

Picking battles wisely: plant behaviour under competition

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Plant neurobiology. <i>Plant Signaling and Behavior</i> , 2009, 4, 475-476.	1.2	25
2	What is plant behaviour?*. <i>Plant, Cell and Environment</i> , 2009, 32, 606-616.	2.8	128
3	Fight or flight: plastic behavior under self-generated heterogeneity. <i>Evolutionary Ecology</i> , 2010, 24, 1521-1536.	0.5	19
4	The ecohydrology of roots in rocks. <i>Ecohydrology</i> , 2010, 3, 238-245.	1.1	142
5	DROUGHT STRESS: Soil Water Availability Alters the Inter- and Intra-Cultivar Competition of Three Spring Wheat Cultivars Bred in Different Eras. <i>Journal of Agronomy and Crop Science</i> , 2010, 196, 323-335.	1.7	32
6	On how to disentangle the contribution of different organs and processes to the growth of whole plants. <i>Journal of Experimental Botany</i> , 2010, 61, 626-628.	2.4	7
7	Physiological regulation and functional significance of shade avoidance responses to neighbors. <i>Plant Signaling and Behavior</i> , 2010, 5, 655-662.	1.2	78
8	Effects of temporal heterogeneity of water supply on the growth of <i>Perilla frutescens</i> depend on plant density. <i>Annals of Botany</i> , 2010, 106, 173-181.	1.4	26
9	Anticipating future conditions via trajectory sensitivity. <i>Plant Signaling and Behavior</i> , 2010, 5, 1501-1503.	1.2	15
10	Biogenic volatile organic compounds and plant competition. <i>Trends in Plant Science</i> , 2010, 15, 126-132.	4.3	159
11	Swarm intelligence in plant roots. <i>Trends in Ecology and Evolution</i> , 2010, 25, 682-683.	4.2	51
12	Plant Communication from an Ecological Perspective. <i>Signaling and Communication in Plants</i> , 2010, , .	0.5	23
13	The Behavioral Ecology of Nutrient Foraging by Plants. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2011, 42, 289-311.	3.8	185
14	It's All Who You Know: The Evolution Of Socially Cued Anticipatory Plasticity As A Mating Strategy. <i>Quarterly Review of Biology</i> , 2011, 86, 181-197.	0.0	118
15	Rumor Has It: Relay Communication of Stress Cues in Plants. <i>PLoS ONE</i> , 2011, 6, e23625.	1.1	58
16	Understanding plant rooting patterns in semi-arid systems: an integrated model analysis of climate, soil type and plant biomass. <i>Global Ecology and Biogeography</i> , 2011, 20, 331-342.	2.7	49
17	Cryptochrome ϵ 1 and phytochrome ϵ b control shade-avoidance responses in <i>Arabidopsis</i> via partially independent hormonal cascades. <i>Plant Journal</i> , 2011, 67, 195-207.	2.8	223
18	Chemical interaction between undamaged plants " Effects on herbivores and natural enemies. <i>Phytochemistry</i> , 2011, 72, 1683-1689.	1.4	48

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19	Plasticity in apical dominance and damage tolerance under variable resource availability in <i>Medicago truncatula</i> . <i>Plant Ecology</i> , 2011, 212, 1537-1548.	0.7	10
20	The effect of steepness of temporal resource gradients on spatial root allocation. <i>Plant Signaling and Behavior</i> , 2011, 6, 1356-1360.	1.2	7
21	Evidence for competition and cooperation among climbing plants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 1989-1996.	1.2	66
22	Architectural plasticity in a Mediterranean winter annual. <i>Plant Signaling and Behavior</i> , 2012, 7, 492-501.	1.2	3
23	Fitness consequences of plants growing with siblings: reconciling kin selection, niche partitioning and competitive ability. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 209-218.	1.2	109
24	Measuring the diurnal pattern of leaf hyponasty and growth in <i>Arabidopsis</i> - a novel phenotyping approach using laser scanning. <i>Functional Plant Biology</i> , 2012, 39, 860.	1.1	73
25	Species traits and plant performance: functional trade-offs in a large set of species in a botanical garden. <i>Journal of Ecology</i> , 2012, 100, 1522-1533.	1.9	50
26	Plant responsiveness to root-to-root communication of stress cues. <i>Annals of Botany</i> , 2012, 110, 271-280.	1.4	58
27	Morphological response to competition for light in the clonal <i>Trifolium repens</i> (Fabaceae). <i>American Journal of Botany</i> , 2012, 99, 646-654.	0.8	38
28	Distribution of white spruce lateral fine roots as affected by the presence of trembling aspen: root mapping using simple sequence repeat DNA profiling. <i>Canadian Journal of Forest Research</i> , 2012, 42, 1566-1576.	0.8	7
29	Detect thy neighbor: Identity recognition at the root level in plants. <i>Plant Science</i> , 2012, 195, 157-167.	1.7	134
30	Plasticity as a plastic response: how submergence-induced leaf elongation in <i>Rumex palustris</i> depends on light and nutrient availability in its early life stage. <i>New Phytologist</i> , 2012, 194, 572-582.	3.5	50
31	Transcriptome analysis of intraspecific competition in <i>Arabidopsis thaliana</i> reveals organ-specific signatures related to nutrient acquisition and general stress response pathways. <i>BMC Plant Biology</i> , 2012, 12, 227.	1.6	33
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34	At the Roots of Plant Neurobiology. , 2012, , 3-43.		7
35	Interspecific competition induces asymmetrical rooting profile adjustments in shrub-encroached open oak woodlands. <i>Trees - Structure and Function</i> , 2012, 26, 997-1006.	0.9	43
36	Modeling competition between plants using an Individual Based Model: Methods and effects on the growth of two species with contrasted growth forms. <i>Ecological Modelling</i> , 2012, 234, 38-50.	1.2	19

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37	From virtual plants to real communities: A review of modelling clonal growth. <i>Ecological Modelling</i> , 2012, 234, 3-19.	1.2	35
38	Simulation and analysis of an individual-based model for graph-structured plant dynamics. <i>Ecological Modelling</i> , 2012, 234, 93-105.	1.2	10
39	Prioritized contingencies: context-dependent regenerative effects of grazer saliva. <i>Plant Ecology</i> , 2012, 213, 167-174.	0.7	3
40	Plants Suppress Their Emission of Volatiles When Growing with Conspecifics. <i>Journal of Chemical Ecology</i> , 2013, 39, 537-545.	0.9	42
41	Progress in Botany. <i>Progress in Botany Fortschritte Der Botanik</i> , 2013, , .	0.1	0
42	No time for candy: passionfruit (<i>Passiflora edulis</i>) plants down-regulate damage-induced extra floral nectar production in response to light signals of competition. <i>Oecologia</i> , 2013, 173, 213-221.	0.9	50
43	Increased root oxygen uptake in pea plants responding to non-self neighbors. <i>Planta</i> , 2013, 238, 577-586.	1.6	34
44	Interactive effects of phosphorus deficiency and exogenous auxin on root morphological and physiological traits in white lupin (<i>Lupinus albus</i> L.). <i>Science China Life Sciences</i> , 2013, 56, 313-323.	2.3	16
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53	Inducible competitors and adaptive diversification. <i>Environmental Epigenetics</i> , 2013, 59, 537-552.	0.9	12
54	Whole-Plant Physiology: Synergistic Emergence Rather Than Modularity. <i>Progress in Botany Fortschritte Der Botanik</i> , 2013, , 165-190.	0.1	22

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55	Aphid performance and population development on their host plants is affected by weed-crop interactions. <i>Journal of Applied Ecology</i> , 2013, 50, 1281-1288.	1.9	17
56	Planting density and yield of cassava roots. <i>Revista Ciencia Agronomica</i> , 2013, 44, 317-324.	0.1	11
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59	The Dynamic Process of Interspecific Interactions of Competitive Nitrogen Capture between Intercropped Wheat (<i>Triticum aestivum</i> L.) and Faba Bean (<i>Vicia faba</i> L.). <i>PLoS ONE</i> , 2014, 9, e115804.	1.1	23
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62	Structural blueprint and ontogeny determine the adaptive value of the plastic response to competition in clonal plants: a modelling approach. <i>Evolutionary Ecology</i> , 2014, 28, 573-590.	0.5	3
63	Phylogenetic signal in growth and reproductive traits and in their plasticity: the <i>Descurainia</i> radiation in the Canary Islands. <i>Botanical Journal of the Linnean Society</i> , 2014, 174, 384-398.	0.8	6
64	Fine-tuned ability to predict future competitive environment in <i>artemisiifolia</i> seeds. <i>Weed Research</i> , 2014, 54, 58-69.	0.8	16
65	Informed dispersal in plants: <i>Heterosperma pinnatum</i> (Asteraceae) adjusts its dispersal mode to escape from competition and water stress. <i>Oikos</i> , 2014, 123, 225-231.	1.2	39
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72	Plant cooperation. <i>AoB PLANTS</i> , 2015, 7, plv113.	1.2	43

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74	Inter-plant communication through mycorrhizal networks mediates complex adaptive behaviour in plant communities. <i>AoB PLANTS</i> , 2015, 7, plv050.	1.2	165
75	In a green frame of mind: perspectives on the behavioural ecology and cognitive nature of plants. <i>AoB PLANTS</i> , 2015, 7, .	1.2	59
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79	Relatedness of Neighboring Plants Alters the Expression of Indirect Defense Traits in an Extrafloral Nectary-Bearing Plant. <i>Evolutionary Biology</i> , 2015, 42, 12-19.	0.5	25
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85	Progress in Botany. <i>Progress in Botany Fortschritte Der Botanik</i> , 2015, , .	0.1	7
86	Glacier Forelands: Lessons of Plant Population and Community Development. <i>Progress in Botany Fortschritte Der Botanik</i> , 2016, , 259-284.	0.1	12
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96	Effect of root contact on pollen competitive ability in a hermaphroditic winter-annual herb. <i>Evolutionary Ecology</i> , 2016, 30, 739-754.	0.5	5
97	The philosophy of plant neurobiology: a manifesto. <i>Synthese</i> , 2016, 193, 1323-1343.	0.6	69
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101	OH- and O ₃ -initiated atmospheric degradation of camphene: temperature dependent rate coefficients, product yields and mechanisms. <i>RSC Advances</i> , 2017, 7, 2733-2744.	1.7	20
102	Plant interactions as biotic drivers of plasticity in leaf litter traits and decomposability of <i>Quercus petraea</i> . <i>Ecological Monographs</i> , 2017, 87, 321-340.	2.4	20
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108	Root-mediated sex recognition in a dioecious tree. <i>Scientific Reports</i> , 2017, 7, 801.	1.6	15
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110	Experimental evidence for benefit of self discrimination in roots of a clonal plant. <i>AoB PLANTS</i> , 2017, 9, .	1.2	17
111	Decision-making in plants under competition. <i>Nature Communications</i> , 2017, 8, 2235.	5.8	76
112	Image-Based Analysis to Dissect Vertical Distribution and Horizontal Asymmetry of Conspecific Root System Interactions in Response to Planting Densities, Nutrients and Root Exudates in <i>Arabidopsis thaliana</i> . <i>Plants</i> , 2017, 6, 46.	1.6	3
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114	Differentiation in native as well as introduced ranges: germination reflects mean and variance in cover of surrounding vegetation. <i>AoB PLANTS</i> , 2018, 10, ply009.	1.2	2
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118	Mycorrhizal Networks Facilitate Tree Communication, Learning, and Memory. <i>Signaling and Communication in Plants</i> , 2018, , 191-213.	0.5	72
119	Plant Cognition and Behavior: From Environmental Awareness to Synaptic Circuits Navigating Root Apices. <i>Signaling and Communication in Plants</i> , 2018, , 51-77.	0.5	7
120	Light energy partitioning, photosynthetic efficiency and biomass allocation in invasive <i>Prunus serotina</i> and native <i>Quercus petraea</i> in relation to light environment, competition and allelopathy. <i>Journal of Plant Research</i> , 2018, 131, 505-523.	1.2	10
121	Environmental drivers and phylogenetic constraints of growth phenologies across a large set of herbaceous species. <i>Journal of Ecology</i> , 2018, 106, 1621-1633.	1.9	16
122	OH-initiated mechanistic pathways and kinetics of camphene and fate of product radical: a DFT approach. <i>Environmental Science and Pollution Research</i> , 2018, 25, 2147-2156.	2.7	9
123	Aboveground mechanical stimuli affect belowground plant-plant communication. <i>PLoS ONE</i> , 2018, 13, e0195646.	1.1	30
124	Weed Control Through Crop Plant Manipulations. , 2018, , 73-96.		11
125	Specific spatio-temporal dynamics of absorptive fine roots in response to neighbor species identity in a mixed beech-spruce forest. <i>Tree Physiology</i> , 2019, 39, 1867-1879.	1.4	14
126	Increased planting density of Chinese milk vetch (<i>Astragalus sinicus</i>) weakens phosphorus uptake advantage by rapeseed (<i>Brassica napus</i>) in a mixed cropping system. <i>AoB PLANTS</i> , 2019, 11, plz033.	1.2	9
127	Competitive responses based on kin-discrimination underlie variations in leaf functional traits in Japanese beech (<i>Fagus crenata</i>) seedlings. <i>Evolutionary Ecology</i> , 2019, 33, 521-531.	0.5	14

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129	The shape is more important than we ever thought: Plant to plant interactions in a high mountain community. <i>Methods in Ecology and Evolution</i> , 2019, 10, 1584-1593.	2.2	5
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132	Effects of competition and phosphorus fertilization on leaf and root traits of late-successional conifers <i>Abies fabri</i> and <i>Picea brachytyla</i> . <i>Environmental and Experimental Botany</i> , 2019, 162, 14-24.	2.0	17
133	Context-dependent induction of allelopathy in plants under competition. <i>Oikos</i> , 2019, 128, 1492-1502.	1.2	15
134	Does Soil Nutrient Heterogeneity Improve the Growth Performance and Intraspecific Competition of the Invasive Plant <i>Myriophyllum aquaticum</i> ?. <i>Frontiers in Plant Science</i> , 2019, 10, 723.	1.7	18
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136	What plant roots know?. <i>Seminars in Cell and Developmental Biology</i> , 2019, 92, 126-133.	2.3	52
137	Can we condition native plants to increase drought tolerance and improve restoration success?. <i>Ecological Applications</i> , 2019, 29, e01863.	1.8	24
138	Genotype-aggregated planting improves yield in Jerusalem artichoke (<i>Helianthus tuberosus</i>) due to self/non-self discrimination. <i>Evolutionary Applications</i> , 2019, 12, 508-518.	1.5	10
139	Seasonal patterns of water uptake in <i>Populus tremuloides</i> and <i>Picea glauca</i> on a boreal reclamation site is species specific and modulated by capping soil depth and slope position. <i>Plant and Soil</i> , 2019, 439, 487-504.	1.8	4
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142	Geometric morphology and soil properties of shallow karst fissures in an area of karst rocky desertification in SW China. <i>Catena</i> , 2019, 174, 48-58.	2.2	33
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144	New insights from multidimensional trait space responses to competition in two clonal plant species. <i>Functional Ecology</i> , 2019, 33, 297-307.	1.7	26
145	Plants are intelligent, here's how. <i>Annals of Botany</i> , 2020, 125, 11-28.	1.4	68

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146	Resource availability affects kin selection in two cultivars of <i>Pisum sativum</i> . <i>Plant Growth Regulation</i> , 2020, 90, 321-329.	1.8	14
147	Resource competition and allelopathy in two peat mosses: implication for niche differentiation. <i>Plant and Soil</i> , 2020, 446, 229-242.	1.8	14
148	Utilization of <i>Leptolyngbya boryana</i> mat for modulating nutrient uptake and its translocation in rice (<i>Oryza sativa</i>). <i>Bioresource Technology Reports</i> , 2020, 12, 100575.	1.5	2
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150	Constraints on selfish behavior in plants. <i>Science</i> , 2020, 370, 1167-1168.	6.0	3
151	Along with intraspecific functional trait variation, individual performance is key to resolving community assembly processes. <i>Functional Ecology</i> , 2020, 34, 2362-2374.	1.7	8
152	Cognition in some surprising places. <i>Biochemical and Biophysical Research Communications</i> , 2021, 564, 150-157.	1.0	24
153	Outcome of interspecific competition depends on genotype of conspecific neighbours. <i>Oecologia</i> , 2020, 193, 415-423.	0.9	10
154	The level of relatedness affects self/nonself discrimination in <i>Eucalyptus urophylla</i> seedlings. <i>Canadian Journal of Forest Research</i> , 2020, 50, 500-509.	0.8	3
155	Clonality as a key but overlooked driver of biotic interactions in plants. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2020, 43, 125510.	1.1	31
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157	Light from below matters: Quantifying the consequences of responses to far-red light reflected upwards for plant performance in heterogeneous canopies. <i>Plant, Cell and Environment</i> , 2021, 44, 102-113.	2.8	8
158	Friends, neighbours and enemies: an overview of the communal and social biology of plants. <i>Plant, Cell and Environment</i> , 2021, 44, 997-1013.	2.8	46
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