiation Use Efficiency Produces Greater Biomass Before Heading and Grain Yield in Super Hybrid Rice. Agronomy, 2020, 10, 209.	1.3	8
96	The crossâ€kingdom roles of mineral nutrient transporters in plantâ€microbe relations. Physiologia Plantarum, 2021, 171, 771-784.	2.6	7
97	Ammonium enhances the uptake, bioaccumulation, and tolerance of phenanthrene in cucumber seedlings. Plant and Soil, 2012, 354, 185-195.	1.8	6
98	Leaf nitrate accumulation influences the photorespiration of rice (Oryza sativa L.) seedlings. Plant and Soil, 2020, 456, 323-338.	1.8	6
99	Chimeric plants favor asynchrony of conditionally rare bacterial species facilitating functional complementarity in rhizosphere. Biology and Fertility of Soils, 2022, 58, 459-470.	2.3	5
100	Variation in photosynthetic induction between super hybrid rice and inbred super rice. Plant Physiology and Biochemistry, 2022, 178, 105-115.	2.8	3