Paul D Hallett

List of Publications by Year
in descending order

164	9,632	36271 51	42364 92
papers	citations	h-index	g-index

183	183	183	9097
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Changes in Soil Properties Following the Establishment of Exclosures in Ethiopia: A Meta-Analysis. Frontiers in Ecology and Evolution, 2022, 10, .	1.1	4
2	Organic manure and lime change water vapour sorption of a red soil by altering water repellency and specific surface area. European Journal of Soil Science, 2022, 73, .	1.8	5
3	Building soil sustainability from rootâ€“soil interface traits. Trends in Plant Science, 2022, 27, 688-698.	4.3	24
4	Impact of root hairs on microscale soil physical properties in the field. Plant and Soil, 2022, 476, 491-509.	1.8	6
5	Dual-platform micromechanical characterization of soils: Oscillation shear rheometry and spherical indentation. Soil and Tillage Research, 2022, 223, 105467.	2.6	0
6	Significance of root hairs for plant performance under contrasting field conditions and water deficit. Annals of Botany, 2021, 128, 1-16.	1.4	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. European Journal of Soil Science, 2021, 72, 125-140.	1.8	2
8	Variable impacts of reduced and zero tillage on soil carbon storage across 4â€“10 years of UK field experiments. Journal of Soils and Sediments, 2021, 21, 890-904.	1.5	8
9	Analysing and simulating spatial patterns of crop yield in Guizhou Province based on artificial neural networks. Progress in Physical Geography, 2021, 45, 33-52.	1.4	14
10	Role of microbial communities in conferring resistance and resilience of soil carbon and nitrogen cycling following contrasting stresses. European Journal of Soil Biology, 2021, 104, 103308.	1.4	5
11	Contrasting ability of deep and shallow rooting rice genotypes to grow through plough pans containing simulated biopores and cracks. Plant and Soil, 2021, 467, 515-530.	1.8	11
12	Importance of short-term temporal variability in soil physical properties for soil water modelling under different tillage practices. Soil and Tillage Research, 2021, 213, 105132.	2.6	11
13	Retention and release of nutrients from polyhalite to soil. Soil Use and Management, 2020, 36, 117-122.	2.6	4
14	Significance of root hairs at the field scale â€“ modelling root water and phosphorus uptake under different field conditions. Plant and Soil, 2020, 447, 281-304.	1.8	42
15	Deep Nitrate Accumulation in a Highly Weathered Subtropical Critical Zone Depends on the Regolith Structure and Planting Year. Environmental Science & Technology, 2020, 54, 13739-13747.	4.6	40
16	A framework for modelling soil structure dynamics induced by biological activity. Global Change Biology, 2020, 26, 5382-5403.	4.2	75
17	A systems model describing the impact of organic resource use on farming households in low to middle income countries. Agricultural Systems, 2020, 184, 102895.	3.2	2
18	Variable responses of maize root architecture in elite cultivars due to soil compaction and moisture. Plant and Soil, 2020, 455, 79-91.	1.8	22

#	Article	IF	Citations
19	Landmark Papers: No. 9 Jarvis, N.J. 2007. A review of nonâ€equilibrium water flow and solute transport in soil macropores: Principles, controlling factors and consequences for water quality. European Journal of Soil Science, 58, 523â€“546. European Journal of Soil Science, 2020, 71, 308-315.	1.8	1
20	Brachiaria species influence nitrate transport in soil by modifying soil structure with their root system. Scientific Reports, 2020, 10, 5072.	1.6	53
21	Physiological and yield response in maize in cohesive tropical soil is improved through the addition of gypsum and leguminous mulch. Journal of Agricultural Science, 2020, 158, 57-64.	0.6	1
22	Paleotopography continues to drive surface to deep-layer interactions in a subtropical Critical Zone Observatory. Journal of Applied Geophysics, 2020, 175, 103987.	0.9	4
23	Preface to the special issue on biohydrology dedicated to the memory of Dr. Louis W. Dekker. Journal of Hydrology and Hydromechanics, 2020, 68, 303-305.	0.7	0
24	Root moisture content influence on root tensile tests of herbaceous plants. Catena, 2019, 172, 140-147.	2.2	39
25	Transport, retention, and release of Escherichia coli and Rhodococcus erythropolis through dry natural soils as affected by water repellency. Science of the Total Environment, 2019, 694, 133666.	3.9	17
26	A Simple Modelling Framework for Shallow Subsurface Water Storage and Flow. Water (Switzerland), 2019, 11, 1725.	1.2	1
27	Soil stabilisation by water repellency under no-till management for soils with contrasting mineralogy and carbon quality. Geoderma, 2019, 355, 113902.	2.3	35
28	Imparting water repellency in completely decomposed granite with Tung oil. Journal of Cleaner Production, 2019, 230, 1316-1328.	4.6	20
29	Rare earth oxides for labelling soil aggregate turnover: Impacts of soil properties, labelling method and aggregate structure. Geoderma, 2019, 351, 36-48.	2.3	17
30	Impact of soil puddling intensity on the root system architecture of rice (Oryza sativa L.) seedlings. Soil and Tillage Research, 2019, 193, 1-7.	2.6	21
31	Resilience of soil functions to transient and persistent stresses is improved more by residue incorporation than the activity of earthworms. Applied Soil Ecology, 2019, 139, 10-14.	2.1	3
32	Residues with varying decomposability interact differently with seed or root exudate compounds to affect the biophysical behaviour of soil. Geoderma, 2019, 343, 50-59.	2.3	18
33	Surface tension, rheology and hydrophobicity of rhizodeposits and seed mucilage influence soil water retention and hysteresis. Plant and Soil, 2019, 437, 65-81.	1.8	53
34	Surface Tension of Aqueous Solutions of Small-Chain Amino and Organic Acids. Journal of Chemical & Engineering Data, 2019, 64, 5049-5056.	1.0	16
35	Accumulation of nitrate and dissolved organic nitrogen at depth in a red soil Critical Zone. Geoderma, 2019, 337, 1175-1185.	2.3	45
36	Temporal dynamics and vertical distribution of newly-derived carbon from a C3/C4 conversion in an Ultisol after 30-yr fertilization. Geoderma, 2019, 337, 1077-1085.	2.3	12

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37	Imaging microstructure of the barley rhizosphere: particle packing and root hair influences. New Phytologist, 2019, 221, 1878-1889.	3.5	51
38	The role of sampling strategy on apparent temporal stability of soil moisture under subtropical hydroclimatic conditions. Journal of Hydrology and Hydromechanics, 2019, 67, 260-270.	0.7	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. Ecohydrology, 2018, 11, e1949.	1.1	25
40	Biohydrologyâ€"Walking on drylands and swimming through pores. Ecohydrology, 2018, 11, e2040.	1.1	0
41	The effect of root exudates on rhizosphere water dynamics. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20180149.	1.0	8
42	Rhizosphereâ€Scale Quantification of Hydraulic and Mechanical Properties of Soil Impacted by Root and Seed Exudates. Vadose Zone Journal, 2018, 17, 1-12.	1.3	41
43	Interaction between contrasting rice genotypes and soil physical conditions induced by hydraulic stresses typical of alternate wetting and drying irrigation of soil. Plant and Soil, 2018, 430, 233-243.	1.8	27
44	Extent and persistence of soil water repellency induced by pines in different geographic regions. Journal of Hydrology and Hydromechanics, 2018, 66, 360-368.	0.7	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. Permafrost and Periglacial Processes, 2017, 28, 314-321.	1.5	2
47	Combined turnover of carbon and soil aggregates using rare earth oxides and isotopically labelled carbon as tracers. Soil Biology and Biochemistry, 2017, 109, 81-94.	4.2	81
48	Mapping and expression of genes associated with raspberry fruit ripening and softening. Theoretical and Applied Genetics, 2017, 130, 557-572.	1.8	29
49	Scaling of the reinforcement of soil slopes by living plants in a geotechnical centrifuge. Ecological Engineering, 2017, 109, 207-227.	1.6	70
50	Highâ€resolution synchrotron imaging shows that root hairs influence rhizosphere soil structure formation. New Phytologist, 2017, 216, 124-135.	3.5	116
51	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.	1.0	17
52	Plant exudates may stabilize or weaken soil depending on species, origin and time. European Journal of Soil Science, 2017, 68, 806-816.	1.8	144
53	Physical protection by soil aggregates stabilizes soil organic carbon under simulated N deposition in a subtropical forest of China. Geoderma, 2017, 285, 323-332.	2.3	80
54	Plant exudates improve the mechanical conditions for root penetration through compacted soils. Plant and Soil, 2017, 421, 19-30.	1.8	49

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55	Modeling Soil Processes: Review, Key Challenges, and New Perspectives. Vadose Zone Journal, 2016, 15, 1-57.	1.3	445
56	Residue-C effects on denitrification vary with soil depth. Soil Biology and Biochemistry, 2016, 103, 365-375.	4.2	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. Science of the Total Environment, 2016, 569-570, 1369-1379.	3.9	38
58	Le Bissonnais, Y. 1996. Aggregate stability and assessment of crustability and erodibility: 1. theory and methodology. European Journal of Soil Science, 47, 425â€“437.. European Journal of Soil Science, 2016, 67, 5-10.	1.8	4
59	Soil water dynamics and availability for citrus and peanut along a hillslope at the Sunjia Red Soil Critical Zone Observatory (CZO). Soil and Tillage Research, 2016, 163, 110-118.	2.6	21
60	Thematic Issue on the Hydrological Effects of the Vegetation-Soil Complex. Journal of Hydrology and Hydromechanics, 2016, 64, 97-99.	0.7	0
61	Reinforcement of Soil by Fibrous Roots. Advances in Agricultural Systems Modeling, 2015, , 197-228.	0.3	2
62	Probing soil physical and biological resilience data from a broad sampling of arable farms in Scotland. Soil Use and Management, 2015, 31, 491-503.	2.6	4
63	Sustainable use of organic resources for bioenergy, food and water provision in rural Sub-Saharan Africa. Renewable and Sustainable Energy Reviews, 2015, 50, 903-917.	8.2	44
64	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.	1.8	35
65	Improving intercropping: a synthesis of research in agronomy, plant physiology and ecology. New Phytologist, 2015, 206, 107-117.	3.5	805
66	Soil structure and its functions in ecosystems: Phase matter & scale matter. Soil and Tillage Research, 2015, 146, 1-3.	2.6	53
67	The effect of natural seed coatings of Capsella bursa-pastoris L. Medik. (shepherdâ€™s purse) on soil-water retention, stability and hydraulic conductivity. Plant and Soil, 2015, 387, 167-176.	1.8	25
68	Mitigating arable soil compaction: A review and analysis of available cost and benefit data. Soil and Tillage Research, 2015, 146, 10-25.	2.6	112
69	An automated microinfiltrometer to measure small-scale soil water infiltration properties. Journal of Hydrology and Hydromechanics, 2014, 62, 248-252.	0.7	8
70	Microbial properties and nitrogen contents of arable soils under different tillage regimes. Soil Use and Management, 2014, 30, 152-159.	2.6	15
71	Seasonal nitrous oxide emissions from field soils under reduced tillage, compost application or organic farming. Agriculture, Ecosystems and Environment, 2014, 189, 171-180.	2.5	41
72	Improved soil fertility from compost amendment increases root growth and reinforcement of surface soil on slopes. Ecological Engineering, 2014, 71, 458-465.	1.6	71

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73	Field Phenotyping and Long-Term Platforms to Characterise How Crop Genotypes Interact with Soil Processes and the Environment. Agronomy, 2014, 4, 242-278.	1.3	16
74	Tensile Strainâ€Rate Dependency of Pore Water Pressure and Failure Strength of Soil. Vadose Zone Journal, 2014, 13, 1-6.	1.3	3
75	Biomechanics of nodal, seminal and lateral roots of barley: effects of diameter, waterlogging and mechanical impedance. Plant and Soil, 2013, 370, 407-418.	1.8	57
76	Priming of soil organic matter mineralisation is intrinsically insensitive to temperature. Soil Biology and Biochemistry, 2013, 66, 20-28.	4.2	58
77	How do enzymes catalysing soil nitrogen transformations respond to changing temperatures?. Biology and Fertility of Soils, 2013, 49, 99-103.	2.3	25
78	Algae influence the hydrophysical parameters of a sandy soil. Catena, 2013, 108, 58-68.	2.2	93
79	Root hairs improve root penetration, rootâ€“soil contact, and phosphorus acquisition in soils of different strength. Journal of Experimental Botany, 2013, 64, 3711-3721.	2.4	215
80	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.	2.6	50
81	Matching roots to their environment. Annals of Botany, 2013, 112, 207-222.	1.4	247
82	Adapting crops and cropping systems to future climates to ensure food security: The role of crop modelling. Global Food Security, 2013, 2, 24-28.	4.0	70
83	Soil physics: new approaches and emerging challenges. European Journal of Soil Science, 2013, 64, 277-278.	1.8	4
84	The rheological properties of the seed coat mucilage of Capsella bursa-pastoris L. Medik. (shepherd's) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.2	13
85	Biophysics of the Vadose Zone: From Reality to Model Systems and Back Again. Vadose Zone Journal, 2013, 12, 1-17.	1.3	47
86	Pore shape and organic compounds drive major changes in the hydrological characteristics of agricultural soils. European Journal of Soil Science, 2013, 64, 334-344.	1.8	14
87	Soil strength and macropore volume limit root elongation rates in many UK agricultural soils. Annals of Botany, 2012, 110, 259-270.	1.4	138
88	Centrifuge modelling of soil slopes containing model plant roots. Canadian Geotechnical Journal, 2012, 49, 1-17.	1.4	40
89	Soil tillage effects on the efficacy of cultivars and their mixtures in winter barley. Field Crops Research, 2012, 128, 91-100.	2.3	34
90	Soil Physical Degradation: Threats and Opportunities to Food Security. Issues in Environmental Science and Technology, 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. Journal of Experimental Botany, 2011, 62, 59-68.	2.4	766
92	Physical response of rigid and non-rigid soils to analogues of biological exudates. European Journal of Soil Science, 2011, 62, 676-684.	1.8	46
93	Division or addition? New breeds of interdisciplinary research involving hydrology (Comments to the) Tj ETQq1 1 0.784314 rgBT /Ove	2.3	1
94	Impact of soil tillage on the robustness of the genetic component of variation in phosphorus (P) use efficiency in barley (Hordeum vulgare L.). Plant and Soil, 2011, 339, 113-123.	1.8	42
95	Distribution of soil carbon and microbial biomass in arable soils under different tillage regimes. Plant and Soil, 2011, 338, 17-25.	1.8	72
96	Factors controlling the spatial patterns of soil moisture in a grazed semiâ€arid steppe investigated by multivariate geostatistics. Ecohydrology, 2011, 4, 36-48.	1.1	68
97	Hydrophobicity of Soil. Encyclopedia of Earth Sciences Series, 2011, , 378-384.	0.1	3
98	Arable plant communities as indicators of farming practice. Agriculture, Ecosystems and Environment, 2010, 138, 17-26.	2.5	100
99	Does microbial habitat or community structure drive the functional stability of microbes to stresses following re-vegetation of a severely degraded soil?. Soil Biology and Biochemistry, 2010, 42, 850-859.	4.2	60
100	Vegetation impact on the hydrology of an aeolian sandy soil in a continental climate. Ecohydrology, 2010, 3, 413-420.	1.1	36
101	Biohydrology: coupling biology and soil hydrology from pores to landscapes. Ecohydrology, 2010, 3, 379-381.	1.1	10
102	Planting density influence on fibrous root reinforcement of soils. Ecological Engineering, 2010, 36, 276-284.	1.6	156
103	Below-ground herbivory and root toughness: a potential model system using lignin-modified tobacco. Physiological Entomology, 2010, 35, 186-191.	0.6	41
104	Centrifuge modelling of soil slopes reinforced with vegetation. Canadian Geotechnical Journal, 2010, 47, 1415-1430.	1.4	51
105	Resistance of simple plant root systems to uplift loads. Canadian Geotechnical Journal, 2010, 47, 78-95.	1.4	36
106	Do different methods for measuring the hydrophobicity of soil aggregates give the same trends in soil amended with residue?. Geoderma, 2010, 159, 221-227.	2.3	35
107	Integrating soil quality changes to arable agricultural systems following organic matter addition, or adoption of a ley-arable rotation. Applied Soil Ecology, 2010, 46, 43-53.	2.1	76
108	Characterization of a novel airâ€“liquid interface biofilm of Pseudomonas fluorescens SBW25. Microbiology (United Kingdom), 2009, 155, 1397-1406.	0.7	86

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109	Earthworms bring compacted and loose soil to a similar mechanical state. Soil Biology and Biochemistry, 2009, 41, 656-658.	4.2	22
110	Evaluating soil stabilisation by biological processes using step-wise aggregate fractionation. Soil and Tillage Research, 2009, 102, 209-215.	2.6	17
111	Disentangling the impact of AM fungi versus roots on soil structure and water transport. Plant and Soil, 2009, 314, 183-196.	1.8	159
112	Rheological stabilization of wet soils by model root and fungal exudates depends on clay mineralogy. European Journal of Soil Science, 2009, 60, 525-538.	1.8	55
113	Potential of multiâ€objective models for riskâ€based mapping of the resilience characteristics of soils: demonstration at a national level. Soil Use and Management, 2009, 25, 66-77.	2.6	13
114	Simulation of phytomass productivity based on the optimum temperature for plant growth in a cold climate. Biologia (Poland), 2009, 64, 615-619.	0.8	2
115	Rise in CO2 affects soil water transport through repellency. Biologia (Poland), 2009, 64, 532-535.	0.8	5
116	Foreword to the thematic issue on Biohydrology. Biologia (Poland), 2009, 64, 415-418.	0.8	2
117	Deep rooting and drought screening of cereal crops: A novel field-based method and its application. Field Crops Research, 2009, 112, 165-171.	2.3	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. Geoderma, 2009, 153, 172-185.	2.3	108
119	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.	1.2	128
120	Centrifuge modelling of climatic effects on clay embankments. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2009, 162, 91-100.	0.4	23
121	Functional resilience of soil microbial communities depends on both soil structure and microbial community composition. Biology and Fertility of Soils, 2008, 44, 745-754.	2.3	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. Bioresource Technology, 2008, 99, 8631-8636.	4.8	110
123	Increase in the fracture toughness and bond energy of clay by a root exudate. European Journal of Soil Science, 2008, 59, 855-862.	1.8	33
124	Impact of hydraulic suction history on crack growth mechanics in soil. Water Resources Research, 2008, 44, .	1.7	30
125	Comparing capillary rise contact angles of soil aggregates and homogenized soil. Geoderma, 2008, 146, 336-343.	2.3	29
126	A brief overview of the causes, impacts and amelioration of soil water repellency - a review. Soil and Water Research, 2008, 3, S21-S29.	0.7	72

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127	Restoration of Soil Physical and Biological Stability Are Not Coupled in Response to Plants and Earthworms. Ecological Restoration, 2008, 26, 102-104.	0.6	10
128	Water repellency and distribution of hydrophilic and hydrophobic compounds in soil aggregates from different tillage systems. Geoderma, 2007, 140, 147-155.	2.3	86
129	The biological and physical stability and resilience of a selection of Scottish soils to stresses. European Journal of Soil Science, 2007, 58, 811-821.	1.8	79
130	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.	1.8	110
131	Physical resilience of soil to field compaction and the interactions with plant growth and microbial community structure. European Journal of Soil Science, 2007, 58, 1221-1232.	1.8	84
132	Field measurement of soil water repellency and its impact on water flow under different vegetation. Biologia (Poland), 2007, 62, 537-541.	0.8	82
133	Early changes in root characteristics of maize (Zea mays) following seed inoculation with the PGPR Azospirillum lipoferum CRT1. Plant and Soil, 2007, 291, 109-118.	1.8	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. Geoderma, 2006, 135, 72-80.	2.3	66
137	Biomechanics of Plant Roots: estimating Localised Deformation with Particle Image Velocimetry. Biosystems Engineering, 2006, 94, 119-132.	1.9	19
138	Calculation of the compression index and precompression stress from soil compression test data. Soil and Tillage Research, 2006, 89, 45-57.	2.6	113
139	Impact of basidiomycete fungi on the wettability of soil contaminated with a hydrophobic polycyclic aromatic hydrocarbon. Biologia (Poland), 2006, 61, S334-S338.	0.8	17
140	Three-dimensional Microorganization of the Soilâ€“Rootâ€“Microbe System. Microbial Ecology, 2006, 52, 151-158.	1.4	227
141	Describing soil crack formation using elastic-plastic fracture mechanics. European Journal of Soil Science, 2005, 56, 31-38.	1.8	94
142	Biological and physical resilience of soil amended with heavy metal-contaminated sewage sludge. European Journal of Soil Science, 2005, 56, 197-206.	1.8	55
143	Mechanical Resilience of Degraded Soil Amended with Organic Matter. Soil Science Society of America Journal, 2005, 69, 864-871.	1.2	104
144	Eluviation of dissolved organic carbon under wetting and drying and its influence on water infiltration in degraded soils restored with vegetation. European Journal of Soil Science, 2004, 55, 725-737.	1.8	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.	0.5	29
146	Millimeterâ€Scale Spatial Variability in Soil Water Sorptivity. Soil Science Society of America Journal, 2004, 68, 352-358.	1.2	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.	4.2	74
148	Plant influence on rhizosphere hydraulic properties: direct measurements using a miniaturized infiltrometer. New Phytologist, 2003, 157, 597-603.	3.5	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.	2.3	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.	4.2	5
151	A simple fracture mechanics approach for assessing ductile crack growth in soil. Soil Science Society of America Journal, 2001, 65, 1083-1088.	1.2	40
152	Subcritical Water Repellency of Aggregates from a Range of Soil Management Practices. Soil Science Society of America Journal, 2001, 65, 184-190.	1.2	172
153	Development of?15N stratification of NO3? in soil profiles. Rapid Communications in Mass Spectrometry, 2001, 15, 1274-1278.	0.7	11
154	Root- and microbial-derived mucilages affect soil structure and water transport. European Journal of Soil Science, 2000, 51, 435-443.	1.8	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.	0.7	50
156	Changes to water repellence of soil aggregates caused by substrateâ€induced microbial activity. European Journal of Soil Science, 1999, 50, 35-40.	1.8	252
157	Root:soil adhesion in the maize rhizosphere: the rheological approach. Plant and Soil, 1999, 211, 69-86.	1.8	38
158	Effects of Mechanical Stresses and Strains on Soil Respiration. , 1999, , 305-316.		5
159	Desiccation of a sensitive clay: application of the model CRACK: Discussion. Canadian Geotechnical Journal, 1998, 35, 1109-1110.	1.4	4
160	The application of fracture mechanics to crack propagation in dry soil. European Journal of Soil Science, 1995, 46, 591-599.	1.8	49
161	Identification of pre-existing cracks on soil fracture surfaces using dye. Soil and Tillage Research, 1995, 33, 163-184.	2.6	36
162	Rhizosphere Engineering by Plants: Quantifying Soil-Root Interactions. Advances in Agricultural Systems Modeling, 0, , 1-30.	0.3	6

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163	Mathematical Modeling of Greenhouse Gas Emissions from Agriculture for Different End Users. Advances in Agricultural Systems Modeling, 0, , 197-227.	0.3	4
164	A History of Understanding Crack Propagation and the Tensile Strength of Soil. Advances in Agricultural Systems Modeling, 0, , 93-119.	0.3	4