Mamoru Okamoto

List of Publications by Year
in descending order

36 papers	4,432 citations	24 h-index (257101)	33 g-index (395343)
39 all docs	39 docs citations	39 times ranked	4437 citing authors

#	Article	IF	Citations
1	Identification of a Plant Nitric Oxide Synthase Gene Involved in Hormonal Signaling. Science, 2003, 302, 100-103.	6.0	812
2	Microarray Analysis of the Nitrate Response in Arabidopsis Roots and Shoots Reveals over 1,000 Rapidly Responding Genes and New Linkages to Glucose, Trehalose-6-Phosphate, Iron, and Sulfate Metabolism Â. Plant Physiology, 2003, 132, 556-567.	2.3	611
3	The regulation of nitrate and ammonium transport systems in plants. Journal of Experimental Botany, 2002, 53, 855-864.	2.4	391
4	Regulation of NRT1 and NRT2 Gene Families of Arabidopsis thaliana: Responses to Nitrate Provision. Plant and Cell Physiology, 2003, 44, 304-317.	1.5	333
5	Dissection of the AtNRT2.1:AtNRT2.2 Inducible High-Affinity Nitrate Transporter Gene Cluster. Plant Physiology, 2007, 143, 425-433.	2.3	330
6	Regulation of a putative highâ€affinity nitrate transporter (Nrt2;1At) in roots of Arabidopsis thaliana. Plant Journal, 1999, 17, 563-568.	2.8	261
7	Response to Zemojtel et al: Plant nitric oxide synthase: back to square one. Trends in Plant Science, 2006, 11, 526-527.	4.3	246
8	High-Affinity Nitrate Transport in Roots of Arabidopsis Depends on Expression of the NAR2-Like Gene AtNRT3.1. Plant Physiology, 2006, 140, 1036-1046.	2.3	239
9	The Genetics of Nitrogen Use Efficiency in Crop Plants. Annual Review of Genetics, 2015, 49, 269-289.	3.2	217
10	Differential expression of three members of the AMT1 gene family encoding putative high-affinity NH4 + transporters in roots of Oryza sativa subspecies indica. Plant, Cell and Environment, 2003, 26, 907-914.	2.8	105
11	Rice DUR3 mediates highâ€affinity urea transport and plays an effective role in improvement of urea acquisition and utilization when expressed in <i>Arabidopsis</i>. New Phytologist, 2012, 193, 432-444.	3.5	104
12	Soybean <i>SAT1</i> (<i>Symbiotic Ammonium Transporter 1</i>) encodes a bHLH transcription factor involved in nodule growth and NH ₄ ⁺ transport. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4814-4819.	3.3	92
13	GABA signalling modulates stomatal opening to enhance plant water use efficiency and drought resilience. Nature Communications, 2021, 12, 1952.	5.8	92
14	Genetic approaches to enhancing nitrogen-use efficiency (NUE) in cereals: challenges and future directions. Functional Plant Biology, 2015, 42, 921.	1.1	75
15	Aluminum-Activated Malate Transporters Can Facilitate GABA Transport. Plant Cell, 2018, 30, 1147-1164.	3.1	71
16	Detecting spikes of wheat plants using neural networks with Laws texture energy. Plant Methods, 2017, 13, 83.	1.9	61
17	Nitrate uptake and its regulation in relation to improving nitrogen use efficiency in cereals. Seminars in Cell and Developmental Biology, 2018, 74, 97-104.	2.3	43
18	Interference with the citrullineâ€based nitric oxide synthase assay by argininosuccinate lyase activity in <i>Arabidopsis</i> extracts. FEBS Journal, 2007, 274, 4238-4245.	2.2	42

#	Article	IF	Citations
19	Opposite fates of the purine metabolite allantoin under water and nitrogen limitations in bread wheat. Plant Molecular Biology, 2019, 99, 477-497.	2.0	41
20	Evaluation of Australian wheat genotypes for response to variable nitrogen application. Plant and Soil, 2016, 399, 247-255.	1.8	31
21	RNA Catabolites Contribute to the Nitrogen Pool and Support Growth Recovery of Wheat. Frontiers in Plant Science, 2018, 9, 1539.	1.7	29
22	Improving Nitrogen Use Efficiency Through Overexpression of Alanine Aminotransferase in Rice, Wheat, and Barley. Frontiers in Plant Science, 2021, 12, 628521.	1.7	27
23	Quantifying the Onset and Progression of Plant Senescence by Color Image Analysis for High Throughput Applications. PLoS ONE, 2016, 11, e0157102.	1.1	26
24	Antimicrobial DNA-binding Photosensitizers from the Common Rush, Juncus effususÂ¶. Photochemistry and Photobiology, 2002, 76, 51-56.	1.3	25
25	The Genetic Control of Grain Protein Content under Variable Nitrogen Supply in an Australian Wheat Mapping Population. PLoS ONE, 2016, 11, e0159371.	1.1	25
26	Genetic Basis for Variation in Wheat Grain Yield in Response to Varying Nitrogen Application. PLoS ONE, 2016, 11, e0159374.	1.1	25
27	Strategies for engineering improved nitrogen use efficiency in crop plants via redistribution and recycling of organic nitrogen. Current Opinion in Biotechnology, 2022, 73, 263-269.	3.3	19
28	Molecular genetics to discover and improve nitrogen use efficiency in crop plants. , 2017, , 93-122.		11
29	Understanding the Interactions between Biomass, Grain Production and Grain Protein Content in High and Low Protein Wheat Genotypes under Controlled Environments. Agronomy, 2019, 9, 706.	1.3	10
30	Strengths and Weaknesses of National Variety Trial Data for Multi-Environment Analysis: A Case Study on Grain Yield and Protein Content. Agronomy, 2020, 10, 753.	1.3	10
31	Antimicrobial DNA-binding photosensitizers from the common rush, Juncus effusus. Photochemistry and Photobiology, 2002, 76, 51-6.	1.3	10
32	Determination of the Essentiality of the Eight Cysteine Residues of the NrtA Protein for High-Affinity Nitrate Transport and the Generation of a Functional Cysteine-less Transporter. Biochemistry, 2005, 44, 5471-5477.	1.2	7
33	Exploring the potential for top-dressing bread wheat with ammonium chloride to minimize grain yield losses under drought. Soil Science and Plant Nutrition, 2018, 64, 642-652.	0.8	5
34	Inhibition of Restriction Enzyme's DNA Sequence Recognition by PUVA Treatmentâ€Â¶. Photochemistry and Photobiology, 2001, 74, 269.	1.3	1
35	Inhibition of restriction enzyme's DNA sequence recognition by PUVA treatment. Nucleic Acids Symposium Series, 2003, 3, 297-298.	0.3	0
36	Inhibition of Restriction Enzyme's DNA Sequence Recognition by PUVA Treatmentâ€Â¶. Photochemistry and Photobiology, 2007, 74, 269-273.	1.3	0