Shiwei Guo

List of Publications by Year in descending order

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100 papers	8,234 citations	53660 45 h-index	51492 86 g-index
101 all docs	101 docs citations	101 times ranked	7756 citing authors

#	Article	IF	Citations
1	Rare Bacteria Assembly in Soils Is Mainly Driven by Deterministic Processes. Microbial Ecology, 2022, 83, 137-150.	1.4	17
2	Nitrogen improves plant cooling capacity under increased environmental temperature. Plant and Soil, 2022, 472, 329-344.	1.8	9
3	The sourceâ€“sink balance during the grain filling period facilitates rice production under organic fertilizer substitution. European Journal of Agronomy, 2022, 134, 126468.	1.9	17
4	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
5	Metaâ€analysis of diazotrophic signatures across terrestrial ecosystems at the continental scale. Environmental Microbiology, 2022, 24, 2013-2028.	1.8	9
6	Variation in photosynthetic induction between super hybrid rice and inbred super rice. Plant Physiology and Biochemistry, 2022, 178, 105-115.	2.8	3
7	Long-term manure inputs induce a deep selection on agroecosystem soil antibiotic resistome. Journal of Hazardous Materials, 2022, 436, 129163.	6.5	17
8	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
9	Active phoD-harboring bacteria are enriched by long-term organic fertilization. Soil Biology and Biochemistry, 2021, 152, 108071.	4.2	27
10	The crossâ€kingdom roles of mineral nutrient transporters in plantâ€microbe relations. Physiologia Plantarum, 2021, 171, 771-784.	2.6	7
11	Synergistic and antagonistic interactions between potassium and magnesium in higher plants. Crop Journal, 2021, 9, 249-256.	2.3	116
12	Nitrate mediated resistance against Fusarium infection in cucumber plants acts via photorespiration. Plant, Cell and Environment, 2021, 44, 3412-3431.	2.8	9
13	Crop rotation history constrains soil biodiversity and multifunctionality relationships. Agriculture, Ecosystems and Environment, 2021, 319, 107550.	2.5	48
14	Functions of silicon in plant drought stress responses. Horticulture Research, 2021, 8, 254.	2.9	75
15	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
16	Soil fungal assemblage complexity is dependent on soil fertility and dominated by deterministic processes. New Phytologist, 2020, 226, 232-243.	3.5	101
17	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
18	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

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19	Leaf nitrate accumulation influences the photorespiration of rice (Oryza sativa L.) seedlings. Plant and Soil, 2020, 456, 323-338.	1.8	6
20	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
21	Plant Grafting Shapes Complexity and Co-occurrence of Rhizobacterial Assemblages. Microbial Ecology, 2020, 80, 643-655.	1.4	20
22	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
23	Higher Radiation Use Efficiency Produces Greater Biomass Before Heading and Grain Yield in Super Hybrid Rice. Agronomy, 2020, 10, 209.	1.3	8
24	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
25	Nitrate Stabilizes the Rhizospheric Fungal Community to Suppress Fusarium Wilt Disease in Cucumber. Molecular Plant-Microbe Interactions, 2020, 33, 590-599.	1.4	17
26	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
27	Unravelling the Roles of Nitrogen Nutrition in Plant Disease Defences. International Journal of Molecular Sciences, 2020, 21, 572.	1.8	100
28	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
29	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
30	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
31	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
32	Nitrogen-inputs regulate microbial functional and genetic resistance and resilience to dryingâ€“rewetting cycles, with implications for crop yields. Plant and Soil, 2019, 441, 301-315.	1.8	11
33	Nitrogen nutrient index and leaf function affect rice yield and nitrogen efficiency. Plant and Soil, 2019, 445, 7-21.	1.8	14
34	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
35	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
36	Longâ€term 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

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37	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
38	Plant Primary Metabolism Regulated by Nitrogen Contributes to Plantâ€“Pathogen Interactions. Plant and Cell Physiology, 2019, 60, 329-342.	1.5	45
39	Deciphering the associations between soil microbial diversity and ecosystem multifunctionality driven by longâ€term fertilization management. Functional Ecology, 2018, 32, 1103-1116.	1.7	141
40	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
41	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
42	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
43	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
44	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
45	Exploring the Roles of Aquaporins in Plantâ€“Microbe Interactions. Cells, 2018, 7, 267.	1.8	32
46	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
47	Is 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
48	Role of Aquaporins in Determining Carbon and Nitrogen Status in Higher Plants. International Journal of Molecular Sciences, 2018, 19, 35.	1.8	39
49	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
50	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
51	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
52	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
53	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
54	The rice production practices of high yield and high nitrogen use efficiency in Jiangsu, China. Scientific Reports, 2017, 7, 2101.	1.6	51

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55	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
56	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
57	Role of Silicon on Plantâ€“Pathogen Interactions. Frontiers in Plant Science, 2017, 8, 701.	1.7	239
58	Nitrate Increased Cucumber Tolerance to Fusarium Wilt by Regulating Fungal Toxin Production and Distribution. Toxins, 2017, 9, 100.	1.5	40
59	Improving rice population productivity by reducing nitrogen rate and increasing plant density. PLoS ONE, 2017, 12, e0182310.	1.1	68
60	The Interactions of Aquaporins and Mineral Nutrients in Higher Plants. International Journal of Molecular Sciences, 2016, 17, 1229.	1.8	86
61	Root ABA Accumulation Enhances Rice Seedling Drought Tolerance under Ammonium Supply: Interaction with Aquaporins. Frontiers in Plant Science, 2016, 7, 1206.	1.7	64
62	Aquaporin plays an important role in mediating chloroplastic <scp>CO₂</scp> concentration under highâ€N supply in rice (Oryza sativa) plants. Physiologia Plantarum, 2016, 156, 215-226.	2.6	28
63	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
64	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
65	Nitrate Protects Cucumber Plants AgainstFusarium oxysporumby Regulating Citrate Exudation. Plant and Cell Physiology, 2016, 57, 2001-2012.	1.5	37
66	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
67	Enhanced Salt Tolerance under Nitrate Nutrition is Associated with Apoplast Na⁺Content in Canola (Brassica. napusL.) and Rice (Oryza sativaL.) Plants. Plant and Cell Physiology, 2016, 57, 2323-2333.	1.5	19
68	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
69	Water balance altered in cucumber plants infected with Fusarium oxysporum f. sp. cucumerinum. Scientific Reports, 2015, 5, 7722.	1.6	68
70	Water absorption is affected by the nitrogen supply to rice plants. Plant and Soil, 2015, 396, 397-410.	1.8	50
71	Do high nitrogen use efficiency rice cultivars reduce nitrogen losses from paddy fields?. Agriculture, Ecosystems and Environment, 2015, 209, 26-33.	2.5	76
72	The enhanced drought tolerance of rice plants under ammonium is related to aquaporin (AQP). Plant Science, 2015, 234, 14-21.	1.7	103

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73	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
74	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
75	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
76	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
77	Effect of fusaric acid on the leaf physiology of cucumber seedlings. European Journal of Plant Pathology, 2014, 138, 103-112.	0.8	28
78	Producing more grain with lower environmental costs. Nature, 2014, 514, 486-489.	13.7	1,292
79	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
80	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
81	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
82	The Critical Role of Potassium in Plant Stress Response. International Journal of Molecular Sciences, 2013, 14, 7370-7390.	1.8	1,096
83	Does Chloroplast Size Influence Photosynthetic Nitrogen Use Efficiency?. PLoS ONE, 2013, 8, e62036.	1.1	92
84	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
85	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
86	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
87	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
88	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
89	Ammonium enhances the uptake, bioaccumulation, and tolerance of phenanthrene in cucumber seedlings. Plant and Soil, 2012, 354, 185-195.	1.8	6
90	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

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91	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
92	Ammonium nutrition increases water absorption in rice seedlings (Oryza sativa L.) under water stress. Plant and Soil, 2010, 331, 193-201.	1.8	80
93	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
94	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
95	Ammonium enhances the tolerance of rice seedlings (Oryza sativa L.) to drought condition. Agricultural Water Management, 2009, 96, 1746-1750.	2.4	46
96	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
97	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
98	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
99	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
100	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