Xiaorong Fan

List of Publications by Year
in descending order

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Version: 2024-02-01

45 papers	5,034 citations	218677 26 h-index	254184 43 g-index
45 all docs	45 docs citations	45 times ranked	4362 citing authors

#	Article	IF	Citations
1	Plant Nitrogen Assimilation and Use Efficiency. Annual Review of Plant Biology, 2012, 63, 153-182.	18.7	1,446
2	Nitrate transport and signalling. Journal of Experimental Botany, 2007, 58, 2297-2306.	4.8	456
3	Overexpression of a pH-sensitive nitrate transporter in rice increases crop yields. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7118-7123.	7.1	309
4	Spatial expression and regulation of rice high-affinity nitrate transporters by nitrogen and carbon status. Journal of Experimental Botany, 2011, 62, 2319-2332.	4.8	280
5	Rice OsNAR2.1 interacts with OsNRT2.1, OsNRT2.2 and OsNRT2.3a nitrate transporters to provide uptake over high and low concentration ranges. Plant, Cell and Environment, 2011, 34, 1360-1372.	5.7	257
6	Plant nitrate transporters: from gene function to application. Journal of Experimental Botany, 2017, 68, 2463-2475.	4.8	237
7	Knockdown of a Rice Stelar Nitrate Transporter Alters Long-Distance Translocation But Not Root Influx Â Â. Plant Physiology, 2012, 160, 2052-2063.	4.8	201
8	Overâ€expression of OsPIN2 leads to increased tiller numbers, angle and shorter plant height through suppression of OsLAZY1. Plant Biotechnology Journal, 2012, 10, 139-149.	8.3	191
9	Agronomic nitrogenâ€use efficiency of rice can be increased by driving Os<scp>NRT</scp>2.1 expression with the Os<scp>NAR</scp>2.1 promoter. Plant Biotechnology Journal, 2016, 14, 1705-1715.	8.3	169
10	Rice nitrate transporter OsNPF2.4 functions in low-affinity acquisition and long-distance transport. Journal of Experimental Botany, 2015, 66, 317-331.	4.8	140
11	The Electrochemical Properties of Biochars and How They Affect Soil Redox Properties and Processes. Agronomy, 2015, 5, 322-340.	3.0	122
12	Involvement of <scp>O</scp>s<scp>P</scp>ht1;4 in phosphate acquisition and mobilization facilitates embryo development in rice. Plant Journal, 2015, 82, 556-569.	5.7	116
13	<scp>pOsNAR</scp>2.1:Os<scp>NAR</scp>2.1 expression enhances nitrogen uptake efficiency and grain yield in transgenic rice plants. Plant Biotechnology Journal, 2017, 15, 1273-1283.	8.3	104
14	Over-expression of OsPTR6 in rice increased plant growth at different nitrogen supplies but decreased nitrogen use efficiency at high ammonium supply. Plant Science, 2014, 227, 1-11.	3.6	90
15	OsNRT2.4 encodes a dual-affinity nitrate transporter and functions in nitrate-regulated root growth and nitrate distribution in rice. Journal of Experimental Botany, 2018, 69, 1095-1107.	4.8	84
16	A putative 6â€transmembrane nitrate transporter OsNRT1.1b plays a key role in rice under low nitrogen. Journal of Integrative Plant Biology, 2016, 58, 590-599.	8.5	82
17	A Transcription Factor, OsMADS57, Regulates Long-Distance Nitrate Transport and Root Elongation. Plant Physiology, 2019, 180, 882-895.	4.8	60
18	Identification and functional assay of the interaction motifs in the partner protein <scp>O</scp>s<scp>NAR</scp>2.1 of the twoâ€component system for highâ€affinity nitrate transport. New Phytologist, 2014, 204, 74-80.	7.3	58

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19	Co-Overexpression of OsNAR2.1 and OsNRT2.3a Increased Agronomic Nitrogen Use Efficiency in Transgenic Rice Plants. Frontiers in Plant Science, 2020, 11, 1245.	3.6	57
20	Knock-Down of a Tonoplast Localized Low-Affinity Nitrate Transporter OsNPF7.2 Affects Rice Growth under High Nitrate Supply. Frontiers in Plant Science, 2016, 7, 1529.	3.6	48
21	A rice microsomal delta-12 fatty acid desaturase can enhance resistance to cold stress in yeast and Oryza sativa. Molecular Breeding, 2012, 29, 743-757.	2.1	45
22	OsPIN9, an auxin efflux carrier, is required for the regulation of rice tiller bud outgrowth by ammonium. New Phytologist, 2021, 229, 935-949.	7.3	43
23	OsNAR2.1 Positively Regulates Drought Tolerance and Grain Yield Under Drought Stress Conditions in Rice. Frontiers in Plant Science, 2019, 10, 197.	3.6	42
24	Overexpression of the nitrate transporter, OsNRT2.3b, improves rice phosphorus uptake and translocation. Plant Cell Reports, 2017, 36, 1287-1296.	5.6	41
25	Knockdown of the partner protein OsNAR2.1 for high-affinity nitrate transport represses lateral root formation in a nitrate-dependent manner. Scientific Reports, 2015, 5, 18192.	3.3	39
26	A Rice Autophagy Gene OsATG8b Is Involved in Nitrogen Remobilization and Control of Grain Quality. Frontiers in Plant Science, 2020, 11, 588.	3.6	38
27	Overexpression of Nitrate Transporter OsNRT2.1 Enhances Nitrate-Dependent Root Elongation. Genes, 2019, 10, 290.	2.4	35
28	Rice Sucrose Partitioning Mediated by a Putative Pectin Methyltransferase and Homogalacturonan Methylesterification. Plant Physiology, 2017, 174, 1595-1608.	4.8	25
29	Strigolactones affect the translocation of nitrogen in rice. Plant Science, 2018, 270, 190-197.	3.6	25
30	Root aeration improves growth and nitrogen accumulation in rice seedlings under low nitrogen. AoB PLANTS, 2015, 7, plv131.	2.3	24
31	OsNAR2.1 Interaction with OsNIT1 and OsNIT2 Functions in Root-growth Responses to Nitrate and Ammonium. Plant Physiology, 2020, 183, 289-303.	4.8	23
32	Optimizing plant transporter expression in Xenopus oocytes. Plant Methods, 2013, 9, 48.	4.3	21
33	Rapid Generation of Barley Mutant Lines With High Nitrogen Uptake Efficiency by Microspore Mutagenesis and Field Screening. Frontiers in Plant Science, 2018, 9, 450.	3.6	18
34	Overexpression of the High-Affinity Nitrate Transporter OsNRT2.3b Driven by Different Promoters in Barley Improves Yield and Nutrient Uptake Balance. International Journal of Molecular Sciences, 2020, 21, 1320.	4.1	17
35	Limited aerenchyma reduces oxygen diffusion and methane emission in paddy. Journal of Environmental Management, 2021, 279, 111583.	7.8	14
36	Genome-Wide Identification and Characterization of GASA Gene Family in Nicotiana tabacum. Frontiers in Genetics, 2021, 12, 768942.	2.3	14

#	Article	IF	Citations
37	Rice Seedling Growth Promotion by Biochar Varies With Genotypes and Application Dosages. Frontiers in Plant Science, 2021, 12, 580462.	3.6	13
38	Genetic and Global Epigenetic Modification, Which Determines the Phenotype of Transgenic Rice?. International Journal of Molecular Sciences, 2020, 21, 1819.	4.1	12
39	Reducing phenanthrene uptake and translocation, and accumulation in the seeds by overexpressing OsNRT2.3b in rice. Science of the Total Environment, 2021, 761, 143690.	8.0	10
40	The effects of biochar soil amendment on rice growth may vary greatly with rice genotypes. Science of the Total Environment, 2022, 810, 152223.	8.0	10
41	Plant DNA methylation is sensitive to parent seed N content and influences the growth of rice. BMC Plant Biology, 2021, 21, 211.	3.6	7
42	Knockdown of a Novel Gene OsTBP2.2 Increases Sensitivity to Drought Stress in Rice. Genes, 2020, 11, 629.	2.4	6
43	OsLSD1.1 is involved in the photosystem II reaction and affects nitrogen allocation in rice. Plant Physiology and Biochemistry, 2021, 166, 246-257.	5.8	5
44	Modulation of Growth Duration, Grain Yield and Nitrogen Recovery Efficiency by EMS Mutagenesis under OsNRT2.3b Overexpression Background in Rice. Agriculture (Switzerland), 2022, 12, 799.	3.1	0
45	Effects of Carbon and Nitrogen Fertilisers on Rice Quality of the OsNRT2.3b-Overexpressing Line. Agriculture (Switzerland), 2022, 12, 802.	3.1	0