Jun Wasaki

List of Publications by Year
in descending order

61 papers	2,631 citations	172207 29 h-index	197535 49 g-index
63 all docs	63 docs citations	63 times ranked	2862 citing authors

#	Article	IF	Citations
1	Analysis of bacterial communities on alkaline phosphatase genes in soil supplied with organic matter. Soil Science and Plant Nutrition, 2008, 54, 62-71.	0.8	190
2	Secreted acid phosphatase is expressed in cluster roots of lupin in response to phosphorus deficiency. Plant and Soil, 2003, 248, 129-136.	1.8	142
3	Endogenous hormones and expression of senescence-related genes in different senescent types of maize. Journal of Experimental Botany, 2005, 56, 1117-1128.	2.4	140
4	Low Phosphorus Tolerance Mechanisms: Phosphorus Recycling and Photosynthate Partitioning in the Tropical Forage Grass, Brachiaria Hybrid Cultivar Mulato Compared with Rice. Plant and Cell Physiology, 2004, 45, 460-469.	1.5	127
5	Transcriptomic analysis indicates putative metabolic changes caused by manipulation of phosphorus availability in rice leaves. Journal of Experimental Botany, 2006, 57, 2049-2059.	2.4	120
6	Plant growth promotion abilities and microscale bacterial dynamics in the rhizosphere of Lupin analysed by phytate utilization ability. Environmental Microbiology, 2005, 7, 396-404.	1.8	119
7	Secreted acid phosphatase is expressed in cluster roots of lupin in response to phosphorus deficiency. , 2003, , 129-136.		99
8	Expression of the OsPI1 gene, cloned from rice roots using cDNA microarray, rapidly responds to phosphorus status. New Phytologist, 2003, 158, 239-248.	3.5	85
9	New microbial mannan catabolic pathway that involves a novel mannosylglucose phosphorylase. Biochemical and Biophysical Research Communications, 2011, 408, 701-706.	1.0	85
10	Metabolic alterations proposed by proteome in rice roots grown under low P and high Al concentration under low pH. Plant Science, 2007, 172, 1157-1165.	1.7	81
11	Recent Progress in Plant Nutrition Research: Cross-Talk Between Nutrients, Plant Physiology and Soil Microorganisms. Plant and Cell Physiology, 2010, 51, 1255-1264.	1.5	74
12	Molecular mechanisms underpinning phosphorusâ€use efficiency in rice. Plant, Cell and Environment, 2018, 41, 1483-1496.	2.8	74
13	Root Exudation, Phosphorus Acquisition, and Microbial Diversity in the Rhizosphere of White Lupine as Affected by Phosphorus Supply and Atmospheric Carbon Dioxide Concentration. Journal of Environmental Quality, 2005, 34, 2157-2166.	1.0	72
14	Recent insights into the metabolic adaptations of phosphorus-deprived plants. Journal of Experimental Botany, 2021, 72, 199-223.	2.4	69
15	Interspecific facilitation of P acquisition in intercropping of maize with white lupin in two contrasting soils as influenced by different rates and forms of P supply. Plant and Soil, 2015, 390, 223-236.	1.8	67
16	Organic acid excretion from roots: a plant mechanism for enhancing phosphorus acquisition, enhancing aluminum tolerance, and recruiting beneficial rhizobacteria. Soil Science and Plant Nutrition, 2018, 64, 697-704.	0.8	66
17	Isolation and Characterization of Cellulose-decomposing Bacteria Inhabiting Sawdust and Coffee Residue Composts. Microbes and Environments, 2012, 27, 226-233.	0.7	62
18	Cloning and characterization of four phosphate transporter cDNAs in tobacco. Plant Science, 2002, 163, 837-846.	1.7	58

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19	Identification of the Cellobiose 2-Epimerase Gene in the Genome of<i>Bacteroides fragilis</i>NCTC 9343. Bioscience, Biotechnology and Biochemistry, 2009, 73, 400-406.	0.6	54
20	Overexpression of the<i>LASAP2</i>gene for secretory acid phosphatase in white lupin improves the phosphorus uptake and growth of tobacco plants. Soil Science and Plant Nutrition, 2009, 55, 107-113.	0.8	54
21	Leaf manganese concentrations as a tool to assess belowground plant functioning in phosphorus-impoverished environments. Plant and Soil, 2021, 461, 43-61.	1.8	52
22	Cloning and sequencing of the gene for cellobiose 2-epimerase from a ruminal strain of<i>Eubacterium cellulosolvens</i>. FEMS Microbiology Letters, 2008, 287, 34-40.	0.7	50
23	Structure of a cDNA for an acid phosphatase from phosphate-deficient lupin (Lupinus albusL.) Roots. Soil Science and Plant Nutrition, 1999, 45, 439-449.	0.8	47
24	Cloning and sequencing of the cellobiose 2-epimerase gene from an obligatory anaerobe, Ruminococcus albus. Biochemical and Biophysical Research Communications, 2007, 360, 640-645.	1.0	47
25	Effects of Epilactose on Calcium Absorption and Serum Lipid Metabolism in Rats. Journal of Agricultural and Food Chemistry, 2008, 56, 10340-10345.	2.4	40
26	Element interconnections inLotus japonicus: A systematic study of the effects of element additions on different natural variants. Soil Science and Plant Nutrition, 2009, 55, 91-101.	0.8	36
27	Structure of Novel Enzyme in Mannan Biodegradation Process 4-O-Î²-d-Mannosyl-d-Glucose Phosphorylase MGP. Journal of Molecular Biology, 2013, 425, 4468-4478.	2.0	34
28	The mannobiose-forming exo-mannanase involved in a new mannan catabolic pathway in Bacteroides fragilis. Archives of Microbiology, 2014, 196, 17-23.	1.0	34
29	Localization of acid phosphatase activities in the roots of white lupin plants grown under phosphorus-deficient conditions. Soil Science and Plant Nutrition, 2008, 54, 95-102.	0.8	33
30	Ancient rice cultivar extensively replaces phospholipids with nonâ€phosphorus glycolipid under phosphorus deficiency. Physiologia Plantarum, 2018, 163, 297-305.	2.6	31
31	Properties of secretory acid phosphatase from lupin roots under phosphorus-deficient conditions. Soil Science and Plant Nutrition, 1997, 43, 981-986.	0.8	30
32	Influence of arsenic stress on synthesis and localization of low-molecular-weight thiols in Pteris vittata. Environmental Pollution, 2010, 158, 3663-3669.	3.7	28
33	AtALMT3 is Involved in Malate Efflux Induced by Phosphorus Deficiency in<i>Arabidopsis thaliana</i>Root Hairs. Plant and Cell Physiology, 2019, 60, 107-115.	1.5	28
34	Secreting portion of acid phosphatase in roots of Lupin (Lupinus albusL.) and a key signal for the secretion from the roots. Soil Science and Plant Nutrition, 1999, 45, 937-945.	0.8	24
35	Characteristics of phosphoenolpyruvate phosphatase purified from Allium cepa. Plant Science, 2001, 161, 861-869.	1.7	22
36	P and N deficiency change the relative abundance and function of rhizosphere microorganisms during cluster root development of white lupin (<i>Lupinus albus</i> L.). Soil Science and Plant Nutrition, 2018, 64, 686-696.	0.8	22

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37	Evaluation of Cellulolytic and Hemicellulolytic Abilities of Fungi Isolated from Coffee Residue and Sawdust Composts. Microbes and Environments, 2011, 26, 220-227.	0.7	21
38	The Function of a Maize-Derived Phosphoenolpyruvate Carboxylase (PEPC) in Phosphorus-Deficient Transgenic Rice. Soil Science and Plant Nutrition, 2005, 51, 497-506.	0.8	19
39	Effects of different phosphorus-efficient legumes and soil texture on fractionated rhizosphere soil phosphorus of strongly weathered soils. Biology and Fertility of Soils, 2016, 52, 367-376.	2.3	18
40	Organ-specific allocation pattern of acquired phosphorus and dry matter in two rice genotypes with contrasting tolerance to phosphorus deficiency. Soil Science and Plant Nutrition, 2018, 64, 282-290.	0.8	18
41	Effect of exogenous phosphatase and phytase activities on organic phosphate mobilization in soils with different phosphate adsorption capacities. Soil Science and Plant Nutrition, 2012, 58, 41-51.	0.8	17
42	Landrace of japonica rice, Akamai exhibits enhanced root growth and efficient leaf phosphorus remobilization in response to limited phosphorus availability. Plant and Soil, 2017, 414, 327-338.	1.8	16
43	Phytate Degradation by Fungi and Bacteria that Inhabit Sawdust and Coffee Residue Composts. Microbes and Environments, 2013, 28, 71-80.	0.7	15
44	PHOSPHORUS-MOBILIZATION STRATEGY BASED ON CARBOXYLATE EXUDATION IN LUPINS (LUPINUS,) Tj ETQq0 0 0 rgBT /Overlock 10 PLANTS UNDER PHOSPHORUS-LIMITED CONDITIONS. Experimental Agriculture, 2017, 53, 308-319.	0.4	14
45	Properties of secretory acid phosphatase from lupin roots under phosphorus-deficient conditions. , 1997, , 295-300.		12
46	Biotransformation of (+)-catechin into taxifolin by a two-step oxidation: Primary stage of (+)-catechin metabolism by a novel (+)-catechin-degrading bacteria, Burkholderia sp. KTC-1, isolated from tropical peat. Biochemical and Biophysical Research Communications, 2008, 366, 414-419.	1.0	12
47	Compost amendment enhances population and composition of phosphate solubilizing bacteria and improves phosphorus availability in granitic regosols. Soil Science and Plant Nutrition, 2011, 57, 529-540.	0.8	11
48	Identification and distribution of cellobiose 2-epimerase genes by a PCR-based metagenomic approach. Applied Microbiology and Biotechnology, 2015, 99, 4287-4295.	1.7	10
49	Identification of genomic regions associated with low phosphorus tolerance in <i>japonica</i> rice (<i>Oryza sativa</i> L.) by QTL-Seq. Soil Science and Plant Nutrition, 2018, 64, 278-281.	0.8	9
50	Effects of White Lupin and Groundnut on Fractionated Rhizosphere Soil P of Different P-Limited Soil Types in Japan. Agronomy, 2019, 9, 68.	1.3	9
51	Formation of dauciform roots by Japanese native Cyperaceae and their contribution to phosphorus dynamics in soils. Plant and Soil, 2021, 461, 107-118.	1.8	7
52	Multiple analysis of root exudates and microbiome in rice (Oryza sativa) under low P conditions. Archives of Microbiology, 2021, 203, 5599-5611.	1.0	7
53	Possibility of rhizosphere regulation using acid phosphatase and organic acid for recycling phosphorus in sewage sludge. Soil Science and Plant Nutrition, 2004, 50, 77-83.	0.8	5
54	Production of Lupin Acid Phosphatase in Transgenic Rice for Use as a Phytate-hydrolyzing Enzyme in Animal Feed. Bioscience, Biotechnology and Biochemistry, 2004, 68, 1611-1616.	0.6	3

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55	Molecular Approaches to the Study of Biological Phosphorus Cycling. Soil Biology, 2011, , 93-111.	0.6	3
56	Transgenic approaches for improving phosphorus use efficiency in plants. , 2017, , 323-338.		3
57	Complementarity of two distinct phosphorus acquisition strategies in maize-white lupine intercropping system under limited phosphorus availability. Journal of Crop Improvement, 2021, 35, 234-249.	0.9	2
58	Ethylene works as a possible regulator for the rootlet elongation and transcription of genes for phosphorus acquisition in cluster roots of <i>Lupinus albus</i> L.. Soil Science and Plant Nutrition, 2022, 68, 383-392.	0.8	2
59	Breeding Wheat for Zinc Efficiency Improvement in Semi-arid Climate-A Review. Tropics, 2003, 12, 295-312.	0.2	1
60	Preface to special section â€˜Frontline in the rhizosphere research involved in phosphorus: for efficient use of unavailable P in soils (Rhizo-P)â€™. Soil Science and Plant Nutrition, 2018, 64, 277-277.	0.8	0
61	Possible solubilization of various mineral elements in the rhizosphere of Lupinus albus L.. Soil Science and Plant Nutrition, 0, , 1-8.	0.8	0