

# Paul D Hallett

## List of Publications by Year in descending order

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164  
papers

9,632  
citations

36303

51  
h-index

42399

92  
g-index

183  
all docs

183  
docs citations

183  
times ranked

9097  
citing authors

#	ARTICLE	IF	CITATIONS
1	Changes in Soil Properties Following the Establishment of Exclosures in Ethiopia: A Meta-Analysis. <i>Frontiers in Ecology and Evolution</i> , 2022, 10, .	2.2	4
2	Organic manure and lime change water vapour sorption of a red soil by altering water repellency and specific surface area. <i>European Journal of Soil Science</i> , 2022, 73, .	3.9	5
3	Building soil sustainability from root-soil interface traits. <i>Trends in Plant Science</i> , 2022, 27, 688-698.	8.8	24
4	Impact of root hairs on microscale soil physical properties in the field. <i>Plant and Soil</i> , 2022, 476, 491-509.	3.7	6
5	Dual-platform micromechanical characterization of soils: Oscillation shear rheometry and spherical indentation. <i>Soil and Tillage Research</i> , 2022, 223, 105467.	5.6	0
6	Significance of root hairs for plant performance under contrasting field conditions and water deficit. <i>Annals of Botany</i> , 2021, 128, 1-16.	2.9	66
7	A laboratory study to disentangle hydrological, mechanical and structural mechanisms of soil stabilization by plant mucilage between eroding and depositional zones of a slope. <i>European Journal of Soil Science</i> , 2021, 72, 125-140.	3.9	2
8	Variable impacts of reduced and zero tillage on soil carbon storage across 4-10 years of UK field experiments. <i>Journal of Soils and Sediments</i> , 2021, 21, 890-904.	3.0	8
9	Analysing and simulating spatial patterns of crop yield in Guizhou Province based on artificial neural networks. <i>Progress in Physical Geography</i> , 2021, 45, 33-52.	3.2	14
10	Role of microbial communities in conferring resistance and resilience of soil carbon and nitrogen cycling following contrasting stresses. <i>European Journal of Soil Biology</i> , 2021, 104, 103308.	3.2	5
11	Contrasting ability of deep and shallow rooting rice genotypes to grow through plough pans containing simulated biopores and cracks. <i>Plant and Soil</i> , 2021, 467, 515-530.	3.7	11
12	Importance of short-term temporal variability in soil physical properties for soil water modelling under different tillage practices. <i>Soil and Tillage Research</i> , 2021, 213, 105132.	5.6	11
13	Retention and release of nutrients from polyhalite to soil. <i>Soil Use and Management</i> , 2020, 36, 117-122.	4.9	4
14	Significance of root hairs at the field scale - modelling root water and phosphorus uptake under different field conditions. <i>Plant and Soil</i> , 2020, 447, 281-304.	3.7	42
15	Deep Nitrate Accumulation in a Highly Weathered Subtropical Critical Zone Depends on the Regolith Structure and Planting Year. <i>Environmental Science &amp; Technology</i> , 2020, 54, 13739-13747.	10.0	40
16	A framework for modelling soil structure dynamics induced by biological activity. <i>Global Change Biology</i> , 2020, 26, 5382-5403.	9.5	75
17	A systems model describing the impact of organic resource use on farming households in low to middle income countries. <i>Agricultural Systems</i> , 2020, 184, 102895.	6.1	2
18	Variable responses of maize root architecture in elite cultivars due to soil compaction and moisture. <i>Plant and Soil</i> , 2020, 455, 79-91.	3.7	22

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19	Landmark Papers: No. 9 Jarvis, N.J. 2007. A review of non-equilibrium water flow and solute transport in soil macropores: Principles, controlling factors and consequences for water quality. <i>European Journal of Soil Science</i> , 58, 523-546. <i>European Journal of Soil Science</i> , 2020, 71, 308-315.	3.9	1
20	<i>Brachiaria</i> species influence nitrate transport in soil by modifying soil structure with their root system. <i>Scientific Reports</i> , 2020, 10, 5072.	3.3	53
21	Physiological and yield response in maize in cohesive tropical soil is improved through the addition of gypsum and leguminous mulch. <i>Journal of Agricultural Science</i> , 2020, 158, 57-64.	1.3	1
22	Paleotopography continues to drive surface to deep-layer interactions in a subtropical Critical Zone Observatory. <i>Journal of Applied Geophysics</i> , 2020, 175, 103987.	2.1	4
23	Preface to the special issue on biohydrology dedicated to the memory of Dr. Louis W. Dekker. <i>Journal of Hydrology and Hydromechanics</i> , 2020, 68, 303-305.	2.0	0
24	Root moisture content influence on root tensile tests of herbaceous plants. <i>Catena</i> , 2019, 172, 140-147.	5.0	39
25	Transport, retention, and release of <i>Escherichia coli</i> and <i>Rhodococcus erythropolis</i> through dry natural soils as affected by water repellency. <i>Science of the Total Environment</i> , 2019, 694, 133666.	8.0	17
26	A Simple Modelling Framework for Shallow Subsurface Water Storage and Flow. <i>Water (Switzerland)</i> , 2019, 11, 1725.	2.7	1
27	Soil stabilisation by water repellency under no-till management for soils with contrasting mineralogy and carbon quality. <i>Geoderma</i> , 2019, 355, 113902.	5.1	35
28	Imparting water repellency in completely decomposed granite with Tung oil. <i>Journal of Cleaner Production</i> , 2019, 230, 1316-1328.	9.3	20
29	Rare earth oxides for labelling soil aggregate turnover: Impacts of soil properties, labelling method and aggregate structure. <i>Geoderma</i> , 2019, 351, 36-48.	5.1	17
30	Impact of soil puddling intensity on the root system architecture of rice ( <i>Oryza sativa</i> L.) seedlings. <i>Soil and Tillage Research</i> , 2019, 193, 1-7.	5.6	21
31	Resilience of soil functions to transient and persistent stresses is improved more by residue incorporation than the activity of earthworms. <i>Applied Soil Ecology</i> , 2019, 139, 10-14.	4.3	3
32	Residues with varying decomposability interact differently with seed or root exudate compounds to affect the biophysical behaviour of soil. <i>Geoderma</i> , 2019, 343, 50-59.	5.1	18
33	Surface tension, rheology and hydrophobicity of rhizodeposits and seed mucilage influence soil water retention and hysteresis. <i>Plant and Soil</i> , 2019, 437, 65-81.	3.7	53
34	Surface Tension of Aqueous Solutions of Small-Chain Amino and Organic Acids. <i>Journal of Chemical &amp; Engineering Data</i> , 2019, 64, 5049-5056.	1.9	16
35	Accumulation of nitrate and dissolved organic nitrogen at depth in a red soil Critical Zone. <i>Geoderma</i> , 2019, 337, 1175-1185.	5.1	45
36	Temporal dynamics and vertical distribution of newly-derived carbon from a C3/C4 conversion in an Ultisol after 30-yr fertilization. <i>Geoderma</i> , 2019, 337, 1077-1085.	5.1	12

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37	Imaging microstructure of the barley rhizosphere: particle packing and root hair influences. <i>New Phytologist</i> , 2019, 221, 1878-1889.	7.3	51
38	The role of sampling strategy on apparent temporal stability of soil moisture under subtropical hydroclimatic conditions. <i>Journal of Hydrology and Hydromechanics</i> , 2019, 67, 260-270.	2.0	10
39	Relating soil organic matter composition to soil water repellency for soil biopore surfaces different in history from two Bt horizons of a Haplic Luvisol. <i>Ecohydrology</i> , 2018, 11, e1949.	2.4	25
40	Biohydrologyâ€”Walking on drylands and swimming through pores. <i>Ecohydrology</i> , 2018, 11, e2040.	2.4	0
41	The effect of root exudates on rhizosphere water dynamics. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018, 474, 20180149.	2.1	8
42	Rhizosphereâ€”Scale Quantification of Hydraulic and Mechanical Properties of Soil Impacted by Root and Seed Exudates. <i>Vadose Zone Journal</i> , 2018, 17, 1-12.	2.2	41
43	Interaction between contrasting rice genotypes and soil physical conditions induced by hydraulic stresses typical of alternate wetting and drying irrigation of soil. <i>Plant and Soil</i> , 2018, 430, 233-243.	3.7	27
44	Extent and persistence of soil water repellency induced by pines in different geographic regions. <i>Journal of Hydrology and Hydromechanics</i> , 2018, 66, 360-368.	2.0	43
45	Scaling of plant roots for geotechnical centrifuge tests using juvenile live roots or 3D printed analogues. , 2018, , 401-406.		0
46	Gelifluction and Thixotropy of Maritime Antarctic Soils: Small-Scale Measurements with a Rotational Rheometer. <i>Permafrost and Periglacial Processes</i> , 2017, 28, 314-321.	3.4	2
47	Combined turnover of carbon and soil aggregates using rare earth oxides and isotopically labelled carbon as tracers. <i>Soil Biology and Biochemistry</i> , 2017, 109, 81-94.	8.8	81
48	Mapping and expression of genes associated with raspberry fruit ripening and softening. <i>Theoretical and Applied Genetics</i> , 2017, 130, 557-572.	3.6	29
49	Scaling of the reinforcement of soil slopes by living plants in a geotechnical centrifuge. <i>Ecological Engineering</i> , 2017, 109, 207-227.	3.6	70
50	Highâ€”resolution synchrotron imaging shows that root hairs influence rhizosphere soil structure formation. <i>New Phytologist</i> , 2017, 216, 124-135.	7.3	116
51	Fluid flow in porous media using image-based modelling to parametrize Richards' equation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170178.	2.1	17
52	Plant exudates may stabilize or weaken soil depending on species, origin and time. <i>European Journal of Soil Science</i> , 2017, 68, 806-816.	3.9	144
53	Physical protection by soil aggregates stabilizes soil organic carbon under simulated N deposition in a subtropical forest of China. <i>Geoderma</i> , 2017, 285, 323-332.	5.1	80
54	Plant exudates improve the mechanical conditions for root penetration through compacted soils. <i>Plant and Soil</i> , 2017, 421, 19-30.	3.7	49

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55	Modeling Soil Processes: Review, Key Challenges, and New Perspectives. <i>Vadose Zone Journal</i> , 2016, 15, 1-57.	2.2	445
56	Residue-C effects on denitrification vary with soil depth. <i>Soil Biology and Biochemistry</i> , 2016, 103, 365-375.	8.8	9
57	Evaluation of spot and passive sampling for monitoring, flux estimation and risk assessment of pesticides within the constraints of a typical regulatory monitoring scheme. <i>Science of the Total Environment</i> , 2016, 569-570, 1369-1379.	8.0	38
58	Le Bissonnais, Y. 1996. Aggregate stability and assessment of crustability and erodibility: 1. theory and methodology. <i>European Journal of Soil Science</i> , 47, 425-437. <i>European Journal of Soil Science</i> , 2016, 67, 5-10.	3.9	4
59	Soil water dynamics and availability for citrus and peanut along a hillslope at the Sunjia Red Soil Critical Zone Observatory (CZO). <i>Soil and Tillage Research</i> , 2016, 163, 110-118.	5.6	21
60	Thematic Issue on the Hydrological Effects of the Vegetation-Soil Complex. <i>Journal of Hydrology and Hydromechanics</i> , 2016, 64, 97-99.	2.0	0
61	Reinforcement of Soil by Fibrous Roots. <i>Advances in Agricultural Systems Modeling</i> , 2015, , 197-228.	0.3	2
62	Probing soil physical and biological resilience data from a broad sampling of arable farms in Scotland. <i>Soil Use and Management</i> , 2015, 31, 491-503.	4.9	4
63	Sustainable use of organic resources for bioenergy, food and water provision in rural Sub-Saharan Africa. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 50, 903-917.	16.4	44
64	Effect of root age on the biomechanics of seminal and nodal roots of barley ( <i>Hordeum vulgare</i> L.) in contrasting soil environments. <i>Plant and Soil</i> , 2015, 395, 253-261.	3.7	35
65	Improving intercropping: a synthesis of research in agronomy, plant physiology and ecology. <i>New Phytologist</i> , 2015, 206, 107-117.	7.3	805
66	Soil structure and its functions in ecosystems: Phase matter & scale matter. <i>Soil and Tillage Research</i> , 2015, 146, 1-3.	5.6	53
67	The effect of natural seed coatings of <i>Capsella bursa-pastoris</i> L. Medik. (shepherd's purse) on soil-water retention, stability and hydraulic conductivity. <i>Plant and Soil</i> , 2015, 387, 167-176.	3.7	25
68	Mitigating arable soil compaction: A review and analysis of available cost and benefit data. <i>Soil and Tillage Research</i> , 2015, 146, 10-25.	5.6	112
69	An automated microinfiltrometer to measure small-scale soil water infiltration properties. <i>Journal of Hydrology and Hydromechanics</i> , 2014, 62, 248-252.	2.0	8
70	Microbial properties and nitrogen contents of arable soils under different tillage regimes. <i>Soil Use and Management</i> , 2014, 30, 152-159.	4.9	15
71	Seasonal nitrous oxide emissions from field soils under reduced tillage, compost application or organic farming. <i>Agriculture, Ecosystems and Environment</i> , 2014, 189, 171-180.	5.3	41
72	Improved soil fertility from compost amendment increases root growth and reinforcement of surface soil on slopes. <i>Ecological Engineering</i> , 2014, 71, 458-465.	3.6	71

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73	Field Phenotyping and Long-Term Platforms to Characterise How Crop Genotypes Interact with Soil Processes and the Environment. <i>Agronomy</i> , 2014, 4, 242-278.	3.0	16
74	Tensile Strain-Rate Dependency of Pore Water Pressure and Failure Strength of Soil. <i>Vadose Zone Journal</i> , 2014, 13, 1-6.	2.2	3
75	Biomechanics of nodal, seminal and lateral roots of barley: effects of diameter, waterlogging and mechanical impedance. <i>Plant and Soil</i> , 2013, 370, 407-418.	3.7	57
76	Priming of soil organic matter mineralisation is intrinsically insensitive to temperature. <i>Soil Biology and Biochemistry</i> , 2013, 66, 20-28.	8.8	58
77	How do enzymes catalysing soil nitrogen transformations respond to changing temperatures?. <i>Biology and Fertility of Soils</i> , 2013, 49, 99-103.	4.3	25
78	Algae influence the hydrophysical parameters of a sandy soil. <i>Catena</i> , 2013, 108, 58-68.	5.0	93
79	Root hairs improve root penetration, root-soil contact, and phosphorus acquisition in soils of different strength. <i>Journal of Experimental Botany</i> , 2013, 64, 3711-3721.	4.8	215
80	Application of Bayesian Belief Networks to quantify and map areas at risk to soil threats: Using soil compaction as an example. <i>Soil and Tillage Research</i> , 2013, 132, 56-68.	5.6	50
81	Matching roots to their environment. <i>Annals of Botany</i> , 2013, 112, 207-222.	2.9	247
82	Adapting crops and cropping systems to future climates to ensure food security: The role of crop modelling. <i>Global Food Security</i> , 2013, 2, 24-28.	8.1	70
83	Soil physics: new approaches and emerging challenges. <i>European Journal of Soil Science</i> , 2013, 64, 277-278.	3.9	4
84	The rheological properties of the seed coat mucilage of <i>Capsella bursa-pastoris</i> L. Medik. (shepherd's) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i>	0.4	13
85	Biophysics of the Vadose Zone: From Reality to Model Systems and Back Again. <i>Vadose Zone Journal</i> , 2013, 12, 1-17.	2.2	47
86	Pore shape and organic compounds drive major changes in the hydrological characteristics of agricultural soils. <i>European Journal of Soil Science</i> , 2013, 64, 334-344.	3.9	14
87	Soil strength and macropore volume limit root elongation rates in many UK agricultural soils. <i>Annals of Botany</i> , 2012, 110, 259-270.	2.9	138
88	Centrifuge modelling of soil slopes containing model plant roots. <i>Canadian Geotechnical Journal</i> , 2012, 49, 1-17.	2.8	40
89	Soil tillage effects on the efficacy of cultivars and their mixtures in winter barley. <i>Field Crops Research</i> , 2012, 128, 91-100.	5.1	34
90	Soil Physical Degradation: Threats and Opportunities to Food Security. <i>Issues in Environmental Science and Technology</i> , 2012, , 198-226.	0.4	6

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91	Root elongation, water stress, and mechanical impedance: a review of limiting stresses and beneficial root tip traits. <i>Journal of Experimental Botany</i> , 2011, 62, 59-68.	4.8	766
92	Physical response of rigid and non-rigid soils to analogues of biological exudates. <i>European Journal of Soil Science</i> , 2011, 62, 676-684.	3.9	46
93	Division or addition? New breeds of interdisciplinary research involving hydrology (Comments to the) <i>Tj ETQq1 1 0.784314 rgBT /Ove</i>	5.4	1
94	Impact of soil tillage on the robustness of the genetic component of variation in phosphorus (P) use efficiency in barley ( <i>Hordeum vulgare</i> L.). <i>Plant and Soil</i> , 2011, 339, 113-123.	3.7	42
95	Distribution of soil carbon and microbial biomass in arable soils under different tillage regimes. <i>Plant and Soil</i> , 2011, 338, 17-25.	3.7	72
96	Factors controlling the spatial patterns of soil moisture in a grazed semi-arid steppe investigated by multivariate geostatistics. <i>Ecohydrology</i> , 2011, 4, 36-48.	2.4	68
97	Hydrophobicity of Soil. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 378-384.	0.1	3
98	Arable plant communities as indicators of farming practice. <i>Agriculture, Ecosystems and Environment</i> , 2010, 138, 17-26.	5.3	100
99	Does microbial habitat or community structure drive the functional stability of microbes to stresses following re-vegetation of a severely degraded soil?. <i>Soil Biology and Biochemistry</i> , 2010, 42, 850-859.	8.8	60
100	Vegetation impact on the hydrology of an aeolian sandy soil in a continental climate. <i>Ecohydrology</i> , 2010, 3, 413-420.	2.4	36
101	Biohydrology: coupling biology and soil hydrology from pores to landscapes. <i>Ecohydrology</i> , 2010, 3, 379-381.	2.4	10
102	Planting density influence on fibrous root reinforcement of soils. <i>Ecological Engineering</i> , 2010, 36, 276-284.	3.6	156
103	Below-ground herbivory and root toughness: a potential model system using lignin-modified tobacco. <i>Physiological Entomology</i> , 2010, 35, 186-191.	1.5	41
104	Centrifuge modelling of soil slopes reinforced with vegetation. <i>Canadian Geotechnical Journal</i> , 2010, 47, 1415-1430.	2.8	51
105	Resistance of simple plant root systems to uplift loads. <i>Canadian Geotechnical Journal</i> , 2010, 47, 78-95.	2.8	36
106	Do different methods for measuring the hydrophobicity of soil aggregates give the same trends in soil amended with residue?. <i>Geoderma</i> , 2010, 159, 221-227.	5.1	35
107	Integrating soil quality changes to arable agricultural systems following organic matter addition, or adoption of a ley-arable rotation. <i>Applied Soil Ecology</i> , 2010, 46, 43-53.	4.3	76
108	Characterization of a novel air-liquid interface biofilm of <i>Pseudomonas fluorescens</i> SBW25. <i>Microbiology (United Kingdom)</i> , 2009, 155, 1397-1406.	1.8	86

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109	Earthworms bring compacted and loose soil to a similar mechanical state. <i>Soil Biology and Biochemistry</i> , 2009, 41, 656-658.	8.8	22
110	Evaluating soil stabilisation by biological processes using step-wise aggregate fractionation. <i>Soil and Tillage Research</i> , 2009, 102, 209-215.	5.6	17
111	Disentangling the impact of AM fungi versus roots on soil structure and water transport. <i>Plant and Soil</i> , 2009, 314, 183-196.	3.7	159
112	Rheological stabilization of wet soils by model root and fungal exudates depends on clay mineralogy. <i>European Journal of Soil Science</i> , 2009, 60, 525-538.	3.9	55
113	Potential of multi-objective models for risk-based mapping of the resilience characteristics of soils: demonstration at a national level. <i>Soil Use and Management</i> , 2009, 25, 66-77.	4.9	13
114	Simulation of phytomass productivity based on the optimum temperature for plant growth in a cold climate. <i>Biologia (Poland)</i> , 2009, 64, 615-619.	1.5	2
115	Rise in CO <sub>2</sub> affects soil water transport through repellency. <i>Biologia (Poland)</i> , 2009, 64, 532-535.	1.5	5
116	Foreword to the thematic issue on Biohydrology. <i>Biologia (Poland)</i> , 2009, 64, 415-418.	1.5	2
117	Deep rooting and drought screening of cereal crops: A novel field-based method and its application. <i>Field Crops Research</i> , 2009, 112, 165-171.	5.1	85
118	The effect of long-term soil management on the physical and biological resilience of a range of arable and grassland soils in England. <i>Geoderma</i> , 2009, 153, 172-185.	5.1	108
119	Mechanical Reinforcement of Soil by Willow Roots: Impacts of Root Properties and Root Failure Mechanism. <i>Soil Science Society of America Journal</i> , 2009, 73, 1276-1285.	2.2	128
120	Centrifuge modelling of climatic effects on clay embankments. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 2009, 162, 91-100.	0.7	23
121	Functional resilience of soil microbial communities depends on both soil structure and microbial community composition. <i>Biology and Fertility of Soils</i> , 2008, 44, 745-754.	4.3	80
122	Investigating the effects of anaerobic and aerobic post-treatment on quality and stability of organic fraction of municipal solid waste as soil amendment. <i>Bioresource Technology</i> , 2008, 99, 8631-8636.	9.6	110
123	Increase in the fracture toughness and bond energy of clay by a root exudate. <i>European Journal of Soil Science</i> , 2008, 59, 855-862.	3.9	33
124	Impact of hydraulic suction history on crack growth mechanics in soil. <i>Water Resources Research</i> , 2008, 44, .	4.2	30
125	Comparing capillary rise contact angles of soil aggregates and homogenized soil. <i>Geoderma</i> , 2008, 146, 336-343.	5.1	29
126	A brief overview of the causes, impacts and amelioration of soil water repellency - a review. <i>Soil and Water Research</i> , 2008, 3, S21-S29.	1.7	72



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127	Restoration of Soil Physical and Biological Stability Are Not Coupled in Response to Plants and Earthworms. <i>Ecological Restoration</i> , 2008, 26, 102-104.	0.5	10
128	Water repellency and distribution of hydrophilic and hydrophobic compounds in soil aggregates from different tillage systems. <i>Geoderma</i> , 2007, 140, 147-155.	5.1	86
129	The biological and physical stability and resilience of a selection of Scottish soils to stresses. <i>European Journal of Soil Science</i> , 2007, 58, 811-821.	3.9	79
130	Material stiffness, branching pattern and soil matric potential affect the pullout resistance of model root systems. <i>European Journal of Soil Science</i> , 2007, 58, 1471-1481.	3.9	110
131	Physical resilience of soil to field compaction and the interactions with plant growth and microbial community structure. <i>European Journal of Soil Science</i> , 2007, 58, 1221-1232.	3.9	84
132	Field measurement of soil water repellency and its impact on water flow under different vegetation. <i>Biologia (Poland)</i> , 2007, 62, 537-541.	1.5	82
133	Early changes in root characteristics of maize ( <i>Zea mays</i> ) following seed inoculation with the PGPR <i>Azospirillum lipoferum</i> CRT1. <i>Plant and Soil</i> , 2007, 291, 109-118.	3.7	69
134	Novel biomechanical analysis of plant roots. , 2007, , 13-20.		4
135	Mechanics of root-pullout from soil: A novel image and stress analysis procedure. , 2007, , 213-221.		12
136	Impact of fungal and bacterial biocides on microbial induced water repellency in arable soil. <i>Geoderma</i> , 2006, 135, 72-80.	5.1	66
137	Biomechanics of Plant Roots: estimating Localised Deformation with Particle Image Velocimetry. <i>Biosystems Engineering</i> , 2006, 94, 119-132.	4.3	19
138	Calculation of the compression index and precompression stress from soil compression test data. <i>Soil and Tillage Research</i> , 2006, 89, 45-57.	5.6	113
139	Impact of basidiomycete fungi on the wettability of soil contaminated with a hydrophobic polycyclic aromatic hydrocarbon. <i>Biologia (Poland)</i> , 2006, 61, S334-S338.	1.5	17
140	Three-dimensional Microorganization of the Soilâ€™Rootâ€™Microbe System. <i>Microbial Ecology</i> , 2006, 52, 151-158.	2.8	227
141	Describing soil crack formation using elastic-plastic fracture mechanics. <i>European Journal of Soil Science</i> , 2005, 56, 31-38.	3.9	94
142	Biological and physical resilience of soil amended with heavy metal-contaminated sewage sludge. <i>European Journal of Soil Science</i> , 2005, 56, 197-206.	3.9	55
143	Mechanical Resilience of Degraded Soil Amended with Organic Matter. <i>Soil Science Society of America Journal</i> , 2005, 69, 864-871.	2.2	104
144	Eluviation of dissolved organic carbon under wetting and drying and its influence on water infiltration in degraded soils restored with vegetation. <i>European Journal of Soil Science</i> , 2004, 55, 725-737.	3.9	20

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145	Does the presence of glomalin relate to reduced water infiltration through hydrophobicity?. Canadian Journal of Soil Science, 2004, 84, 365-372.	1.2	29
146	Millimeter-scale Spatial Variability in Soil Water Sorptivity. Soil Science Society of America Journal, 2004, 68, 352-358.	2.2	96
147	Are the links between soil aggregate size class, soil organic matter and respiration rate artefacts of the fractionation procedure?. Soil Biology and Biochemistry, 2003, 35, 435-444.	8.8	74
148	Plant influence on rhizosphere hydraulic properties: direct measurements using a miniaturized infiltrometer. New Phytologist, 2003, 157, 597-603.	7.3	108
149	Influence of types of restorative vegetation on the wetting properties of aggregates in a severely degraded clayey Ultisol in subtropical China. Geoderma, 2003, 115, 313-324.	5.1	40
150	A sterile environment for growing, and monitoring, micro-organisms under a range of soil matric potentials. Soil Biology and Biochemistry, 2001, 33, 689-691.	8.8	5
151	A simple fracture mechanics approach for assessing ductile crack growth in soil. Soil Science Society of America Journal, 2001, 65, 1083-1088.	2.2	40
152	Subcritical Water Repellency of Aggregates from a Range of Soil Management Practices. Soil Science Society of America Journal, 2001, 65, 184-190.	2.2	172
153	Development of $^{15}\text{N}$ stratification of $\text{NO}_3^-$ in soil profiles. Rapid Communications in Mass Spectrometry, 2001, 15, 1274-1278.	1.5	11
154	Root- and microbial-derived mucilages affect soil structure and water transport. European Journal of Soil Science, 2000, 51, 435-443.	3.9	340
155	Changes to water repellence of soil caused by the growth of white-rot fungi: studies using a novel microcosm system. FEMS Microbiology Letters, 2000, 184, 73-77.	1.8	50
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