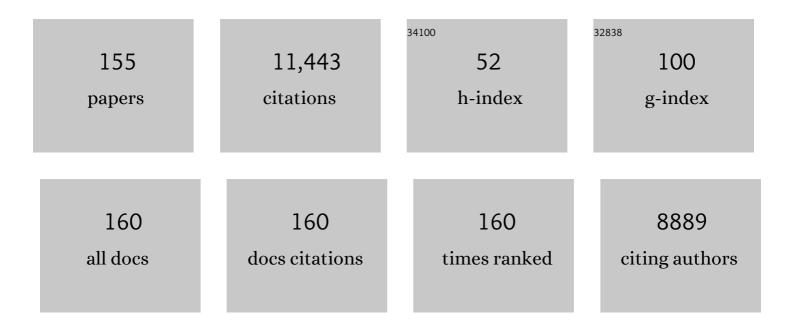
Anthony Bengough

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Root reinforcement: continuum framework for constitutive modelling. Geotechnique, 2023, 73, 600-613. | 4.0 | 4 |
| 2 | Soil penetration by maize roots is negatively related to ethyleneâ€ i nduced thickening. Plant, Cell and Environment, 2022, 45, 789-804. | 5.7 | 23 |
| 3 | Modelling of stress transfer in root-reinforced soils informed by four-dimensional X-ray computed tomography and digital volume correlation data. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2022, 478, 20210210. | 2.1 | 2 |
| 4 | Hydro-mechanical reinforcement of contrasting woody species: a full-scale investigation of a field slope. Geotechnique, 2021, 71, 970-984. | 4.0 | 19 |
| 5 | Root traits as drivers of plant and ecosystem functioning: current understanding, pitfalls and future research needs. New Phytologist, 2021, 232, 1123-1158. | 7.3 | 277 |
| 6 | Spectral and Growth Characteristics of Willows and Maize in Soil Contaminated with a Layer of Crude or Refined Oil. Remote Sensing, 2021, 13, 3376. | 4.0 | 5 |
| 7 | Reversible and irreversible root phenotypic plasticity under fluctuating soil physical conditions. Environmental and Experimental Botany, 2021, 188, 104494. | 4.2 | 7 |
| 8 | Root age influences failure location in grass species during mechanical testing. Plant and Soil, 2021, 461, 457-469. | 3.7 | 11 |
| 9 | A starting guide to root ecology: strengthening ecological concepts and standardising root classification, sampling, processing and trait measurements. New Phytologist, 2021, 232, 973-1122. | 7.3 | 216 |
| 10 | Modelling the seismic performance of root-reinforced slopes using the finite-element method. Geotechnique, 2020, 70, 375-391. | 4.0 | 15 |
| 11 | A critical evaluation of predictive models for rooted soil strength with application to predicting the seismic deformation of rooted slopes. Landslides, 2020, 17, 93-109. | 5.4 | 23 |
| 12 | The helical motions of roots are linked to avoidance of particle forces in soil. New Phytologist, 2020, 225, 2356-2367. | 7.3 | 8 |
| 13 | Significance of root hairs at the field scale – modelling root water and phosphorus uptake under different field conditions. Plant and Soil, 2020, 447, 281-304. | 3.7 | 42 |
| 14 | Reorganisation of rhizosphere soil pore structure by wild plant species in compacted soils. Journal of Experimental Botany, 2020, 71, 6107-6115. | 4.8 | 14 |
| 15 | Root anatomical traits contribute to deeper rooting of maize under compacted field conditions. Journal of Experimental Botany, 2020, 71, 4243-4257. | 4.8 | 48 |
| 16 | Root branching affects the mobilisation of root-reinforcement in direct shear. E3S Web of Conferences, 2019, 92, 12010. | 0.5 | 7 |
| 17 | Potential of thermal imaging in soil bioengineering to assess plant ability for soil water removal and air cooling. Ecological Engineering, 2019, 141, 105599. | 3.6 | 5 |
| 18 | Role of hydromechanical properties of plant roots in unsaturated soil shear strength. Japanese Geotechnical Society Special Publication, 2019, 7, 133-138. | 0.2 | 4 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Root-reinforced sand: kinematic response of the soil. E3S Web of Conferences, 2019, 92, 12011. | 0.5 | 3 |
| 20 | Surface tension, rheology and hydrophobicity of rhizodeposits and seed mucilage influence soil water retention and hysteresis. Plant and Soil, 2019, 437, 65-81. | 3.7 | 53 |
| 21 | Measuring the Strength of Root-Reinforced Soil on Steep Natural Slopes Using the Corkscrew Extraction Method. Forests, 2019, 10, 1135. | 2.1 | 5 |
| 22 | Analysis of coupled axial and lateral deformation of roots in soil. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 684-707. | 3.3 | 14 |
| 23 | Imaging microstructure of the barley rhizosphere: particle packing and root hair influences. New Phytologist, 2019, 221, 1878-1889. | 7.3 | 51 |
| 24 | Measuring root system traits of wheat in 2D images to parameterize 3D root architecture models. Plant and Soil, 2018, 425, 457-477. | 3.7 | 21 |
| 25 | Hydrologic reinforcement induced by contrasting woody species during summer and winter. Plant and Soil, 2018, 427, 369-390. | 3.7 | 23 |
| 26 | Mechanistic framework to link root growth models with weather and soil physical properties, including example applications to soybean growth in Brazil. Plant and Soil, 2018, 428, 67-92. | 3.7 | 45 |
| 27 | In situ measurement of root reinforcement using corkscrew extraction method. Canadian Geotechnical Journal, 2018, 55, 1372-1390. | 2.8 | 31 |
| 28 | The search for the meaning of life in soil: an opinion. European Journal of Soil Science, 2018, 69, 31-38. | 3.9 | 15 |
| 29 | Morphological and genetic characterisation of the root system architecture of selected barley recombinant chromosome substitution lines using an integrated phenotyping approach. Journal of Theoretical Biology, 2018, 447, 84-97. | 1.7 | 9 |
| 30 | In situ root identification through blade penetrometer testing – part 2: field testing. Geotechnique, 2018, 68, 320-331. | 4.0 | 10 |
| 31 | In situ root identification through blade penetrometer testing – part 1: interpretative models and laboratory testing. Geotechnique, 2018, 68, 303-319. | 4.0 | 5 |
| 32 | Effects of root dehydration on biomechanical properties of woody roots of Ulex europaeus. Plant and Soil, 2018, 431, 347-369. | 3.7 | 41 |
| 33 | Rhizosphere cale Quantification of Hydraulic and Mechanical Properties of Soil Impacted by Root and Seed Exudates. Vadose Zone Journal, 2018, 17, 1-12. | 2.2 | 41 |
| 34 | Scaling of plant roots for geotechnical centrifuge tests using juvenile live roots or 3D printed analogues. , 2018, , 401-406. | | 0 |
| 35 | Root biomechanical properties during establishment of woody perennials. Ecological Engineering, 2017, 109, 196-206. | 3.6 | 60 |
| 36 | Small-scale modelling of plant root systems using 3D printing, with applications to investigate the role of vegetation on earthquake-induced landslides. Landslides, 2017, 14, 1747-1765. | 5.4 | 49 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | A new model for root growth in soil with macropores. Plant and Soil, 2017, 415, 99-116. | 3.7 | 32 |
| 38 | Scaling of the reinforcement of soil slopes by living plants in a geotechnical centrifuge. Ecological Engineering, 2017, 109, 207-227. | 3.6 | 70 |
| 39 | Highâ€resolution synchrotron imaging shows that root hairs influence rhizosphere soil structure formation. New Phytologist, 2017, 216, 124-135. | 7.3 | 116 |
| 40 | Fluid flow in porous media using image-based modelling to parametrize Richards' equation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170178. | 2.1 | 17 |
| 41 | Plant exudates may stabilize or weaken soil depending on species, origin and time. European Journal of Soil Science, 2017, 68, 806-816. | 3.9 | 144 |
| 42 | Correlating hydrologic reinforcement of vegetated soil with plant traits during establishment of woody perennials. Plant and Soil, 2017, 416, 437-451. | 3.7 | 53 |
| 43 | Developmental morphology of cover crop species exhibit contrasting behaviour to changes in soil bulk density, revealed by X-ray computed tomography. PLoS ONE, 2017, 12, e0181872. | 2.5 | 48 |
| 44 | Non-invasive Protocol for Kinematic Monitoring of Root Growth under Infrared Light. Bio-protocol, 2017, 7, e2390. | 0.4 | 1 |
| 45 | Desirable leaf traits for hydrological reinforcement of soil. E3S Web of Conferences, 2016, 9, 12006. | 0.5 | 5 |
| 46 | Rainfall infiltration and soil hydrological characteristics below ancient forest, planted forest and grassland in a temperate northern climate. Ecohydrology, 2016, 9, 585-600. | 2.4 | 36 |
| 47 | 3D deformation field in growing plant roots reveals both mechanical and biological responses to axial mechanical forces. Journal of Experimental Botany, 2016, 67, 5605-5614. | 4.8 | 30 |
| 48 | New in situ techniques for measuring the properties of root-reinforced soil – laboratory evaluation. Geotechnique, 2016, 66, 27-40. | 4.0 | 25 |
| 49 | Root hairs aid soil penetration by anchoring the root surface to pore walls. Journal of Experimental Botany, 2016, 67, 1071-1078. | 4.8 | 75 |
| 50 | Analysis of root growth from a phenotyping data set using a density-based model. Journal of Experimental Botany, 2016, 67, 1045-1058. | 4.8 | 26 |
| 51 | Reinforcement of Soil by Fibrous Roots. Advances in Agricultural Systems Modeling, 2015, , 197-228. | 0.3 | 2 |
| 52 | Effect of root age on the biomechanics of seminal and nodal roots of barley (Hordeum vulgare L.) in contrasting soil environments. Plant and Soil, 2015, 395, 253-261. | 3.7 | 35 |
| 53 | Root hair length and rhizosheath mass depend on soil porosity, strength and water content in barley genotypes. Planta, 2014, 239, 643-651. | 3.2 | 101 |
| 54 | Understanding the genetic control and physiological traits associated with rhizosheath production by barley (<i><scp>H</scp>ordeum vulgare</i>). New Phytologist, 2014, 203, 195-205. | 7.3 | 105 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Root elongation rate is correlated with the length of the bare root apex of maize and lupin roots despite contrasting responses of root growth to compact and dry soils. Plant and Soil, 2013, 372, 609-618. | 3.7 | 14 |
| 56 | Biomechanics of nodal, seminal and lateral roots of barley: effects of diameter, waterlogging and mechanical impedance. Plant and Soil, 2013, 370, 407-418. | 3.7 | 57 |
| 57 | Timelapse scanning reveals spatial variation in tomato (Solanum lycopersicum L.) root elongation rates during partial waterlogging. Plant and Soil, 2013, 369, 467-477. | 3.7 | 34 |
| 58 | Root hairs improve root penetration, root–soil contact, and phosphorus acquisition in soils of different strength. Journal of Experimental Botany, 2013, 64, 3711-3721. | 4.8 | 215 |
| 59 | Contributions of roots and rootstocks to sustainable, intensified crop production. Journal of Experimental Botany, 2013, 64, 1209-1222. | 4.8 | 139 |
| 60 | Application of Bayesian Belief Networks to quantify and map areas at risk to soil threats: Using soil compaction as an example. Soil and Tillage Research, 2013, 132, 56-68. | 5.6 | 50 |
| 61 | Matching roots to their environment. Annals of Botany, 2013, 112, 207-222. | 2.9 | 247 |
| 62 | Can root electrical capacitance be used to predict root mass in soil?. Annals of Botany, 2013, 112, 457-464. | 2.9 | 49 |
| 63 | Preface. Journal of Experimental Botany, 2013, 64, 1179-1179. | 4.8 | 1 |
| 64 | Biophysics of the Vadose Zone: From Reality to Model Systems and Back Again. Vadose Zone Journal, 2013, 12, 1-17. | 2.2 | 47 |
| 65 | Root–soil friction: quantification provides evidence for measurable benefits for manipulation of rootâ€tip traits. Plant, Cell and Environment, 2013, 36, 1085-1092. | 5.7 | 35 |
| 66 | Soil strength and macropore volume limit root elongation rates in many UK agricultural soils. Annals of Botany, 2012, 110, 259-270. | 2.9 | 138 |
| 67 | Analyzing Lateral Root Development: How to Move Forward. Plant Cell, 2012, 24, 15-20. | 6.6 | 125 |
| 68 | A new physical interpretation of plant root capacitance. Journal of Experimental Botany, 2012, 63, 6149-6159. | 4.8 | 49 |
| 69 | Water Dynamics of the Root Zone: Rhizosphere Biophysics and Its Control on Soil Hydrology. Vadose Zone Journal, 2012, 11, vzj2011.0111. | 2.2 | 105 |
| 70 | Predicting Penetrometer Resistance from the Compression Characteristic of Soil. Soil Science Society of America Journal, 2012, 76, 361-369. | 2.2 | 21 |
| 71 | Centrifuge modelling of soil slopes containing model plant roots. Canadian Geotechnical Journal, 2012, 49, 1-17. | 2.8 | 40 |
| 72 | Estimating root–soil contact from 3D Xâ€ray microtomographs. European Journal of Soil Science, 2012, 63, 776-786. | 3.9 | 55 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Root elongation is restricted by axial but not by radial pressures: so what happens in field soil?. Plant and Soil, 2012, 360, 15-18. | 3.7 | 65 |
| 74 | Soil tillage effects on the efficacy of cultivars and their mixtures in winter barley. Field Crops Research, 2012, 128, 91-100. | 5.1 | 34 |
| 75 | Root elongation, water stress, and mechanical impedance: a review of limiting stresses and beneficial root tip traits. Journal of Experimental Botany, 2011, 62, 59-68. | 4.8 | 766 |
| 76 | Automated motion estimation of root responses to sucrose in two Arabidopsis thaliana genotypes using confocal microscopy. Planta, 2011, 234, 769-784. | 3.2 | 17 |
| 77 | PIV as a method for quantifying root cell growth and particle displacement in confocal images. Microscopy Research and Technique, 2010, 73, 27-36. | 2.2 | 20 |
| 78 | Estimating the motion of plant root cells from in vivo confocal laser scanning microscopy images. Machine Vision and Applications, 2010, 21, 921-939. | 2.7 | 19 |
| 79 | Soil compaction–N interactions in barley: Root growth and tissue composition. Soil and Tillage Research, 2010, 106, 241-246. | 5.6 | 44 |
| 80 | Planting density influence on fibrous root reinforcement of soils. Ecological Engineering, 2010, 36, 276-284. | 3.6 | 156 |
| 81 | Quantifying rhizosphere particle movement around mutant maize roots using timeâ€lapse imaging and particle image velocimetry. European Journal of Soil Science, 2010, 61, 926-939. | 3.9 | 54 |
| 82 | Root growth models: towards a new generation of continuous approaches. Journal of Experimental Botany, 2010, 61, 2131-2143. | 4.8 | 132 |
| 83 | Centrifuge modelling of soil slopes reinforced with vegetation. Canadian Geotechnical Journal, 2010, 47, 1415-1430. | 2.8 | 51 |
| 84 | Resistance of simple plant root systems to uplift loads. Canadian Geotechnical Journal, 2010, 47, 78-95. | 2.8 | 36 |
| 85 | Scaling root growth responses from seedlings to field. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 153, S222. | 1.8 | 0 |
| 86 | Imaging the 3D kinematics of circumnutation in maize roots. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 153, S225. | 1.8 | 0 |
| 87 | Disentangling the impact of AM fungi versus roots on soil structure and water transport. Plant and Soil, 2009, 314, 183-196. | 3.7 | 159 |
| 88 | Measuring root traits in barley (Hordeum vulgare ssp. vulgare and ssp. spontaneum) seedlings using gel chambers, soil sacs and X-ray microtomography. Plant and Soil, 2009, 316, 285-297. | 3.7 | 127 |
| 89 | Rhizosphere: biophysics, biogeochemistry and ecological relevance. Plant and Soil, 2009, 321, 117-152. | 3.7 | 950 |
| 90 | Desirable plant root traits for protecting natural and engineered slopes against landslides. Plant and Soil, 2009, 324, 1-30. | 3.7 | 513 |

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|-----|---|-----|-----------|
| 91 | Quantitative image analysis of earthworm-mediated soil displacement. Biology and Fertility of Soils, 2009, 45, 821-828. | 4.3 | 22 |
| 92 | Deep rooting and drought screening of cereal crops: A novel field-based method and its application. Field Crops Research, 2009, 112, 165-171. | 5.1 | 85 |
| 93 | Root phenomics of crops: opportunities and challenges. Functional Plant Biology, 2009, 36, 922. | 2.1 | 163 |
| 94 | Mechanical Reinforcement of Soil by Willow Roots: Impacts of Root Properties and Root Failure Mechanism. Soil Science Society of America Journal, 2009, 73, 1276-1285. | 2.2 | 128 |
| 95 | Centrifuge modelling of climatic effects on clay embankments. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2009, 162, 91-100. | 0.7 | 23 |
| 96 | Characterisation of flow paths and saturated conductivity in a soil block in relation to chloride breakthrough. Journal of Hydrology, 2008, 348, 431-441. | 5.4 | 16 |
| 97 | Performance evaluation of the cellâ€based algorithms for domain decomposition in flow simulation. International Journal of Numerical Methods for Heat and Fluid Flow, 2008, 18, 656-672. | 2.8 | 9 |
| 98 | Material stiffness, branching pattern and soil matric potential affect the pullout resistance of model root systems. European Journal of Soil Science, 2007, 58, 1471-1481. | 3.9 | 110 |
| 99 | Root responses to soil physical conditions; growth dynamics from field to cell. Journal of Experimental Botany, 2006, 57, 437-447. | 4.8 | 399 |
| 100 | Impact of fungal and bacterial biocides on microbial induced water repellency in arable soil. Geoderma, 2006, 135, 72-80. | 5.1 | 66 |
| 101 | Part-Based Multi-Frame Registration for Estimation of the Growth Of Cellular Networks in Plant Roots. , 2006, , . | | 7 |
| 102 | Biomechanics of Plant Roots: estimating Localised Deformation with Particle Image Velocimetry. Biosystems Engineering, 2006, 94, 119-132. | 4.3 | 19 |
| 103 | Upscaling from Rhizosphere to Whole Root System: Modelling the Effects of Phospholipid Surfactants on Water and Nutrient Uptake. Plant and Soil, 2006, 283, 57-72. | 3.7 | 57 |
| 104 | Root cap influences root colonisation by Pseudomonas fluorescens SBW25 on maize. FEMS Microbiology Ecology, 2005, 54, 123-130. | 2.7 | 53 |
| 105 | Domain-decomposition method for parallel lattice Boltzmann simulation of incompressible flow in porous media. Physical Review E, 2005, 72, 016706. | 2.1 | 68 |
| 106 | Determination of soil hydraulic conductivity with the lattice Boltzmann method and soil thin-section technique. Journal of Hydrology, 2005, 306, 59-70. | 5.4 | 73 |
| 107 | A mass balance based numerical method for the fractional advection-dispersion equation: Theory and application. Water Resources Research, 2005, 41, . | 4.2 | 74 |
| 108 | Root Border Cells Take Up and Release Glucose-C. Annals of Botany, 2004, 93, 221-224. | 2.9 | 30 |

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| 109 | Method to quantify root border cells in sandy soil. Soil Biology and Biochemistry, 2004, 36, 1517-1519. | 8.8 | 11 |
| 110 | Gel observation chamber for rapid screening of root traits in cereal seedlings. Plant and Soil, 2004, 262, 63-70. | 3.7 | 118 |
| 111 | Spatial variation of effective porosity and its implications for discharge in an upland headwater catchment in Scotland. Journal of Hydrology, 2004, 290, 217-228. | 5.4 | 20 |
| 112 | Title is missing!. Plant and Soil, 2003, 250, 273-282. | 3.7 | 97 |
| 113 | Plant roots release phospholipid surfactants that modify the physical and chemical properties of soil. New Phytologist, 2003, 157, 315-326. | 7.3 | 250 |
| 114 | Plant influence on rhizosphere hydraulic properties: direct measurements using a miniaturized infiltrometer. New Phytologist, 2003, 157, 597-603. | 7.3 | 108 |
| 115 | Root cap structure and cell production rates of maize (Zea mays) roots in compacted sand. New Phytologist, 2003, 160, 127-134. | 7.3 | 51 |
| 116 | Root cap removal increases root penetration resistance in maize (Zea mays L.). Journal of Experimental Botany, 2003, 54, 2105-2109. | 4.8 | 71 |
| 117 | Soil factors determined nematode community composition in a two year pot experiment. Nematology, 2003, 5, 889-897. | 0.6 | 28 |
| 118 | Does the Presence of Detached Root Border Cells of Zea mays Alter the Activity of the Pathogenic Nematode Meloidogyne incognita?. Phytopathology, 2003, 93, 1111-1114. | 2.2 | 22 |
| 119 | The extent to which nematode communities are affected by soil factors-a pot experiment. Nematology, 2002, 4, 943-952. | 0.6 | 23 |
| 120 | A novel three-dimensional lattice Boltzmann model for solute transport in variably saturated porous media. Water Resources Research, 2002, 38, 6-1-6-10. | 4.2 | 46 |
| 121 | Efficient methods for solving water flow in variably saturated soils under prescribed flux infiltration. Journal of Hydrology, 2002, 260, 75-87. | 5.4 | 18 |
| 122 | Root Caps and Rhizosphere. Journal of Plant Growth Regulation, 2002, 21, 352-367. | 5.1 | 144 |
| 123 | Influence of soil strength on root growth: experiments and analysis using a critical-state model. European Journal of Soil Science, 2002, 53, 119-127. | 3.9 | 74 |
| 124 | A lattice BGK model for advection and anisotropic dispersion equation. Advances in Water Resources, 2002, 25, 1-8. | 3.8 | 107 |
| 125 | On boundary conditions in the lattice Boltzmann model for advection and anisotropic dispersion equation. Advances in Water Resources, 2002, 25, 601-609. | 3.8 | 44 |
| 126 | Image Analysis of Maize Root Caps—Estimating Cell Numbers from 2-D Longitudinal Sections. Annals of Botany, 2001, 87, 693-698. | 2.9 | 14 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Sloughing of cap cells and carbon exudation from maize seedling roots in compacted sand. New Phytologist, 2000, 145, 477-482. | 7.3 | 114 |
| 128 | Root- and microbial-derived mucilages affect soil structure and water transport. European Journal of Soil Science, 2000, 51, 435-443. | 3.9 | 340 |
| 129 | The effect of mechanical impedance on root growth in pea (Pisum sativum). II. Cell expansion and wall rheology during recovery. Physiologia Plantarum, 2000, 109, 150-159. | 5.2 | 54 |
| 130 | The effect of mechanical impedance on root growth in pea (Pisum sativum). I. Rates of cell flux, mitosis, and strain during recovery. Physiologia Plantarum, 1999, 107, 277-286. | 5.2 | 43 |
| 131 | Tribology of the root cap in maize (Zea mays) and peas (Pisum sativum). New Phytologist, 1999, 142, 421-425. | 7.3 | 21 |
| 132 | Title is missing!. Plant and Soil, 1999, 209, 101-109. | 3.7 | 25 |
| 133 | Title is missing!. Plant and Soil, 1998, 200, 157-167. | 3.7 | 44 |
| 134 | Water stress induced by PEG decreases the maximum growth pressure of the roots of pea seedlings. Journal of Experimental Botany, 1998, 49, 1689-1694. | 4.8 | 45 |
| 135 | Sloughing of root cap cells decreases the frictional resistance to maize (Zea maysL.) root growth. Journal of Experimental Botany, 1997, 48, 885-893. | 4.8 | 134 |
| 136 | Estimating soil frictional resistance to metal probes and its relevance to the penetration of soil by roots. European Journal of Soil Science, 1997, 48, 603-612. | 3.9 | 41 |
| 137 | A biophysical analysis of root growth under mechanical stress. Plant and Soil, 1997, 189, 155-164. | 3.7 | 88 |
| 138 | Modelling minirhizotron observations to test experimental procedures. Plant and Soil, 1997, 189, 81-89. | 3.7 | 22 |
| 139 | Mechanical impedance of root growth directly reduces leaf elongation rates of cereals. New Phytologist, 1997, 135, 613-619. | 7.3 | 69 |
| 140 | Modelling Rooting Depth and Soil Strength in a Drying Soil Profile. Journal of Theoretical Biology, 1997, 186, 327-338. | 1.7 | 52 |
| 141 | Biophysics of the growth responses of pea roots to changes in penetration resistance. Plant and Soil, 1994, 167, 135-141. | 3.7 | 22 |
| 142 | Simultaneous measurement of root force and elongation for seedling pea roots. Journal of Experimental Botany, 1994, 45, 95-102. | 4.8 | 39 |
| 143 | Differences in potato development (Solanum tuberosum cv. Maris Piper) in zero and conventional traffic treatments are related to soil physical conditions and radiation interception. Soil and Tillage Research, 1993, 26, 341-359. | 5.6 | 8 |
| 144 | Root elongation of seedling peas through layered soil of different penetration resistances. Plant and Soil, 1993, 149, 129-139. | 3.7 | 72 |

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|-----|---|-----|-----------|
| 145 | Relations between root length densities and root intersections with horizontal and vertical planes using root growth modelling in 3-dimensions. Plant and Soil, 1992, 145, 245-252. | 3.7 | 42 |
| 146 | Non-destructive analysis of root growth in porous media. Plant, Cell and Environment, 1992, 15, 123-128. | 5.7 | 12 |
| 147 | Penetrometer resistance equation: Its derivation and the effect of soil adhesion. Biosystems Engineering, 1992, 53, 163-168. | 0.4 | 7 |
| 148 | Hardsetting and structural regeneration in two unstable British sandy loams and their influence on crop growth. Soil and Tillage Research, 1991, 19, 383-394. | 5.6 | 21 |
| 149 | The design, construction and use of a rotating-tip penetrometer. Biosystems Engineering, 1991, 48, 223-227. | 0.4 | 8 |
| 150 | Penetrometer resistance, root penetration resistance and root elongation rate in two sandy loam soils. Plant and Soil, 1991, 131, 59-66. | 3.7 | 138 |
| 151 | Mechanical impedance to root growth: a review of experimental techniques and root growth responses. Journal of Soil Science, 1990, 41, 341-358. | 1.2 | 485 |
| 152 | The resistance experienced by roots growing in a pressurised cell. A reappraisal. Plant and Soil, 1990, 123, 73-82. | 3.7 | 19 |
| 153 | Hard-setting soils. Soil Use and Management, 1987, 3, 79-83. | 4.9 | 97 |
| 154 | Rhizosphere Engineering by Plants: Quantifying Soil-Root Interactions. Advances in Agricultural Systems Modeling, 0, , 1-30. | 0.3 | 6 |
| 155 | Plant age effects on soil infiltration rate during early plant establishment. Geotechnique, 0, , 1-7. | 4.0 | 22 |