Fangsen Xu

List of Publications by Year
in descending order

50 papers	1,727 citations	279798 23 h-index	302126 39 g-index
53 all docs	53 docs citations	53 times ranked	1394 citing authors

#	Article	IF	Citations
1	Plant Nutriomics in China: An Overview. Annals of Botany, 2006, 98, 473-482.	2.9	167
2	Quantitative trait loci for seed yield and yield-related traits, and their responses to reduced phosphorus supply in Brassica napus. Annals of Botany, 2012, 109, 747-759.	2.9	132
3	Quantitative trait loci for root morphology in response to low phosphorus stress in Brassica napus. Theoretical and Applied Genetics, 2010, 121, 181-193.	3.6	90
4	A high activity zinc transporter OsZIP9 mediates zinc uptake in rice. Plant Journal, 2020, 103, 1695-1709.	5.7	81
5	Transcriptomicsâ€assisted quantitative trait locus fine mapping for the rapid identification of a nodulin 26â€like intrinsic protein gene regulating boron efficiency in allotetraploid rapeseed. Plant, Cell and Environment, 2016, 39, 1601-1618.	5.7	71
6	The boron transporter <i>BnaC4.BOR1;1c</i> is critical for inflorescence development and fertility under boron limitation in <scp><i>Brassica napus</i></scp>. Plant, Cell and Environment, 2017, 40, 1819-1833.	5.7	69
7	Detection of QTL for phosphorus efficiency at vegetative stage in Brassica napus. Plant and Soil, 2011, 339, 97-111.	3.7	63
8	A High-Density Genetic Map Identifies a Novel Major QTL for Boron Efficiency in Oilseed Rape (Brassica) Tj ETQq0 0 0 rgBT /Overlock 10	2.5	60
9	QTL meta-analysis of root traits in Brassica napus under contrasting phosphorus supply in two growth systems. Scientific Reports, 2016, 6, 33113.	3.3	55
10	Physiological and genetic responses to boron deficiency in<i>Brassica napus</i>: A review. Soil Science and Plant Nutrition, 2014, 60, 304-313.	1.9	54
11	Genome-Wide Identification and Characterization of the Aquaporin Gene Family and Transcriptional Responses to Boron Deficiency in Brassica napus. Frontiers in Plant Science, 2017, 8, 1336.	3.6	54
12	Identification and characterization of improved nitrogen efficiency in interspecific hybridized new-type Brassica napus. Annals of Botany, 2014, 114, 549-559.	2.9	52
13	Genetic variants associated with the root system architecture of oilseed rape (Brassica napus L.) under contrasting phosphate supply. DNA Research, 2017, 24, 407-417.	3.4	52
14	Purple acid phosphatase 10c encodes a major acid phosphatase that regulates plant growth under phosphate-deficient conditions in rice. Journal of Experimental Botany, 2020, 71, 4321-4332.	4.8	48
15	Transcription factor BnaA9.WRKY47 contributes to the adaptation of <i>Brassica napus</i> to low boron stress by upâ€regulating the boric acid channel gene <i>BnaA3.NIP5;1</i>. Plant Biotechnology Journal, 2020, 18, 1241-1254.	8.3	47
16	QTL for Yield Traits and Their Association with Functional Genes in Response to Phosphorus Deficiency in Brassica napus. PLoS ONE, 2013, 8, e54559.	2.5	43
17	Comparative genome and transcriptome analysis unravels key factors of nitrogen use efficiency in <scp><i>Brassica napus</i></scp> L. Plant, Cell and Environment, 2020, 43, 712-731.	5.7	41
18	Physiological, genomic and transcriptional diversity in responses to boron deficiency in rapeseed genotypes. Journal of Experimental Botany, 2016, 67, 5769-5784.	4.8	38

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19	Cloning and characterization of boron transporters in Brassica napus. Molecular Biology Reports, 2012, 39, 1963-1973.	2.3	37
20	Physiological and Transcriptional Analyses Reveal Differential Phytohormone Responses to Boron Deficiency in Brassica napus Genotypes. Frontiers in Plant Science, 2016, 7, 221.	3.6	36
21	Molecular identification of the phosphate transporter family 1 (PHT1) genes and their expression profiles in response to phosphorus deprivation and other abiotic stresses in Brassica napus. PLoS ONE, 2019, 14, e0220374.	2.5	33
22	INHERITANCE OF BORON NUTRITION EFFICIENCY INBRASSICA NAPUS. Journal of Plant Nutrition, 2002, 25, 901-912.	1.9	31
23	Boron Nutrition and Boron Application in Crops. , 2007, , 93-101.		27
24	Effect of boron deficiency on anatomical structure and chemical composition of petioles and photosynthesis of leaves in cotton (Gossypium hirsutum L.). Scientific Reports, 2017, 7, 4420.	3.3	26
25	Genome-scale mRNA transcriptomic insights into the responses of oilseed rape (Brassica napus L.) to varying boron availabilities. Plant and Soil, 2017, 416, 205-225.	3.7	25
26	Genome-Wide Systematic Characterization of the NPF Family Genes and Their Transcriptional Responses to Multiple Nutrient Stresses in Allotetraploid Rapeseed. International Journal of Molecular Sciences, 2020, 21, 5947.	4.1	22
27	Rice <scp>ACID PHOSPHATASE</scp> 1 regulates Pi stress adaptation by maintaining intracellular Pi homeostasis. Plant, Cell and Environment, 2022, 45, 191-205.	5.7	19
28	High level of zinc triggers phosphorus starvation by inhibiting root-to-shoot translocation and preferential distribution of phosphorus in rice plants. Environmental Pollution, 2021, 277, 116778.	7.5	18
29	The Xyloglucan Endotransglucosylase/Hydrolase Gene XTH22/TCH4 Regulates Plant Growth by Disrupting the Cell Wall Homeostasis in Arabidopsis under Boron Deficiency. International Journal of Molecular Sciences, 2022, 23, 1250.	4.1	18
30	Brassica napus root mutants insensitive to exogenous cytokinin show phosphorus efficiency. Plant and Soil, 2012, 358, 61-74.	3.7	17
31	Genome-wide association study dissects the genetic control of plant height and branch number in response to low-phosphorus stress in <i>Brassica napus</i>. Annals of Botany, 2021, 128, 919-930.	2.9	17
32	Boron deficiencyâ€induced root growth inhibition is mediated by brassinosteroid signalling regulation in Arabidopsis. Plant Journal, 2021, 107, 564-578.	5.7	16
33	The rapeseed genotypes with contrasting NUE response discrepantly to varied provision of ammonium and nitrate by regulating photosynthesis, root morphology, nutritional status, and oxidative stress response. Plant Physiology and Biochemistry, 2021, 166, 348-360.	5.8	15
34	Characterization of phosphorus starvation-induced gene BnSPX3 in Brassica napus. Plant and Soil, 2012, 350, 339-351.	3.7	14
35	JASMONATE RESISTANT 1 negatively regulates root growth under boron deficiency in Arabidopsis. Journal of Experimental Botany, 2021, 72, 3108-3121.	4.8	14
36	Integrating a genome-wide association study with transcriptomic data to predict candidate genes and favourable haplotypes influencing <i>Brassica napus</i> seed phytate. DNA Research, 2021, 28, .	3.4	14

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37	Genetic variation of BnaA3.NIP5;1 expressing in the lateral root cap contributes to boron deficiency tolerance in Brassica napus. PLoS Genetics, 2021, 17, e1009661.	3.5	13
38	Integrated transcriptome and metabolome analysis reveals the physiological and molecular responses of allotetraploid rapeseed to ammonium toxicity. Environmental and Experimental Botany, 2021, 189, 104550.	4.2	11
39	Accumulation of ammonium and reactive oxygen mediated drought-induced rice growth inhibition by disturbed nitrogen metabolism and photosynthesis. Plant and Soil, 2018, 431, 107-117.	3.7	10
40	The Effects of Condensed Molasses Soluble on the Growth and Development of Rapeseed through Seed Germination, Hydroponics and Field Trials. Agriculture (Switzerland), 2020, 10, 260.	3.1	10
41	Effect of balanced application of boron and phosphorus fertilizers on soil bacterial community, seed yield and phosphorus use efficiency of Brassica napus. Science of the Total Environment, 2021, 751, 141644.	8.0	10
42	Repression of transcription factor AtWRKY47 confers tolerance to boron toxicity in Arabidopsis thaliana. Ecotoxicology and Environmental Safety, 2021, 220, 112406.	6.0	9
43	Boron and Phosphorus Act Synergistically to Modulate Absorption and Distribution of Phosphorus and Growth of <i>Brassica napus</i>. Journal of Agricultural and Food Chemistry, 2020, 68, 7830-7838.	5.2	8
44	Effects of different nitrogen application rates on the quality and metabolomics of cigar tobacco. Agronomy Journal, 2022, 114, 1155-1167.	1.8	8
45	Vascular tissue-specific expression of BnaC4.BOR1;1c, an efflux boron transporter gene, is regulated in response to boron availability for efficient boron acquisition in Brassica napus. Plant and Soil, 2021, 465, 171-184.	3.7	7
46	Dynamic transcriptome analysis indicates extensive and discrepant transcriptomic reprogramming of two rapeseed genotypes with contrasting NUE in response to nitrogen deficiency. Plant and Soil, 2020, 456, 369-390.	3.7	6
47	Genotypic differences in the synergistic effect of nitrogen and boron on the seed yield and nitrogen use efficiency of <i>Brassica napus</i>. Journal of the Science of Food and Agriculture, 2022, 102, 3563-3571.	3.5	6
48	Specific and multipleâ€target gene silencing reveals function diversity of <i><scp>BnaA2</scp>.<scp>NIP5</scp>;1</i> and <i><scp>BnaA3</scp>.<scp>NIP5</scp>;1</i> in <i>Brassica napus</i>. Plant, Cell and Environment, 2021, 44, 3184-3194.	5.7	3
49	Genetic Control of Seed Phytate Accumulation and the Development of Low-Phytate Crops: A Review and Perspective. Journal of Agricultural and Food Chemistry, 2022, 70, 3375-3390.	5.2	3
50	Improved the Activity of Phosphite Dehydrogenase and its Application in Plant Biotechnology. Frontiers in Bioengineering and Biotechnology, 2021, 9, 764188.	4.1	1