

Signaling Network in Sensing Phosphate Availability in

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Citation Report

#	ARTICLE	IF	CITATIONS
1	A Neural Basis for Expert Object Recognition. Psychological Science, 2001, 12, 43-47.	3.3	429
2	The Role of MicroRNAs in Phosphorus Deficiency Signaling. Plant Physiology, 2011, 156, 1016-1024.	4.8	143
3	Roles of Arbuscular Mycorrhizas in Plant Phosphorus Nutrition: Interactions between Pathways of Phosphorus Uptake in Arbuscular Mycorrhizal Roots Have Important Implications for Understanding and Manipulating Plant Phosphorus Acquisition. Plant Physiology, 2011, 156, 1050-1057.	4.8	862
4	Phosphate import in plants: focus on the PHT1 transporters. Frontiers in Plant Science, 2011, 2, 83.	3.6	427
5	Investigating the Contribution of the Phosphate Transport Pathway to Arsenic Accumulation in Rice. Plant Physiology, 2011, 157, 498-508.	4.8	299
6	Phosphate Deprivation in Maize: Genetics and Genomics. Plant Physiology, 2011, 156, 1067-1077.	4.8	83
7	Vacuolar Ca ²⁺ /H ⁺ Transport Activity Is Required for Systemic Phosphate Homeostasis Involving Shoot-to-Root Signaling in Arabidopsis. Plant Physiology, 2011, 156, 1176-1189.	4.8	72
8	Smart role of plant 14-3-3 proteins in response to phosphate deficiency. Plant Signaling and Behavior, 2012, 7, 1047-1048.	2.4	9
9	Rosette iron deficiency transcript and microRNA profiling reveals links between copper and iron homeostasis in Arabidopsis thaliana. Journal of Experimental Botany, 2012, 63, 5903-5918.	4.8	129
10	Strigolactones Are Involved in Root Response to Low Phosphate Conditions in Arabidopsis. Plant Physiology, 2012, 160, 1329-1341.	4.8	191
11	PHO2-Dependent Degradation of PHO1 Modulates Phosphate Homeostasis in Arabidopsis. Plant Cell, 2012, 24, 2168-2183.	6.6	308
12	Ethylene's Role in Phosphate Starvation Signaling: More than Just a Root Growth Regulator. Plant and Cell Physiology, 2012, 53, 277-286.	3.1	101
13	Recent Advances in Nutrient Sensing and Signaling. Molecular Plant, 2012, 5, 1170-1172.	8.3	11
14	Overexpression of OsPAP10a, A Root-Associated Acid Phosphatase, Increased Extracellular Organic Phosphorus Utilization in Rice. Journal of Integrative Plant Biology, 2012, 54, 631-639.	8.5	88
15	Brassica napus PHR1 Gene Encoding a MYB-Like Protein Functions in Response to Phosphate Starvation. PLoS ONE, 2012, 7, e44005.	2.5	80
16	Overexpression of GbWRKY1 positively regulates the Pi starvation response by alteration of auxin sensitivity in Arabidopsis. Plant Cell Reports, 2012, 31, 2177-2188.	5.6	39
17	And yet it moves: Cell-to-cell and long-distance signaling by plant microRNAs. Plant Science, 2012, 196, 18-30.	3.6	76
18	Changes in expression of soluble inorganic pyrophosphatases of Phaseolus vulgaris under phosphate starvation. Plant Science, 2012, 187, 39-48.	3.6	22

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19	Functional characterization of the rice <i>SPX</i> family reveals a key role of <i>OsSPX1</i> in controlling phosphate homeostasis in leaves. <i>New Phytologist</i> , 2012, 196, 139-148.	7.3	139
20	Root system morphology and primary root anatomy in natural non-metallicolous and metallicolous populations of three <i>Arabidopsis</i> species differing in heavy metal tolerance. <i>Biologia (Poland)</i> , 2012, 67, 505-516.	1.5	21
21	Bioengineering and management for efficient phosphorus utilization in crops and pastures. <i>Current Opinion in Biotechnology</i> , 2012, 23, 866-871.	6.6	87
22	Fresh perspectives on the roles of arbuscular mycorrhizal fungi in plant nutrition and growth. <i>Mycologia</i> , 2012, 104, 1-13.	1.9	350
23	The Role of the P1BS Element Containing Promoter-Driven Genes in Pi Transport and Homeostasis in Plants. <i>Frontiers in Plant Science</i> , 2012, 3, 58.	3.6	32
25	Nature and nurture: the importance of seed phosphorus content. <i>Plant and Soil</i> , 2012, 357, 1-8.	3.7	167
26	Stimulation of phosphorus uptake by ammonium nutrition involves plasma membrane H ⁺ ATPase in rice roots. <i>Plant and Soil</i> , 2012, 357, 205-214.	3.7	56
27	How do nitrogen and phosphorus deficiencies affect strigolactone production and exudation?. <i>Planta</i> , 2012, 235, 1197-1207.	3.2	299
28	The emerging importance of the SPX domain-containing proteins in phosphate homeostasis. <i>New Phytologist</i> , 2012, 193, 842-851.	7.3	269
29	<i>TFT6</i> and <i>TFT7</i> , two different members of tomato 14-3-3 gene family, play distinct roles in plant adaption to low phosphorus stress. <i>Plant, Cell and Environment</i> , 2012, 35, 1393-1406.	5.7	66
30	Functional expression of PHO1 to the Golgi and trans-Golgi network and its role in export of inorganic phosphate. <i>Plant Journal</i> , 2012, 71, 479-491.	5.7	125
31	Phylogeny, structural evolution and functional diversification of the plant PHOSPHATE1 gene family: a focus on <i>Glycine max</i> . <i>BMC Evolutionary Biology</i> , 2013, 13, 103.	3.2	25
32	Adaptation of maize source leaf metabolism to stress related disturbances in carbon, nitrogen and phosphorus balance. <i>BMC Genomics</i> , 2013, 14, 442.	2.8	100
33	Genome-wide co-expression analysis predicts protein kinases as important regulators of phosphate deficiency-induced root hair remodeling in <i>Arabidopsis</i> . <i>BMC Genomics</i> , 2013, 14, 210.	2.8	34
34	PASmiR: a literature-curated database for miRNA molecular regulation in plant response to abiotic stress. <i>BMC Plant Biology</i> , 2013, 13, 33.	3.6	86
35	Phosphorus nutrition of woody plants: many questions – few answers. <i>Plant Biology</i> , 2013, 15, 785-788.	3.8	55
36	Long-Distance Systemic Signaling and Communication in Plants. <i>Signaling and Communication in Plants</i> , 2013, , .	0.7	16
37	Proteomics dissection of plant responses to mineral nutrient deficiency. <i>Proteomics</i> , 2013, 13, 624-636.	2.2	76

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38	Synthesis and Characterization of Cell-Permeable Caged Phosphates that Can Be Photolyzed by Visible Light or 800 nm Two-Photon Photolysis. <i>ChemBioChem</i> , 2013, 14, 2277-2283.	2.6	14
39	Characterization of hydroxyphenol-terminated alkanethiol self-assembled monolayers: Interactions with phosphates by chemical force spectrometry. <i>Journal of Colloid and Interface Science</i> , 2013, 393, 352-360.	9.4	10
40	A Dual Role of Strigolactones in Phosphate Acquisition and Utilization in Plants. <i>International Journal of Molecular Sciences</i> , 2013, 14, 7681-7701.	4.1	117
41	Characterization of phosphorus-regulated miR399 and miR827 and their isomirs in barley under phosphorus-sufficient and phosphorus-deficient conditions. <i>BMC Plant Biology</i> , 2013, 13, 214.	3.6	94
42	Proteomics identifies ubiquitin-proteasome targets and new roles for chromatin-remodeling in the Arabidopsis response to phosphate starvation. <i>Journal of Proteomics</i> , 2013, 94, 1-22.	2.4	28
43	<scp>ALFIN</scp>-LIKE 6 is involved in root hair elongation during phosphate deficiency in Arabidopsis. <i>New Phytologist</i> , 2013, 198, 709-720.	7.3	109
44	Effect of elevated CO ₂ on phosphorus nutrition of phosphate-deficient <i>Arabidopsis thaliana</i> (L.) Heynh under different nitrogen forms. <i>Journal of Experimental Botany</i> , 2013, 64, 355-367.	4.8	50
45	Roles of Ubiquitination in the Control of Phosphate Starvation Responses in Plants^F. <i>Journal of Integrative Plant Biology</i> , 2013, 55, 40-53.	8.5	31
46	A balanced polymorphism in biomass resource allocation controlled by phosphate in grasses screened through arsenate tolerance. <i>Environmental and Experimental Botany</i> , 2013, 96, 43-51.	4.2	3
47	Nitrogen and phosphorus interaction and cytokinin: Responses of the primary root of <i>Arabidopsis thaliana</i> and the <i>pdr1</i> mutant. <i>Plant Science</i> , 2013, 198, 91-97.	3.6	31
48	Higher leaf area and post-silking P uptake conferred by introgressed DNA segments in the backcross maize line 224. <i>Field Crops Research</i> , 2013, 151, 78-84.	5.1	5
49	The Plant Vascular System: Evolution, Development and Functions^F. <i>Journal of Integrative Plant Biology</i> , 2013, 55, 294-388.	8.5	553
50	Strigolactones and the Coordinated Development of Shoot and Root. <i>Signaling and Communication in Plants</i> , 2013, , 189-204.	0.7	15
51	Matching roots to their environment. <i>Annals of Botany</i> , 2013, 112, 207-222.	2.9	247
52	Arabidopsis Copper Transport Protein COPT2 Participates in the Cross Talk between Iron Deficiency Responses and Low-Phosphate Signaling. <i>Plant Physiology</i> , 2013, 162, 180-194.	4.8	113
53	Identification of a Dual-Targeted Protein Belonging to the Mitochondrial Carrier Family That Is Required for Early Leaf Development in Rice. <i>Plant Physiology</i> , 2013, 161, 2036-2048.	4.8	25
54	Genetic approaches to enhancing phosphorus-use efficiency (PUE) in crops: challenges and directions. <i>Crop and Pasture Science</i> , 2013, 64, 179.	1.5	44
55	Spatio-Temporal Transcript Profiling of Rice Roots and Shoots in Response to Phosphate Starvation and Recovery. <i>Plant Cell</i> , 2013, 25, 4285-4304.	6.6	295

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56	Acclimation responses of <i>Arabidopsis thaliana</i> to sustained phosphite treatments. <i>Journal of Experimental Botany</i> , 2013, 64, 1731-1743.	4.8	42
57	Identification of Downstream Components of Ubiquitin-Conjugating Enzyme PHOSPHATE2 by Quantitative Membrane Proteomics in <i>Arabidopsis</i> Roots. <i>Plant Cell</i> , 2013, 25, 4044-4060.	6.6	242
58	Systemic regulation of mineral homeostasis by micro RNAs. <i>Frontiers in Plant Science</i> , 2013, 4, 145.	3.6	51
59	The Role of Strigolactones in Nutrient-Stress Responses in Plants. <i>International Journal of Molecular Sciences</i> , 2013, 14, 9286-9304.	4.1	67
60	NITROGEN LIMITATION ADAPTATION, a Target of MicroRNA827, Mediates Degradation of Plasma Membrane-Localized Phosphate Transporters to Maintain Phosphate Homeostasis in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 4061-4074.	6.6	273
61	Phosphorus nutrition of phosphorus-sensitive Australian native plants: threats to plant communities in a global biodiversity hotspot. , 2013, 1, cot010-cot010.		76
62	A Member of the Heavy Metal P-Type ATPase OsHMA5 Is Involved in Xylem Loading of Copper in Rice. <i>Plant Physiology</i> , 2013, 163, 1353-1362.	4.8	154
63	An RNA-Seq Transcriptome Analysis of Orthophosphate-Deficient White Lupin Reveals Novel Insights into Phosphorus Acclimation in Plants. <i>Plant Physiology</i> , 2013, 161, 705-724.	4.8	184
64	The interplay between P uptake pathways in mycorrhizal peas: a combined physiological and gene-silencing approach. <i>Physiologia Plantarum</i> , 2013, 149, 234-248.	5.2	30
65	A phosphate starvation response regulator Ta-PHR1 is involved in phosphate signalling and increases grain yield in wheat. <i>Annals of Botany</i> , 2013, 111, 1139-1153.	2.9	139
66	Strigolactones activate different hormonal pathways for regulation of root development in response to phosphate growth conditions. <i>Annals of Botany</i> , 2013, 112, 409-415.	2.9	44
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69	The Temporal Transcriptomic Response of <i>Pinus massoniana</i> Seedlings to Phosphorus Deficiency. <i>PLoS ONE</i> , 2014, 9, e105068.	2.5	32
70	The Effects of Fluctuations in the Nutrient Supply on the Expression of Five Members of the AGL17 Clade of MADS-Box Genes in Rice. <i>PLoS ONE</i> , 2014, 9, e105597.	2.5	30
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72	Efficient Mineral Nutrition: Genetic Improvement of Phosphate Uptake and Use Efficiency in Crops. <i>Plant Ecophysiology</i> , 2014, , 93-132.	1.5	3
73	<i>Arabidopsis</i> PHOSPHATE TRANSPORTER1 genes PHT1;8 and PHT1;9 are involved in root-to-shoot translocation of orthophosphate. <i>BMC Plant Biology</i> , 2014, 14, 334.	3.6	108

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75	Strigolactones: Biosynthesis, Synthesis and Functions in Plant Growth and Stress Responses. , 2014, , 265-288.		6
76	SPX4 Negatively Regulates Phosphate Signaling and Homeostasis through Its Interaction with PHR2 in Rice. <i>Plant Cell</i> , 2014, 26, 1586-1597.	6.6	256
77	Identification of Phosphatin, a Drug Alleviating Phosphate Starvation Responses in Arabidopsis. <i>Plant Physiology</i> , 2014, 166, 1479-1491.	4.8	20
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80	Activation of <i>MPK3</i> and <i>MPK6</i> enhances phosphate acquisition in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2014, 203, 1146-1160.	7.3	53
81	RNA-seq transcriptome profiling reveals that <i>Medicago truncatula</i> nodules acclimate N ₂ fixation before emerging P deficiency reaches the nodules. <i>Journal of Experimental Botany</i> , 2014, 65, 6035-6048.	4.8	76
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84	MicroRNA399 expression profiles in Arabidopsis seedlings, callus, and protoplasts in response to phosphate deficiency. <i>Russian Journal of Plant Physiology</i> , 2014, 61, 801-806.	1.1	0
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88	Organ-specific phosphorus allocation patterns and transcript profiles linked to phosphorus efficiency in two contrasting wheat genotypes. <i>Plant, Cell and Environment</i> , 2014, 37, 943-960.	5.7	59
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91	Root Engineering. <i>Soil Biology</i> , 2014, , .	0.8	7
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97	Phospholipases in Plant Signaling. Signaling and Communication in Plants, 2014, , .	0.7	12
98	Regulation of root morphogenesis in arbuscular mycorrhizae: what role do fungal exudates, phosphate, sugars and hormones play in lateral root formation?. Annals of Botany, 2014, 113, 19-33.	2.9	127
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106	Control of phosphate homeostasis through gene regulation in crops. Current Opinion in Plant Biology, 2014, 21, 59-66.	7.1	113
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109	SPX1 is a phosphate-dependent inhibitor of PHOSPHATE STARVATION RESPONSE 1 in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14947-14952.	7.1	372
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111	Molecular mechanisms underlying phosphate sensing, signaling, and adaptation in plants. Journal of Integrative Plant Biology, 2014, 56, 192-220.	8.5	328

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113	SPX1 is an important component in the phosphorus signalling network of common bean regulating root growth and phosphorus homeostasis. Journal of Experimental Botany, 2014, 65, 3299-3310.	4.8	57
114	Oxygen deficit alleviates phosphate overaccumulation toxicity in OsPHR2 overexpression plants. Journal of Plant Research, 2014, 127, 433-440.	2.4	9
115	Strigolactones are involved in phosphate- and nitrate-deficiency-induced root development and auxin transport in rice. Journal of Experimental Botany, 2014, 65, 6735-6746.	4.8	294
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117	Fine characterization of OsPHO2 knockout mutants reveals its key role in Pi utilization in rice. Journal of Plant Physiology, 2014, 171, 340-348.	3.5	37
118	Understanding plant responses to phosphorus starvation for improvement of plant tolerance to phosphorus deficiency by biotechnological approaches. Critical Reviews in Biotechnology, 2014, 34, 16-30.	9.0	88
122	Boron-deficiency-responsive microRNAs and their targets in Citrus sinensis leaves. BMC Plant Biology, 2015, 15, 271.	3.6	34
124	Stress induced gene expression drives transient DNA methylation changes at adjacent repetitive elements. ELife, 2015, 4, .	6.0	285
125	Ethylene and plant responses to phosphate deficiency. Frontiers in Plant Science, 2015, 6, 796.	3.6	86
127	<i>Peanut stunt virus</i>-induced gene silencing in white lupin (<i>Lupinus Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 342 T	1.0	12
128	WRKY42 Modulates Phosphate Homeostasis through Regulating Phosphate Translocation and Acquisition in Arabidopsis Å. Plant Physiology, 2015, 167, 1579-1591.	4.8	153
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130	Shoot organogenesis from roots of seabuckthorn (Hippopha Å« rhamnoides L.): structure, initiation and effects of phosphorus and auxin. Trees - Structure and Function, 2015, 29, 1989-2001.	1.9	3
131	Characterisation of the phytase gene in trifoliolate orange (Poncirus trifoliata (L.) Raf.) seedlings. Scientia Horticulturae, 2015, 194, 222-229.	3.6	3
132	Hormonal interactions during cluster-root development in phosphate-deficient white lupin (Lupinus) Tj ETQq1 1 0.784314 rgBT /Overlo	3.5	23
133	Live Imaging of Inorganic Phosphate in Plants with Cellular and Subcellular Resolution Å. Plant Physiology, 2015, 167, 628-638.	4.8	50
134	Arabidopsis response to low-phosphate conditions includes active changes in actin filaments and PIN2 polarization and is dependent on strigolactone signalling. Journal of Experimental Botany, 2015, 66, 1499-1510.	4.8	42

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135	Integrative Comparison of the Role of the PHOSPHATE RESPONSE1 Subfamily in Phosphate Signaling and Homeostasis in Rice. <i>Plant Physiology</i> , 2015, 168, 1762-1776.	4.8	152
136	Two short sequences in OsNAR2.1 promoter are necessary for fully activating the nitrate induced gene expression in rice roots. <i>Scientific Reports</i> , 2015, 5, 11950.	3.3	8
137	Insights into the Small RNA-Mediated Networks in Response to Abiotic Stress in Plants. , 2015, , 45-91.		6
138	miRNA778 and SUVH6 are involved in phosphate homeostasis in Arabidopsis. <i>Plant Science</i> , 2015, 238, 273-285.	3.6	33
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141	Genetic manipulation of a high-affinity PHR1 target cis-element to improve phosphorous uptake in <i>Oryza sativa</i> L.. <i>Plant Molecular Biology</i> , 2015, 87, 429-440.	3.9	53
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148	Interaction between carbon metabolism and phosphate accumulation is revealed by a mutation of a cellulose synthase-like protein, CSLF6. <i>Journal of Experimental Botany</i> , 2015, 66, 2557-2567.	4.8	16
149	Linking phosphorus availability with photo-oxidative stress in plants. <i>Journal of Experimental Botany</i> , 2015, 66, 2889-2900.	4.8	115
150	OsSPX-MFS3, a vacuolar phosphate efflux transporter, is involved in maintaining Pi homeostasis in rice. <i>Plant Physiology</i> , 2015, 169, pp.01005.2015.	4.8	109
151	Strigolactone signaling in root development and phosphate starvation. <i>Plant Signaling and Behavior</i> , 2015, 10, e1045174.	2.4	32
152	Significance of Long-Distance Transport. <i>Proceedings of the International Plant Sulfur Workshop</i> , 2015, , 21-35.	0.1	1
153	ESCRT-III-Associated Protein ALIX Mediates High-Affinity Phosphate Transporter Trafficking to Maintain Phosphate Homeostasis in Arabidopsis. <i>Plant Cell</i> , 2015, 27, 2560-2581.	6.6	81
154	<i>OsSIZ1</i> , a SUMO E3 Ligase Gene, is Involved in the Regulation of the Responses to Phosphate and Nitrogen in Rice. <i>Plant and Cell Physiology</i> , 2015, 56, 2381-2395.	3.1	59
155	Shoot-derived signals other than auxin are involved in systemic regulation of strigolactone production in roots. <i>Planta</i> , 2015, 241, 687-698.	3.2	36
156	Phosphatidylinositol phosphate 5-kinase genes respond to phosphate deficiency for root hair elongation in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2015, 81, 426-437.	5.7	23
157	A Wheat CCAAT Box-Binding Transcription Factor Increases the Grain Yield of Wheat with Less Fertilizer Input. <i>Plant Physiology</i> , 2015, 167, 411-423.	4.8	162
158	Molecular mechanisms of phosphate and zinc signalling crosstalk in plants: Phosphate and zinc loading into root xylem in Arabidopsis. <i>Environmental and Experimental Botany</i> , 2015, 114, 57-64.	4.2	30

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159	Phosphate transporter OsPht1;8 in rice plays an important role in phosphorus redistribution from source to sink organs and allocation between embryo and endosperm of seeds. <i>Plant Science</i> , 2015, 230, 23-32.	3.6	69
160	The Role of Ethylene in Plant Adaptations for Phosphate Acquisition in Soils – A Review. <i>Frontiers in Plant Science</i> , 2015, 6, 1224.	3.6	32
161	An Inventory of Nutrient-Responsive Genes in Arabidopsis Root Hairs. <i>Frontiers in Plant Science</i> , 2016, 7, 237.	3.6	32
162	Phosphate Uptake and Allocation – A Closer Look at Arabidopsis thaliana L. and Oryza sativa L.. <i>Frontiers in Plant Science</i> , 2016, 7, 1198.	3.6	127
163	Phosphate Deficiency Induces the Jasmonate Pathway and Enhances Resistance to Insect Herbivory. <i>Plant Physiology</i> , 2016, 171, 632-644.	4.8	138
164	Phosphate-dependent root system architecture responses to salt stress. <i>Plant Physiology</i> , 2016, 172, pp.00712.2016.	4.8	70
165	Quantitative Imaging of FRET-Based Biosensors for Cell- and Organelle-Specific Analyses in Plants. <i>Microscopy and Microanalysis</i> , 2016, 22, 300-310.	0.4	11
166	Long-Distance Lipid Signaling and its Role in Plant Development and Stress Response. <i>Sub-Cellular Biochemistry</i> , 2016, 86, 339-361.	2.4	16
167	The regulation of root growth in response to phosphorus deficiency mediated by phytohormones in a Tibetan wild barley accession. <i>Acta Physiologiae Plantarum</i> , 2016, 38, 1.	2.1	16
168	Arabidopsis MYB-Related HHO2 Exerts a Regulatory Influence on a Subset of Root Traits and Genes Governing Phosphate Homeostasis. <i>Plant and Cell Physiology</i> , 2016, 57, 1142-1152.	3.1	38
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