

Jun Wasaki

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

1,941

citations

26

h-index

43

g-index

63

ext. papers

2,216

ext. citations

3.5

avg, IF

4.53

L-index

#	Paper	IF	Citations
62	Intercropping to Maximize Root-Root Interactions in Agricultural Plants 2021 , 289-307		
61	Formation of dauciform roots by Japanese native Cyperaceae and their contribution to phosphorus dynamics in soils. <i>Plant and Soil</i> , 2021 , 461, 107-118	4.2	2
60	Recent insights into the metabolic adaptations of phosphorus-deprived plants. <i>Journal of Experimental Botany</i> , 2021 , 72, 199-223	7	13
59	Complementarity of two distinct phosphorus acquisition strategies in maize-white lupine intercropping system under limited phosphorus availability. <i>Journal of Crop Improvement</i> , 2021 , 35, 234-249	1.4	2
58	Leaf manganese concentrations as a tool to assess belowground plant functioning in phosphorus-impooverished environments. <i>Plant and Soil</i> , 2021 , 461, 43-61	4.2	23
57	Multiple analysis of root exudates and microbiome in rice (<i>Oryza sativa</i>) under low P conditions. <i>Archives of Microbiology</i> , 2021 , 203, 5599-5611	3	1
56	AtALMT3 is Involved in Malate Efflux Induced by Phosphorus Deficiency in <i>Arabidopsis thaliana</i> Root Hairs. <i>Plant and Cell Physiology</i> , 2019 , 60, 107-115	4.9	19
55	Effects of White Lupin and Groundnut on Fractionated Rhizosphere Soil P of Different P-Limited Soil Types in Japan. <i>Agronomy</i> , 2019 , 9, 68	3.6	4
54	Organ-specific allocation pattern of acquired phosphorus and dry matter in two rice genotypes with contrasting tolerance to phosphorus deficiency. <i>Soil Science and Plant Nutrition</i> , 2018 , 64, 282-290	1.6	11
53	Molecular mechanisms underpinning phosphorus-use efficiency in rice. <i>Plant, Cell and Environment</i> , 2018 , 41, 1483-1496	8.4	33
52	Ancient rice cultivar extensively replaces phospholipids with non-phosphorus glycolipid under phosphorus deficiency. <i>Physiologia Plantarum</i> , 2018 , 163, 297	4.6	15
51	Identification of genomic regions associated with low phosphorus tolerance in japonica rice (<i>Oryza sativa</i> L.) by QTL-Seq. <i>Soil Science and Plant Nutrition</i> , 2018 , 64, 278-281	1.6	5
50	Preface to special section Frontline in the rhizosphere research involved in phosphorus: for efficient use of unavailable P in soils (Rhizo-P) <i>Soil Science and Plant Nutrition</i> , 2018 , 64, 277-277	1.6	
49	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.). <i>Soil Science and Plant Nutrition</i> , 2018 , 64, 686-696	1.6	15
48	Organic acid excretion from roots: a plant mechanism for enhancing phosphorus acquisition, enhancing aluminum tolerance, and recruiting beneficial rhizobacteria. <i>Soil Science and Plant Nutrition</i> , 2018 , 64, 697-704	1.6	29
47	Landrace of japonica rice, Akamai exhibits enhanced root growth and efficient leaf phosphorus remobilization in response to limited phosphorus availability. <i>Plant and Soil</i> , 2017 , 414, 327-338	4.2	10
46	PHOSPHORUS-MOBILIZATION STRATEGY BASED ON CARBOXYLATE EXUDATION IN LUPINUS (LUPINUS, FABACEAE): A MECHANISM FACILITATING THE GROWTH AND PHOSPHORUS ACQUISITION OF NEIGHBOURING PLANTS UNDER PHOSPHORUS-LIMITED CONDITIONS. <i>Experimental Agriculture</i> , 2017 , 53, 303-319	1.7	9

45	Transgenic approaches for improving phosphorus use efficiency in plants 2017 , 323-338		3
44	Effects of different phosphorus-efficient legumes and soil texture on fractionated rhizosphere soil phosphorus of strongly weathered soils. <i>Biology and Fertility of Soils</i> , 2016 , 52, 367-376	6.1	16
43	Identification and distribution of cellobiose 2-epimerase genes by a PCR-based metagenomic approach. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 4287-95	5.7	8
42	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. <i>Plant and Soil</i> , 2015 , 390, 223-236	4.2	47
41	The mannobiose-forming exo-mannanase involved in a new mannan catabolic pathway in <i>Bacteroides fragilis</i> . <i>Archives of Microbiology</i> , 2014 , 196, 17-23	3	27
40	Structure of novel enzyme in mannan biodegradation process 4-O-ED-mannosyl-D-glucose phosphorylase MGP. <i>Journal of Molecular Biology</i> , 2013 , 425, 4468-78	6.5	26
39	Phytate degradation by fungi and bacteria that inhabit sawdust and coffee residue composts. <i>Microbes and Environments</i> , 2013 , 28, 71-80	2.6	13
38	Effect of exogenous phosphatase and phytase activities on organic phosphate mobilization in soils with different phosphate adsorption capacities. <i>Soil Science and Plant Nutrition</i> , 2012 , 58, 41-51	1.6	14
37	Isolation and characterization of cellulose-decomposing bacteria inhabiting sawdust and coffee residue composts. <i>Microbes and Environments</i> , 2012 , 27, 226-33	2.6	46
36	Molecular Approaches to the Study of Biological Phosphorus Cycling. <i>Soil Biology</i> , 2011 , 93-111	1	3
35	New microbial mannan catabolic pathway that involves a novel mannosylglucose phosphorylase. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 408, 701-6	3.4	74
34	Compost amendment enhances population and composition of phosphate solubilizing bacteria and improves phosphorus availability in granitic regosols. <i>Soil Science and Plant Nutrition</i> , 2011 , 57, 529-540	1.6	6
33	Evaluation of cellulolytic and hemicellulolytic abilities of fungi isolated from coffee residue and sawdust composts. <i>Microbes and Environments</i> , 2011 , 26, 220-7	2.6	19
32	Recent progress in plant nutrition research: cross-talk between nutrients, plant physiology and soil microorganisms. <i>Plant and Cell Physiology</i> , 2010 , 51, 1255-64	4.9	57
31	Influence of arsenic stress on synthesis and localization of low-molecular-weight thiols in <i>Pteris vittata</i> . <i>Environmental Pollution</i> , 2010 , 158, 3663-9	9.3	25
30	Identification of the cellobiose 2-epimerase gene in the genome of <i>Bacteroides fragilis</i> NCTC 9343. <i>Bioscience, Biotechnology and Biochemistry</i> , 2009 , 73, 400-6	2.1	46
29	Element interconnections in <i>Lotus japonicus</i> : A systematic study of the effects of element additions on different natural variants. <i>Soil Science and Plant Nutrition</i> , 2009 , 55, 91-101	1.6	32
28	Overexpression of the LASAP2 gene for secretory acid phosphatase in white lupin improves the phosphorus uptake and growth of tobacco plants. <i>Soil Science and Plant Nutrition</i> , 2009 , 55, 107-113	1.6	45

27	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. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 366, 414-9	3.4	10
26	Effects of epilactose on calcium absorption and serum lipid metabolism in rats. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 10340-5	5.7	36
25	Cloning and sequencing of the gene for cellobiose 2-epimerase from a ruminal strain of Eubacterium cellulosolvens. <i>FEMS Microbiology Letters</i> , 2008 , 287, 34-40	2.9	45
24	Localization of acid phosphatase activities in the roots of white lupin plants grown under phosphorus-deficient conditions. <i>Soil Science and Plant Nutrition</i> , 2008 , 54, 95-102	1.6	28
23	Analysis of bacterial communities on alkaline phosphatase genes in soil supplied with organic matter. <i>Soil Science and Plant Nutrition</i> , 2008 , 54, 62-71	1.6	128
22	Metabolic alterations proposed by proteome in rice roots grown under low P and high Al concentration under low pH. <i>Plant Science</i> , 2007 , 172, 1157-1165	5.3	74
21	Cloning and sequencing of the cellobiose 2-epimerase gene from an obligatory anaerobe, Ruminococcus albus. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 360, 640-5	3.4	42
20	Transcriptomic analysis indicates putative metabolic changes caused by manipulation of phosphorus availability in rice leaves. <i>Journal of Experimental Botany</i> , 2006 , 57, 2049-59	7	103
19	Endogenous hormones and expression of senescence-related genes in different senescent types of maize. <i>Journal of Experimental Botany</i> , 2005 , 56, 1117-28	7	120
18	Plant growth promotion abilities and microscale bacterial dynamics in the rhizosphere of Lupin analysed by phytate utilization ability. <i>Environmental Microbiology</i> , 2005 , 7, 396-404	5.2	102
17	The Function of a Maize-Derived Phosphoenol pyruvate Carboxylase (PEPC) in Phosphorus-Deficient Transgenic Rice. <i>Soil Science and Plant Nutrition</i> , 2005 , 51, 497-506	1.6	17
16	Root exudation, phosphorus acquisition, and microbial diversity in the rhizosphere of white lupine as affected by phosphorus supply and atmospheric carbon dioxide concentration. <i>Journal of Environmental Quality</i> , 2005 , 34, 2157-66	3.4	66
15	Low phosphorus tolerance mechanisms: phosphorus recycling and photosynthate partitioning in the tropical forage grass, Brachiaria hybrid cultivar Mulato compared with rice. <i>Plant and Cell Physiology</i> , 2004 , 45, 460-9	4.9	97
14	Production of lupin acid phosphatase in transgenic rice for use as a phytate-hydrolyzing enzyme in animal feed. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004 , 68, 1611-6	2.1	2
13	Possibility of rhizosphere regulation using acid phosphatase and organic acid for recycling phosphorus in sewage sludge. <i>Soil Science and Plant Nutrition</i> , 2004 , 50, 77-83	1.6	4
12	Secreted acid phosphatase is expressed in cluster roots of lupin in response to phosphorus deficiency. <i>Plant and Soil</i> , 2003 , 248, 129-136	4.2	129
11	Expression of the OsPI1 gene, cloned from rice roots using cDNA microarray, rapidly responds to phosphorus status. <i>New Phytologist</i> , 2003 , 158, 239-248	9.8	75
10	Breeding Wheat for Zinc Efficiency Improvement in Semi-arid Climate-A Review. <i>Tropics</i> , 2003 , 12, 295-312	29	0

9	Secreted acid phosphatase is expressed in cluster roots of lupin in response to phosphorus deficiency 2003 , 129-136		1
8	Cloning and characterization of four phosphate transporter cDNAs in tobacco. <i>Plant Science</i> , 2002 , 163, 837-846	5.3	53
7	Characteristics of phosphoenolpyruvate phosphatase purified from <i>Allium cepa</i> . <i>Plant Science</i> , 2001 , 161, 861-869	5.3	20
6	Structure of a cDNA for an acid phosphatase from phosphate-deficient lupin (<i>Lupinus albus</i> L.) Roots. <i>Soil Science and Plant Nutrition</i> , 1999 , 45, 439-449	1.6	41
5	Secreting portion of acid phosphatase in roots of Lupin (<i>Lupinus albus</i> L.) and a key signal for the secretion from the roots. <i>Soil Science and Plant Nutrition</i> , 1999 , 45, 937-945	1.6	19
4	Properties of secretory acid phosphatase from lupin roots under phosphorus-deficient conditions 1997 , 295-300		4
3	Properties of secretory acid phosphatase from lupin roots under phosphorus-deficient conditions. <i>Soil Science and Plant Nutrition</i> , 1997 , 43, 981-986	1.6	27
2	Possible solubilization of various mineral elements in the rhizosphere of <i>Lupinus albus</i> L.. <i>Soil Science and Plant Nutrition</i> , 1-8	1.6	
1	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.. <i>Soil Science and Plant Nutrition</i> , 1-10	1.6	0