

# Carboxylate release of wheat, canola and 11 grain legumes status

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Spatio-temporal dynamics of bacterial communities associated with two plant species differing in organic acid secretion: A one-year microcosm study on lupin and wheat. <i>Soil Biology and Biochemistry</i> , 2008, 40, 1772-1780.	4.2	54
2	Mineral Nutrition. , 2008, , 255-320.		27
3	Comparing the phosphorus requirements of wheat, lupin, and canola. <i>Australian Journal of Agricultural Research</i> , 2008, 59, 983.	1.5	28
4	Acquisition of phosphorus and nitrogen in the rhizosphere and plant growth promotion by microorganisms. <i>Plant and Soil</i> , 2009, 321, 305-339.	1.8	1,391
5	Plant mechanisms to optimise access to soil phosphorus. <i>Crop and Pasture Science</i> , 2009, 60, 124.	0.7	367
6	Phosphorus uptake and rhizosphere properties of intercropped and monocropped maize, faba bean, and white lupin in acidic soil. <i>Biology and Fertility of Soils</i> , 2010, 46, 79-91.	2.3	121
7	Wheat, canola and grain legume access to soil phosphorus fractions differs in soils with contrasting phosphorus dynamics. <i>Plant and Soil</i> , 2010, 326, 159-170.	1.8	100
8	Phosphorus availability for three crop species as a function of soil type and fertilizer history. <i>Plant and Soil</i> , 2010, 337, 497-510.	1.8	20
9	Multiple adaptive responses of Australian native perennial legumes with pasture potential to grow in phosphorus- and moisture-limited environments. <i>Annals of Botany</i> , 2010, 105, 755-767.	1.4	76
10	Effects of phosphorus supply on growth, phosphate concentration and cluster-root formation in three <i>Lupinus</i> species. <i>Annals of Botany</i> , 2010, 105, 365-374.	1.4	51
11	Phosphorus-efficient faba bean ( <i>Vicia faba</i> L.) genotypes enhance subsequent wheat crop growth in an acid and an alkaline soil. <i>Crop and Pasture Science</i> , 2010, 61, 1009.	0.7	20
12	ROOT EXUDATION AND ZINC UPTAKE BY BARLEY GENOTYPES DIFFERING IN ZN EFFICIENCY. <i>Journal of Plant Nutrition</i> , 2011, 34, 1120-1132.	0.9	26
13	Above- and below-ground interactions of grass and pasture legume species when grown together under drought and low phosphorus availability. <i>Plant and Soil</i> , 2011, 348, 281-297.	1.8	34
14	Plant and microbial strategies to improve the phosphorus efficiency of agriculture. <i>Plant and Soil</i> , 2011, 349, 121-156.	1.8	678
15	Phosphorus Nutrition of Proteaceae in Severely Phosphorus-Imperished Soils: Are There Lessons To Be Learned for Future Crops?. <i>Plant Physiology</i> , 2011, 156, 1058-1066.	2.3	176
16	P for Two, Sharing a Scarce Resource: Soil Phosphorus Acquisition in the Rhizosphere of Intercropped Species. <i>Plant Physiology</i> , 2011, 156, 1078-1086.	2.3	323
17	Pathways to Agroecological Intensification of Soil Fertility Management by Smallholder Farmers in the Andean Highlands. <i>Advances in Agronomy</i> , 2012, 116, 125-184.	2.4	47
18	Phosphorus-mobilization ecosystem engineering: the roles of cluster roots and carboxylate exudation in young P-limited ecosystems. <i>Annals of Botany</i> , 2012, 110, 329-348.	1.4	149

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19	ROOT EXUDATES OF WETLAND PLANTS INFLUENCED BY NUTRIENT STATUS AND TYPES OF PLANT CULTIVATION. <i>International Journal of Phytoremediation</i> , 2012, 14, 543-553.	1.7	38
20	Grain legume pre-crops and their residues affect the growth, P uptake and size of P pools in the rhizosphere of the following wheat. <i>Biology and Fertility of Soils</i> , 2012, 48, 775-785.	2.3	22
21	Green and Brown Manures in Dryland Wheat Production Systems in Mediterranean-Type Environments. <i>Advances in Agronomy</i> , 2012, , 275-313.	2.4	12
22	Transcriptional response of <i>Pseudomonas aeruginosa</i> to a phosphate-deficient <i>Lolium perenne</i> rhizosphere. <i>Plant and Soil</i> , 2012, 359, 25-44.	1.8	11
23	Carbon trading for phosphorus gain: the balance between rhizosphere carboxylates and arbuscular mycorrhizal symbiosis in plant phosphorus acquisition. <i>Plant, Cell and Environment</i> , 2012, 35, 2170-2180.	2.8	148
24	Growth, P uptake in grain legumes and changes in rhizosphere soil P pools. <i>Biology and Fertility of Soils</i> , 2012, 48, 151-159.	2.3	51
25	Effects of nitrogen deposition on growth and phosphate efficiency of <i>Schima superba</i> of different provenances grown in phosphorus-barren soil. <i>Plant and Soil</i> , 2013, 370, 435-445.	1.8	27
26	Effects of nitrogen fertilization and root interaction on the agronomic traits of intercropped maize, and the quantity of microorganisms and activity of enzymes in the rhizosphere. <i>Plant and Soil</i> , 2013, 368, 407-417.	1.8	35
27	Cluster-root formation and carboxylate release in three <i>Lupinus</i> species as dependent on phosphorus supply, internal phosphorus concentration and relative growth rate. <i>Annals of Botany</i> , 2013, 112, 1449-1459.	1.4	18
28	Crop Mixtures and the Mechanisms of Overyielding. , 2013, , 382-395.		69
29	Rhizosphere properties in monocropping and intercropping systems between faba bean ( <i>Vicia faba</i> L.) and maize ( <i>Zea mays</i> L.) grown in a calcareous soil. <i>Crop and Pasture Science</i> , 2013, 64, 976.	0.7	44
30	Genetic approaches to enhancing phosphorus-use efficiency (PUE) in crops: challenges and directions. <i>Crop and Pasture Science</i> , 2013, 64, 179.	0.7	44
31	<i>Viminaria juncea</i> does not vary its shoot phosphorus concentration and only marginally decreases its mycorrhizal colonization and cluster-root dry weight under a wide range of phosphorus supplies. <i>Annals of Botany</i> , 2013, 111, 801-809.	1.4	13
32	Responses of root architecture development to low phosphorus availability: a review. <i>Annals of Botany</i> , 2013, 112, 391-408.	1.4	433
33	How a phosphorus acquisition strategy based on carboxylate exudation powers the success and agronomic potential of lupines ( <i>Lupinus</i> , Fabaceae). <i>American Journal of Botany</i> , 2013, 100, 263-288.	0.8	216
34	Phosphorus starvation boosts carboxylate secretion in P-deficient genotypes of <i>Lupinus angustifolius</i> with contrasting root structure. <i>Crop and Pasture Science</i> , 2013, 64, 588.	0.7	43
35	Soil phosphorus availability and soybean response to phosphorus starter fertilizer. <i>Revista Brasileira De Ciencia Do Solo</i> , 2014, 38, 1487-1495.	0.5	5
36	Grain yield and phosphorus use efficiency of wheat and pea in a high yielding environment. <i>Journal of Soil Science and Plant Nutrition</i> , 2014, , 0-0.	1.7	15

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38	Phosphorus Deficiency in Plants: Responses, Adaptive Mechanisms, and Signaling. , 2014, , 133-148.		16
39	Can citrate efflux from roots improve phosphorus uptake by plants? Testing the hypothesis with near-isogenic lines of wheat. <i>Physiologia Plantarum</i> , 2014, 151, 230-242.	2.6	71
40	Plant diversity andoveryielding: insights from belowground facilitation of intercropping in agriculture. <i>New Phytologist</i> , 2014, 203, 63-69.	3.5	449
41	The role of root exuded low molecular weight organic anions in facilitating petroleum hydrocarbon degradation: Current knowledge and future directions. <i>Science of the Total Environment</i> , 2014, 472, 642-653.	3.9	211
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43	Convergence of a specialized root trait in plants from nutrient-impooverished soils: phosphorus-acquisition strategy in a nonmycorrhizal cactus. <i>Oecologia</i> , 2014, 176, 345-355.	0.9	50
44	Root traits and microbial community interactions in relation to phosphorus availability and acquisition, with particular reference to Brassica. <i>Frontiers in Plant Science</i> , 2014, 5, 27.	1.7	111
46	Pre-crop effects on the nutrient composition and utilization efficiency of faba bean ( <i>Vicia faba</i> L.) and narrow-leafed lupin ( <i>Lupinus angustifolius</i> L.). <i>Nutrient Cycling in Agroecosystems</i> , 2015, 103, 311-327.	1.1	10
48	Break crops and rotations for wheat. <i>Crop and Pasture Science</i> , 2015, 66, 523.	0.7	277
49	Balanced allocation of organic acids and biomass for phosphorus and nitrogen demand in the fynbos legume <i>Podalyria calypttrata</i> . <i>Journal of Plant Physiology</i> , 2015, 174, 16-25.	1.6	12
50	Comparison of the response to phosphorus deficiency in two lupin species, <i>Lupinus albus</i> and <i>Lupinus angustifolius</i> , with contrasting root morphology. <i>Plant, Cell and Environment</i> , 2015, 38, 399-410.	2.8	27
51	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.	1.8	67
52	Increasing nitrogen supply stimulates phosphorus acquisition mechanisms in the fynbos species <i>Aspalathus linearis</i> . <i>Functional Plant Biology</i> , 2015, 42, 52.	1.1	35
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59	Interactions among clusterâ€”root investment, leaf phosphorus concentration, and relative growth rate in two <i>Lupinus</i> species. <i>American Journal of Botany</i> , 2015, 102, 1529-1537.	0.8	5
60	Leaf manganese accumulation and phosphorus-acquisition efficiency. <i>Trends in Plant Science</i> , 2015, 20, 83-90.	4.3	251
61	The importance of a sterile rhizosphere when phenotyping for root exudation. <i>Plant and Soil</i> , 2015, 387, 131-142.	1.8	43
62	Citrate and malonate increase microbial activity and alter microbial community composition in uncontaminated and diesel-contaminated soil microcosms. <i>Soil</i> , 2016, 2, 487-498.	2.2	23
63	Major Crop Species Show Differential Balance between Root Morphological and Physiological Responses to Variable Phosphorus Supply. <i>Frontiers in Plant Science</i> , 2016, 7, 1939.	1.7	143
64	The secretion of the bacterial phytase PHY â€”US 417 by <i>Arabidopsis</i> roots reveals its potential for increasing phosphate acquisition and biomass production during coâ€”growth. <i>Plant Biotechnology Journal</i> , 2016, 14, 1914-1924.	4.1	31
65	Removal of phosphorus in residues of legume or cereal plants determines growth of subsequently planted wheat in a high phosphorus fixing soil. <i>Biology and Fertility of Soils</i> , 2016, 52, 1085-1092.	2.3	7
66	A novel<i>Brassica</i>â€”rhizotron system to unravel the dynamic changes in root system architecture of oilseed rape under phosphorus deficiency. <i>Annals of Botany</i> , 2016, 118, 173-184.	1.4	30
67	Hogâ€”Manureâ€”Recovered Struvite: Effects on Canola and Wheat Biomass Yield and Phosphorus Use Efficiencies. <i>Soil Science Society of America Journal</i> , 2016, 80, 135-146.	1.2	21
68	Rhizosphere carboxylates and morphological root traits in pasture legumes and grasses. <i>Plant and Soil</i> , 2016, 402, 77-89.	1.8	38
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70	Crop acquisition of phosphorus, iron and zinc from soil in cereal/legume intercropping systems: a critical review. <i>Annals of Botany</i> , 2016, 117, 363-377.	1.4	161
71	Closely related allopatric<i>Podalyria</i> species from the Core Cape Subregion differ in their mechanisms for acquisition of phosphorus, growth and ecological niche. <i>Journal of Plant Ecology</i> , 2016, 9, 451-463.	1.2	3
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74	Arsenic-hyperaccumulator <i>Pteris vittata</i> efficiently solubilized phosphate rock to sustain plant growth and As uptake. <i>Journal of Hazardous Materials</i> , 2017, 330, 68-75.	6.5	59
75	White Lupin: A Model System for Understanding Plant Adaptation to Low Phosphorus Availability. , 2017, , 243-280.		5

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77	Legume Nitrogen Fixation in Soils with Low Phosphorus Availability. , 2017, , .		16
78	Regulation of dauciform root formation and root phosphatase activities of sedges ( <i>Carex</i> ) by nitrogen and phosphorus. <i>Plant and Soil</i> , 2017, 415, 57-72.	1.8	17
79	Wheat and white lupin differ in rhizosphere priming of soil organic carbon under elevated CO <sub>2</sub> . <i>Plant and Soil</i> , 2017, 421, 43-55.	1.8	17
80	Peppermint trees shift their phosphorus-acquisition strategy along a strong gradient of plant-available phosphorus by increasing their transpiration at very low phosphorus availability. <i>Oecologia</i> , 2017, 185, 387-400.	0.9	36
81	Effects of external supplied sucrose on the uptake and metabolism of glycine by pakchoi ( <i>Brassica</i> ) Tj ETQq1 1 0.784314 rgBT <sub>0</sub> /Overlock	1.0	
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83	Effects of glucose on the uptake and metabolism of glycine in pakchoi ( <i>Brassica chinensis</i> L.) exposed to various nitrogen sources. <i>BMC Plant Biology</i> , 2017, 17, 58.	1.6	17
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92	The responses of root morphology and phosphorus-mobilizing exudations in wheat to increasing shoot phosphorus concentration. <i>AoB PLANTS</i> , 2018, 10, ply054.	1.2	40
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97	Effect of phosphate solubilising bacteria ( <i>Enterobacter cloacae</i> ) on phosphorus uptake efficiency in sugarcane ( <i>Saccharum officinarum</i> L.). <i>Soil Research</i> , 2019, 57, 333.	0.6	12
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106	The impact of different morphological and biochemical root traits on phosphorus acquisition and seed yield of <i>Brassica napus</i> . <i>Field Crops Research</i> , 2020, 258, 107960.	2.3	22
107	Elevated CO <sub>2</sub> promotes the acquisition of phosphorus in crop species differing in physiological phosphorus-acquiring mechanisms. <i>Plant and Soil</i> , 2020, 455, 397-408.	1.8	10
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109	Nitrogen and Potassium Fertilisation Influences Growth, Rhizosphere Carboxylate Exudation and Mycorrhizal Colonisation in Temperate Perennial Pasture Grasses. <i>Agronomy</i> , 2020, 10, 1878.	1.3	5
110	Accessing Legacy Phosphorus in Soils. <i>Soil Systems</i> , 2020, 4, 74.	1.0	35
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115	Alteration in root morphological and physiological traits of two maize cultivars in response to phosphorus deficiency. <i>Rhizosphere</i> , 2020, 14, 100201.	1.4	23
116	Tradeoffs among phosphorus-acquisition root traits of crop species for agroecological intensification. <i>Plant and Soil</i> , 2021, 461, 137-150.	1.8	32
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121	Effects of different long-term cropping systems on phoD-harboring bacterial community in red soils. <i>Journal of Soils and Sediments</i> , 2021, 21, 376-387.	1.5	12
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143	Finger millet ( <i>Eleusine coracana</i> L.) grain yield and yield components as influenced by phosphorus application and variety in Western Kenya. <i>Tropical Plant Research</i> , 2016, 3, 673-680.	0.4	10
144	The wheat secreted root proteome: Implications for phosphorus mobilisation and biotic interactions. <i>Journal of Proteomics</i> , 2022, 252, 104450.	1.2	8
145	A conceptual framework and an empirical test of complementarity and facilitation with respect to phosphorus uptake by plant species mixtures. <i>Pedosphere</i> , 2022, 32, 317-329.	2.1	5
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