

# David Robinson

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

5,618  
citations

109264

35  
h-index

114418

63  
g-index

67  
all docs

67  
docs citations

67  
times ranked

6248  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Directly quantifying multiple interacting influences on plant competition. <i>Plant, Cell and Environment</i> , 2021, 44, 1268-1277.   | 2.8 | 12        |
| 2  | Clothing the Emperor: Dynamic Rootâ€“Shoot Allocation Trajectories in Relation to Whole-Plant Growth Rate and in Response to Temperature. <i>Plants</i> , 2019, 8, 212.                                    | 1.6 | 8         |
| 3  | Allometry of fine roots in forest ecosystems. <i>Ecology Letters</i> , 2019, 22, 322-331.  | 3.0 | 37        |
| 4  | Demographic quantification of carbon and nitrogen dynamics associated with root turnover in white clover. <i>Plant, Cell and Environment</i> , 2018, 41, 2045-2056.  | 2.8 | 1         |
| 5  | Constraints on Nutrient Dynamics in Terrestrial Vegetation. , 2016, , 254-291.   |     | 3         |
| 6  | Tree speciesâ€™ influences on soil carbon dynamics revealed with natural abundance <sup>13</sup> C techniques. <i>Plant and Soil</i> , 2016, 400, 285-296.   | 1.8 | 9         |
| 7  | Accelerated soil carbon turnover under tree plantations limits soil carbon storage. <i>Scientific Reports</i> , 2016, 6, 19693.  | 1.6 | 33        |
| 8  | Understory fine roots are more ephemeral than those of trees in subtropical Chinese fir ( <i>Cunninghamia lanceolata</i> (Lamb.) Hook) stands. <i>Annals of Forest Science</i> , 2016, 73, 657-667.        | 0.8 | 10        |
| 9  | Large amounts of easily decomposable carbon stored in subtropical forest subsoil are associated with r-strategy-dominated soil microbes. <i>Soil Biology and Biochemistry</i> , 2016, 95, 233-242.         | 4.2 | 54        |
| 10 | Edaphic rather than climatic controls over <sup>13</sup> C enrichment between soil and vegetation in alpine grasslands on the Tibetan Plateau. <i>Functional Ecology</i> , 2015, 29, 839-848.              | 1.7 | 55        |
| 11 | Sampling root-respired CO <sub>2</sub> in-situ for <sup>13</sup> C measurement. <i>Plant and Soil</i> , 2015, 393, 259-271.  | 1.8 | 4         |
| 12 | Allometric constraints on, and trade-offs in, belowground carbon allocation and their control of soil respiration across global forest ecosystems. <i>Global Change Biology</i> , 2014, 20, 1674-1684.     | 4.2 | 36        |
| 13 | Minimising methodological biases to improve the accuracy of partitioning soil respiration using natural abundance <sup>13</sup> C. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 2341-2351. | 0.7 | 15        |
| 14 | Temporal and land use effects on soil bacterial community structure of the machair, an EU Habitats Directive Annex I low-input agricultural system. <i>Applied Soil Ecology</i> , 2014, 73, 116-123.       | 2.1 | 12        |
| 15 | Priming of soil organic matter mineralisation is intrinsically insensitive to temperature. <i>Soil Biology and Biochemistry</i> , 2013, 66, 20-28.   | 4.2 | 58        |
| 16 | Plant ecology's guilty little secret: understanding the dynamics of plant competition. <i>Functional Ecology</i> , 2013, 27, 918-929.  | 1.7 | 92        |
| 17 | Vegetation and Soil <sup>15</sup> N Natural Abundance in Alpine Grasslands on the Tibetan Plateau: Patterns and Implications. <i>Ecosystems</i> , 2013, 16, 1013-1024.                                     | 1.6 | 33        |
| 18 | Introduction to the Special Feature on Mechanisms of Plant Competition. <i>Functional Ecology</i> , 2013, 27, 831-832.   | 1.7 | 2         |

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|----|--|-----|-----------|
| 19 | Allocation of gross primary production in forest ecosystems: allometric constraints and environmental responses. <i>New Phytologist</i> , 2013, 200, 1176-1186.                                | 3.5 | 60        |
| 20 | Widespread decreases in topsoil inorganic carbon stocks across China's grasslands during 1980s–2000s. <i>Global Change Biology</i> , 2012, 18, 3672-3680.                                      | 4.2 | 65        |
| 21 | A New Hammer to Crack an Old Nut: Interspecific Competitive Resource Capture by Plants Is Regulated by Nutrient Supply, Not Climate. <i>PLoS ONE</i> , 2012, 7, e29413.                        | 1.1 | 24        |
| 22 | Dynamic trajectories of growth and nitrogen capture by competing plants. <i>New Phytologist</i> , 2012, 193, 948-958.  | 3.5 | 50        |
| 23 | Significant soil acidification across northern China's grasslands during 1980s–2000s. <i>Global Change Biology</i> , 2012, 18, 2292-2300.  | 4.2 | 200       |
| 24 | Dual-chamber measurements of $\delta^{13}C$ of soil-respired CO <sub>2</sub> partitioned using a field-based three end-member model. <i>Soil Biology and Biochemistry</i> , 2012, 47, 106-115. | 4.2 | 17        |
| 25 | Root–shoot growth responses during interspecific competition quantified using allometric modelling. <i>Annals of Botany</i> , 2010, 106, 921-926.  | 1.4 | 41        |
| 26 | Implications of a large global root biomass for carbon sink estimates and for soil carbon dynamics. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 2753-2759.     | 1.2 | 84        |
| 27 | PCR profiling of ammonia-oxidizer communities in acidic soils subjected to nitrogen and sulphur deposition. <i>FEMS Microbiology Ecology</i> , 2007, 61, 305-316.                              | 1.3 | 35        |
| 28 | A dynamic model of Rubisco turnover in cereal leaves. <i>New Phytologist</i> , 2006, 169, 493-504.   | 3.5 | 74        |
| 29 | On modelling Rubisco turnover: dynamics and applicability. <i>New Phytologist</i> , 2006, 170, 204-205.  | 3.5 | 1         |
| 30 | Nutrient fluxes via litterfall and leaf litter decomposition vary across a gradient of soil nutrient supply in a lowland tropical rain forest. <i>Plant and Soil</i> , 2006, 288, 197-215.     | 1.8 | 94        |
| 31 | Uptake and assimilation of nitrogen from solutions containing multiple N sources. <i>Plant, Cell and Environment</i> , 2005, 28, 813-821.  | 2.8 | 73        |
| 32 | Scaling the depths: below-ground allocation in plants, forests and biomes. <i>Functional Ecology</i> , 2004, 18, 290-295.  | 1.7 | 70        |
| 33 | Modelling Cereal Root Systems for Water and Nitrogen Capture: Towards an Economic Optimum. <i>Annals of Botany</i> , 2003, 91, 383-390.  | 1.4 | 213       |
| 34 | Above-ground grazing affects floristic composition and modifies soil trophic interactions. <i>Soil Biology and Biochemistry</i> , 2002, 34, 1507-1512.   | 4.2 | 25        |
| 35 | Root proliferation, nitrate inflow and their carbon costs during nitrogen capture by competing plants in patchy soil. , 2002, , 41-50.   |     | 17        |
| 36 | $\delta^{15}N$ as an integrator of the nitrogen cycle. <i>Trends in Ecology and Evolution</i> , 2001, 16, 153-162.   | 4.2 | 1,085     |

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|----|--|-----|-----------|
| 37 | Title is missing!. Plant and Soil, 2001, 232, 41-50.   | 1.8 | 105       |
| 38 | Are microorganisms more effective than plants at competing for nitrogen?. Trends in Plant Science, 2000, 5, 304-308.   | 4.3 | 621       |
| 39 | Decomposition of <sup>13</sup> C-labelled wheat root systems following growth at different CO <sub>2</sub> concentrations. Soil Biology and Biochemistry, 2000, 32, 403-413.                               | 4.2 | 32        |
| 40 | Natural abundances of <sup>15</sup> N and <sup>13</sup> C indicating physiological responses in <i>Petunia hybrida</i> to infection by longidorid nematodes and nepoviruses. Nematology, 1999, 1, 315-320. | 0.2 | 3         |
| 41 | Plant root proliferation in nitrogen-rich patches confers competitive advantage. Proceedings of the Royal Society B: Biological Sciences, 1999, 266, 431-435.  | 1.2 | 293       |
| 42 | The magnitude and control of carbon transfer between plants linked by a common mycorrhizal network. Journal of Experimental Botany, 1999, 50, 9-13.  | 2.4 | 50        |
| 43 | Title is missing!. Plant and Soil, 1998, 202, 263-270.   | 1.8 | 22        |
| 44 | A theory for <sup>15</sup> N/ <sup>14</sup> N fractionation in nitrate-grown vascular plants. Planta, 1998, 205, 397-406.  | 1.6 | 123       |
| 45 | A possible plant-mediated feedback between elevated CO <sub>2</sub> , denitrification and the enhanced greenhouse effect. Soil Biology and Biochemistry, 1998, 31, 43-53.                                  | 4.2 | 45        |
| 46 | Effects of elevated atmospheric CO <sub>2</sub> and soil water availability on root biomass, root length, and N, P and K uptake by wheat. New Phytologist, 1997, 135, 455-465.                             | 3.5 | 91        |
| 47 | Variation, co-ordination and compensation in root systems in relation to soil variability. , 1997, , 57-66.  |     | 15        |
| 48 | Variation, co-ordination and compensation in root systems in relation to soil variability. Plant and Soil, 1996, 187, 57-66.   | 1.8 | 58        |
| 49 | Effects of inorganic nitrogen application on the dynamics of the soil solution composition in the root zone of maize. Plant and Soil, 1996, 180, 1-9.  | 1.8 | 42        |
| 50 | Plant growth chambers for the simultaneous control of soil and air temperatures, and of atmospheric carbon dioxide concentration. Global Change Biology, 1995, 1, 455-464.                                 | 4.2 | 9         |
| 51 | The responses of plants to non-uniform supplies of nutrients. New Phytologist, 1994, 127, 635-674.   | 3.5 | 734       |
| 52 | Capture of nitrate from soil by wheat in relation to root length, nitrogen inflow and availability. New Phytologist, 1994, 128, 297-305.   | 3.5 | 79        |
| 53 | Root-induced nitrogen mineralisation: A nitrogen balance model. Plant and Soil, 1992, 139, 253-263.  | 1.8 | 70        |
| 54 | Phosphorus availability and cortical senescence in cereal roots. Journal of Theoretical Biology, 1990, 145, 257-265.   | 0.8 | 31        |

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|----|---|-----|-----------|
| 55 | Root-induced nitrogen mineralisation: A theoretical analysis. <i>Plant and Soil</i> , 1989, 117, 185-193.   | 1.8 | 63        |
| 56 | Can the nutrient demand of a plant be sustained by an increase in local inflow rate?. <i>Journal of Theoretical Biology</i> , 1989, 138, 551-554.   | 0.8 | 1         |
| 57 | Optimal relations between root length and nutrient inflow rate in plant root systems. <i>Journal of Theoretical Biology</i> , 1988, 135, 359-370.   | 0.8 | 7         |
| 58 | ROOT HAIRS AND PLANT GROWTH AT LOW NITROGEN AVAILABILITIES. <i>New Phytologist</i> , 1987, 107, 681-693.  | 3.5 | 67        |
| 59 | INVESTIGATIONS INTO THE AUKHORN PEAT MOUNDS, KEISS, CAITHNESS: POLLEN, PLANT MACROFOSSIL AND CHARCOAL ANALYSES. <i>New Phytologist</i> , 1987, 106, 185-200.                                | 3.5 | 22        |
| 60 | Compensatory Changes in the Partitioning of Dry Matter in Relation to Nitrogen Uptake and Optimal Variations in Growth. <i>Annals of Botany</i> , 1986, 58, 841-848.                        | 1.4 | 86        |
| 61 | Limits to nutrient inflow rates in roots and root systems. <i>Physiologia Plantarum</i> , 1986, 68, 551-559.  | 2.6 | 64        |
| 62 | Calcium as an environmental variable. <i>Plant, Cell and Environment</i> , 1984, 7, 381-390.  | 2.8 | 47        |
| 63 | Relationships between root morphology and nitrogen availability in a recent theoretical model describing nitrogen uptake from soil.. <i>Plant, Cell and Environment</i> , 1983, 6, 641-647. | 2.8 | 69        |
| 64 | Relationships between root morphology and nitrogen availability in a recent theoretical model describing nitrogen uptake from soil. <i>Plant, Cell and Environment</i> , 1983, 6, 641-647.  | 2.8 | 55        |