Brent Clothier

List of Publications by Year in descending order

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227 papers

9,098 citations

52 h-index 53230

g-index

237 all docs

237 docs citations

times ranked

237

7585 citing authors

#	Article	IF	CITATIONS
1	Does biochar influence soil physical properties and soil water availability?. Plant and Soil, 2014, 376, 347-361.	3.7	347
2	Natural and induced cadmium-accumulation in poplar and willow: Implications for phytoremediation. Plant and Soil, 2000, 227, 301-306.	3.7	282
3	Theory and Practical Application of Heat Pulse to Measure Sap Flow. Agronomy Journal, 2003, 95, 1371-1379.	1.8	262
4	Water Use of Kiwifruit Vines and Apple Trees by the Heat-Pulse Technique. Journal of Experimental Botany, 1988, 39, 115-123.	4.8	222
5	Water repellency and its measurement by using intrinsic sorptivity. Soil Research, 1989, 27, 637.	1.1	208
6	Estimation of soil heat flux from net radiation during the growth of alfalfa. Agricultural and Forest Meteorology, 1986, 37, 319-329.	4.8	184
7	Measurement of Sorptivity and Soil Water Diffusivity in the Field. Soil Science Society of America Journal, 1981, 45, 241-245.	2.2	179
8	Heat-pulse measurements of sap flow in olives for automating irrigation: tests, root flow and diagnostics of water stress. Agricultural Water Management, 2001, 51, 99-123.	5.6	169
9	Arsenic hyperaccumulation by aquatic macrophytes in the Taupo Volcanic Zone, New Zealand. Environmental and Experimental Botany, 2006, 58, 206-215.	4.2	169
10	Phytoextraction: an assessment of biogeochemical and economic viability. Plant and Soil, 2003, 249, 117-125.	3.7	158
11	Preferential flow and transport in soil: progress and prognosis. European Journal of Soil Science, 2008, 59, 2-13.	3.9	145
12	Measuring unsaturated sorptivity and hydraulic conductivity using multiple disc permeameters. Journal of Soil Science, 1989, 40, 563-568.	1.2	143
13	Root water uptake by kiwifruit vines following partial wetting of the root zone. Plant and Soil, 1995, 173, 317-328.	3.7	142
14	THE CONSTANT HEAD WELL PERMEAMETER. Soil Science, 1985, 139, 172-180.	0.9	141
15	ROOTS: THE BIG MOVERS OF WATER AND CHEMICAL IN SOIL. Soil Science, 1997, 162, 534-543.	0.9	141
16	Transpiration and root water uptake by olive trees. Plant and Soil, 1996, 184, 85-96.	3.7	134
17	A COMPARISON OF THREE FIELD METHODS FOR MEASURING SATURATED HYDRAULIC CONDUCTIVITY. Canadian Journal of Soil Science, 1985, 65, 563-573.	1.2	131
18	Root Methods., 2000,,.		127

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19	Deficit irrigation and partial rootzone drying maintain fruit dry mass and enhance fruit quality in †Petopride†processing tomato (Lycopersicon esculentum, Mill.). Scientia Horticulturae, 2003, 98, 505-510.	3.6	122
20	Rootzone processes and the efficient use of irrigation water. Agricultural Water Management, 1994, 25, 1-12.	5.6	121
21	The root zone dynamics of water uptake by a mature apple tree. Plant and Soil, 1998, 206, 61-77.	3.7	121
22	The water footprint of hydroelectricity: a methodological comparison from a case study in New Zealand. Journal of Cleaner Production, 2011, 19, 1582-1589.	9.3	109
23	Soil Amendments Affecting Nickel and Cobalt Uptake by Berkheya coddii: Potential Use for Phytomining and Phytoremediation. Annals of Botany, 1999, 84, 689-694.	2.9	108
24	Observations of night-time water use in kiwifruit vines and apple trees. Agricultural and Forest Meteorology, 1989, 48, 251-261.	4.8	106
25	The breakdown of water repellency and solute transport through a hydrophobic soil. Journal of Hydrology, 2000, 231-232, 255-264.	5.4	105
26	In Situ Measurement of the Effective Transport Volume for Solute Moving Through Soil. Soil Science Society of America Journal, 1992, 56, 733-736.	2.2	102
27	Phytoremediation: using plants as biopumps to improve degraded environments. Soil Research, 2003, 41, 599.	1.1	101
28	Partial rootzone drying is a feasible option for irrigating processing tomatoes. Agricultural Water Management, 2004, 68, 195-206.	5.6	96
29	Measuring saturated hydraulic conductivity and sorptivity using twin rings. Soil Research, 1982, 20, 295.	1.1	95
30	Root uptake and transpiration: From measurements and models to sustainable irrigation. Agricultural Water Management, 2006, 86, 165-176.	5.6	95
31	Poplar for the phytomanagement of boron contaminated sites. Environmental Pollution, 2007, 150, 225-233.	7. 5	93
32	Quantum dot transport in soil, plants, and insects. Science of the Total Environment, 2011, 409, 3237-3248.	8.0	93
33	On the Value of Soil Resources in the Context of Natural Capital and Ecosystem Service Delivery. Soil Science Society of America Journal, 2014, 78, 685-700.	2.2	91
34	Water footprinting of agricultural products: a hydrological assessment for the water footprint of New Zealand's wines. Journal of Cleaner Production, 2013, 41, 232-243.	9.3	90
35	Characterizing Water and Solute Movement by Time Domain Reflectometry and Disk Permeametry. Soil Science Society of America Journal, 1996, 60, 5-12.	2.2	87
36	Development and analysis of the Soil Water Infiltration Global database. Earth System Science Data, 2018, 10, 1237-1263.	9.9	85

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37	The soil water balance in a gragiaqualf and its effect on pasture growth in central New Zealand. Soil Research, 1979, 17, 455.	1.1	82
38	Seasonal Variation of Hydraulic Properties of Soils Measured using a Tension Disk Infiltrometer. Soil Science Society of America Journal, 1997, 61, 27-32.	2.2	81
39	Sustainable development in small island developing states: Agricultural intensification, economic development, and freshwater resources management on the coral atoll of Tongatapu. Ecological Economics, 2007, 61, 456-468.	5.7	80
40	Responses of â€~Petopride' processing tomato to partial rootzone drying at different phenological stages. Irrigation Science, 2006, 24, 203-210.	2.8	78
41	The impact of soil carbon management on soil macropore structure: a comparison of two apple orchard systems in New Zealand. European Journal of Soil Science, 2009, 60, 945-955.	3.9	76
42	Anion Transport Involving Competitive Adsorption during Transient Water Flow in an Andisol. Soil Science Society of America Journal, 1996, 60, 1368-1375.	2.2	75
43	Surface measurements of the hydraulic properties of a tilled and untilled soil. Soil and Tillage Research, 1990, 15, 359-369.	5.6	72
44	The response of sap flow in apple roots to localised irrigation. Agricultural Water Management, 1997, 33, 63-78.	5.6	70
45	Combining Laboratory and Field Measurements to Define the Hydraulic Properties of Soil. Soil Science Society of America Journal, 1990, 54, 299-304.	2.2	69
46	Title is missing!. Plant and Soil, 2003, 254, 415-423.	3.7	67
47	Solution Scanning as a Key Policy Tool: Identifying Management Interventions to Help Maintain and Enhance Regulating Ecosystem Services. Ecology and Society, 2014, 19, .	2.3	66
48	BURGERS' EQUATION. Soil Science, 1981, 132, 255-261.	0.9	64
49	Effect of water stress on the canopy architecture and spectral indices of irrigated alfalfa. Remote Sensing of Environment, 1989, 29, 251-261.	11.0	61
50	Eco-efficiency as a sustainability measure for kiwifruit production in New Zealand. Journal of Cleaner Production, 2015, 106, 333-342.	9.3	61
51	Modeling Light Interception and Transpiration of Apple Tree Canopies. Agronomy Journal, 2003, 95, 1380-1387.	1.8	56
52	Water footprinting of agricultural products: evaluation of different protocols using a case study of New Zealand wine. Journal of Cleaner Production, 2013, 44, 159-167.	9.3	54
53	Characterising and linking X-ray CT derived macroporosity parameters to infiltration in soils with contrasting structures. Geoderma, 2018, 313, 82-91.	5.1	54
54	Cadmium adsorption by rhizobacteria: implications for New Zealand pastureland. Agriculture, Ecosystems and Environment, 2001, 87, 315-321.	5. 3	53

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55	Infiltration from a surface point source and drip irrigation: 2. An approximate time-dependent solution for wet-front position. Water Resources Research, 1997, 33, 1869-1874.	4.2	52
56	Field measurement of the hydraulic properties of soil. Soil and Tillage Research, 1991, 4, 111-123.	0.4	50
57	The effects of drought on the water use, fruit development and oil yield from young olive trees. Agricultural Water Management, 2009, 96, 1525-1531.	5.6	49
58	Modelling water uptake by a mature apple tree. Soil Research, 2003, 41, 365.	1.1	47
59	The measured mobile-water content of an unsaturated soil as a function of hydraulic regime. Soil Research, 1995, 33, 397.	1.1	45
60	WATER RETENTION IN SOIL UNDERLAIN BY A COARSE-TEXTURED LAYER. Soil Science, 1977, 123, 392-399.	0.9	43
61	Constantâ∈Flux Infiltration from a Hemispherical Cavity. Soil Science Society of America Journal, 1982, 46, 696-700.	2.2	43
62	Cadmium accumulation by willow clones used for soil conservation, stock fodder, and phytoremediation. Soil Research, 2002, 40, 1331.	1.1	42
63	Advances in Soil Ecosystem Services: Concepts, Models, and Applications for Earth System Life Support. Vadose Zone Journal, 2013, 12, 1-13.	2.2	42
64	Soil water in a fragiaqualf. Soil Research, 1979, 17, 443.	1.1	41
65	Modelling the link between hillslope water movement and stream flow: application to a small Mediterranean forest watershed. Journal of Hydrology, 1997, 203, 11-20.	5.4	40
66	Kirkham's Legacy and Contemporary Challenges in Soil Physics Research. Soil Science Society of America Journal, 2011, 75, 1589-1601.	2.2	40
67	Plant Water Status and Fruit Quality in `Braeburn' Apples. Hortscience: A Publication of the American Society for Hortcultural Science, 1994, 29, 1274-1278.	1.0	40
68	A Dielectric–Water Content Relationship for Sandy Volcanic Soils in New Zealand. Soil Science Society of America Journal, 1999, 63, 777-781.	2.2	39
69	Is soil water repellency a function of soil order and proneness to drought? A survey of soils under pasture in the North Island of New Zealand. European Journal of Soil Science, 2011, 62, 765-779.	3.9	38
70	Runoff and nutrient loss from a water-repellent soil. Geoderma, 2018, 322, 28-37.	5.1	38
71	Leaching of copper, chromium and arsenic from treated vineyard posts in Marlborough, New Zealand. Science of the Total Environment, 2006, 364, 113-123.	8.0	37
72	Diurnal and nocturnal transpiration behaviors and their responses to groundwater-table fluctuations and meteorological factors of Populus tomentosa in the North China Plain. Forest Ecology and Management, 2019, 448, 445-456.	3.2	37

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73	Effects of climate change on the delivery of soilâ€mediated ecosystem services within the primary sector in temperate ecosystems: a review and New Zealand case study. Global Change Biology, 2015, 21, 2844-2860.	9.5	36
74	Irrigation management with saline groundwater of a date palm cultivar in the hyper-arid United Arab Emirates. Agricultural Water Management, 2019, 211, 123-131.	5.6	36
75	Can product water footprints indicate the hydrological impact of primary production? – A case study of New Zealand kiwifruit. Journal of Hydrology, 2011, 408, 246-256.	5.4	34
76	Effect of Biochar on Nutrient Leaching in a Young Apple Orchard. Journal of Environmental Quality, 2015, 44, 1273-1282.	2.0	34
77	The impact of CCA-treated posts in vineyards on soil and ground water. Water Science and Technology, 2007, 56, 161-168.	2.5	33
78	Trace element accumulation by poplars and willows used for stock fodder. New Zealand Journal of Agricultural Research, 2005, 48, 489-497.	1.6	32
79	Chapter 3 Bioavailability: Definition, assessment and implications for risk assessment. Developments in Soil Science, 2008, , 39-51.	0.5	32
80	New Zealand's Food Waste: Estimating the Tonnes, Value, Calories and Resources Wasted. Agriculture (Switzerland), 2016, 6, 9.	3.1	32
81	Irrigation management in poplar (Populus spp.) plantations: A review. Forest Ecology and Management, 2021, 494, 119330.	3.2	32
82	Diffusivity and One-Dimensional Absorption Experiments. Soil Science Society of America Journal, 1983, 47, 641-644.	2.2	31
83	Three-Dimensional Infiltration and Trickle Irrigation. Transactions of the American Society of Agricultural Engineers, 1985, 28, 497-501.	0.9	31
84	Solute transport in a layered field soil: Experiments and modelling using the convection-dispersion approach. Journal of Contaminant Hydrology, 1994, 16, 339-358.	3.3	31
85	Drainage networks in soils. A concept to describe bypass-flow pathways. Journal of Hydrology, 2003, 272, 148-162.	5.4	31
86	Soil-water repellency characteristic curves for soil profiles with organic carbon gradients. Geoderma, 2016, 264, 150-159.	5.1	30
87	The diurnal and seasonal water relations, and composition, of `Braeburn' apple fruit under reduced plant water status. Plant Science, 1997, 126, 145-154.	3.6	29
88	Mobility of copper, chromium and arsenic from treated timber into grapevines. Science of the Total Environment, 2007, 388, 35-42.	8.0	28
89	An Unsaturated Transient Flow Method for Determining Solute Adsorption by Variableâ€Charge Soils. Soil Science Society of America Journal, 2001, 65, 283-290.	2.2	27
90	Quantifying and reducing the water footprint of rain-fed potato production, part I: measuring the net use of blue and green water. Journal of Cleaner Production, 2014, 81, 111-119.	9.3	27

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91	Constant-rate Rainfall Infiltration: Field Experiments. Soil Science Society of America Journal, 1981, 45, 245-249.	2.2	26
92	Solute Movement through an Allophanic Soil. Journal of Environmental Quality, 2003, 32, 2325-2333.	2.0	26
93	Evaluation of Drainage from Passive Suction and Nonsuction Flux Meters in a Volcanic Clay Soil under Tropical Conditions. Vadose Zone Journal, 2005, 4, 1201-1209.	2.2	26
94	Solute movement through two unsaturated soils. Soil Research, 1995, 33, 585.	1.1	25
95	Infiltration from a surface point source and drip irrigation: 1. The midpoint soil water pressure. Water Resources Research, 1997, 33, 1861-1867.	4.2	25
96	Modeling soil evaporation and the response of the crop coefficient to leaf area index in mature Populus tomentosa plantations growing under different soil water availabilities. Agricultural and Forest Meteorology, 2019, 264, 125-137.	4.8	24
97	Solute travel times during trickle irrigation. Water Resources Research, 1984, 20, 1848-1852.	4.2	23
98	Axisymmetric Transport of Water and Solute underneath a Disk Permeameter: Experiments and Numerical Model. Soil Science Society of America Journal, 1994, 58, 696-703.	2.2	23
99	Hydraulic Properties and the Water-Conducting Porosity as Affected by Subsurface Compaction using Tension Infiltrometers. Soil Science Society of America Journal, 2011, 75, 822-831.	2.2	23
100	Can minor compaction increase soil carbon sequestration? A case study in a soil under a wheel-track in an orchard. Geoderma, 2012, 183-184, 74-79.	5.1	23
101	TDR estimation of the resident concentration of electrolyte in the soil solution. Soil Research, 1997, 35, 515.	1.1	23
102	Measured and estimated evapotranspiration from well-watered crops. New Zealand Journal of Agricultural Research, 1982, 25, 301-307.	1.6	22
103	The Movement of Ammonium Nitrate into Unsaturated Soil During Unsteady Absorption. Soil Science Society of America Journal, 1988, 52, 340-345.	2.2	22
104	Nitrogen Transport During Drip Fertigation with Urea. Soil Science Society of America Journal, 1988, 52, 345-349.	2.2	22
105	Evapotranspiration from pasture: a comparison of lysimeter and Bowen ratio measurements with Priestley-Taylor estimates. New Zealand Journal of Agricultural Research, 1984, 27, 321-327.	1.6	21
106	Modelling nitrate and bromide leaching from sewage sludge. Soil and Tillage Research, 2006, 89, 177-184.	5.6	21
107	Chapter 1 Chemical bioavailability in terrestrial environments. Developments in Soil Science, 2008, 32, 1-6.	0.5	21
108	Temporal dynamics of soil water repellency and its impact on pasture productivity. Agricultural Water Management, 2014, 143, 82-92.	5.6	21

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109	Solute movement during intermittent water flow in a field soil and some implications for irrigation and fertilizer application. Agricultural Water Management, 1991, 20, 119-133.	5.6	20
110	A Simple Approach to Determine Reactive Solute Transport Using Time Domain Reflectometry. Soil Science Society of America Journal, 2000, 64, 12-18.	2.2	20
111	Estimation of nitrate retention in a Ferralsol by a transient-flow method. European Journal of Soil Science, 2003, 54, 505-516.	3.9	20
112	Magnetic Resonance Imaging of Hydrodynamic Dispersion in a Saturated Porous Medium. Transport in Porous Media, 2004, 54, 145-166.	2.6	20
113	El Ni $\tilde{A}\pm$ o-Southern Oscillation determines the salinity of the freshwater lens under a coral atoll in the Pacific Ocean. Geophysical Research Letters, 2006, 33, .	4.0	20
114	Does an increase in soil organic carbon improve the filtering capacity of aggregated soils for organic pesticides? — A case study. Geoderma, 2009, 152, 187-193.	5.1	20
115	Drainage Flux in Permeable Soil Underlain by a Coarse-Textured Layer1. Soil Science Society of America Journal, 1977, 41, 671.	2.2	19
116	Measuring and modelling the transport and root uptake of chemicals in the unsaturated zone. Plant and Soil, 2001, 231, 161-174.	3.7	19
117	Water use of Al Ghaf (Prosopis cineraria) and Al Sidr (Ziziphus spina-christi) forests irrigated with saline groundwater in the hyper-arid deserts of Abu Dhabi. Agricultural Water Management, 2018, 203, 105-114.	5.6	19
118	Nitrate leaching through oxisols of the Loyalty Islands (New Caledonia) under intensified agricultural practices. Geoderma, 1998, 84, 29-43.	5.1	18
119	Horizontal and Vertical TDR Measurements of Soil Water Content and Electrical Conductivity. Soil Science Society of America Journal, 2002, 66, 735-743.	2.2	18
120	A New Method to Quantify the Impact of Soil Carbon Management on Biophysical Soil Properties: The Example of Two Apple Orchard Systems in New Zealand. Journal of Environmental Quality, 2008, 37, 915-924.	2.0	18
121	In Situ Measurement of the Solute Adsorption Isotherm Using a Disc Permeameter. Water Resources Research, 1996, 32, 771-778.	4.2	17
122	Anion transport through intact soil columns during intermittent unsaturated flow. Soil and Tillage Research, 1998, 45, 147-160.	5.6	17
123	Risk Assessment of the Irrigation Requirements of Field Crops in a Maritime Climate. The Journal of Crop Improvement: Innovations in Practiceory and Research, 2000, 2, 353-377.	0.4	17
124	Influence of sampling frequency and load calculation methods on quantification of annual river nutrient and suspended solids loads. Environmental Monitoring and Assessment, 2018, 190, 78.	2.7	17
125	The blue and grey water footprints of date production in the saline and hyper-arid deserts of United Arab Emirates. Irrigation Science, 2019, 37, 657-667.	2.8	16
126	Estimating the extent of fire induced soil water repellency in Mediterranean environment. Geoderma, 2019, 338, 187-196.	5.1	16

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127	Mottling in Soil Profiles Containing a Coarse-textured Horizon. Soil Science Society of America Journal, 1978, 42, 761-763.	2.2	15
128	The Soil Water Diffusivity Near Saturation. Soil Science Society of America Journal, 1983, 47, 636-640.	2.2	15
129	Leaching of copper from contaminated soil following the application of EDTA. I. Repacked soil experiments and a model. Soil Research, 2003, 41, 323.	1.1	15
130	Prediction of Groundwater Nitrate Contamination after Closure of an Unlined Sheep Feedlot. Vadose Zone Journal, 2004, 3, 990-1006.	2.2	15
131	Reduced Irrigation Maintains Photosynthesis, Growth, Yield, and Fruit Quality in â€~Pacific Roseâ,,¢â€™ Apple. Agroecology and Sustainable Food Systems, 2007, 30, 125-136.	0.9	14
132	The use of visible and nearâ€infrared spectroscopy for the analysis of soil water repellency. European Journal of Soil Science, 2014, 65, 360-368.	3.9	14
133	Modelling soil-water dynamics in the rootzone of structured and water-repellent soils. Computers and Geosciences, 2018, 113, 33-42.	4.2	14
134	Leaching of copper from contaminated soil following the application of EDTA. II. Intact core experiments and model testing. Soil Research, 2003, 41, 335.	1.1	14
135	Variations in water-balance components and carbon stocks in poplar plantations with differing water inputs over a whole rotation: implications for sustainable forest management under climate change. Agricultural and Forest Meteorology, 2022, 320, 108958.	4.8	14
136	Water Diffusivity of a Field Soil 1. Soil Science Society of America Journal, 1982, 46, 155.	2.2	13
137	Where to monitor the soil-water potential for scheduling drip irrigation in Populus tomentosa plantations located on the North China Plain?. Forest Ecology and Management, 2019, 437, 99-112.	3.2	13
138	Effects of Increased N Deposition on Leaf Functional Traits of Four Contrasting Tree Species in Northeast China. Plants, 2020, 9, 1231.	3.5	13
139	Solute movement through undisturbed soil columns under pasture during unsaturated flow. Soil Research, 1997, 35, 1153.	1.1	13
140	A Transient Method for Measuring Soil Water Diffusivity and Unsaturated Hydraulic Conductivity1. Soil Science Society of America Journal, 1983, 47, 1068.	2.2	12
141	Predicting the field characteristics of drip irrigation. Soil and Tillage Research, 1991, 4, 125-134.	0.4	12
142	The impact of soil carbon management and environmental conditions on N mineralization. Biology and Fertility of Soils, 2011, 47, 709-714.	4.3	12
143	A novel approach to quantify the impact of soil water repellency on run-off and solute loss. Geoderma, 2014, 221-222, 121-130.	5.1	12
144	A critical assessment of the role of measured hydraulic properties in the simulation of absorption, infiltration and redistribution of soil water. Agricultural Water Management, 1988, 15, 73-86.	5.6	11

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145	Multidimensional Infiltration: Points, Furrows, Basins, Wells, and Disks. Soil Science Society of America Journal, 1995, 59, 286-292.	2.2	11
146	Preharvest and storage quality of â€~Braeburn' apple fruit grown under water deficit conditions. New Zealand Journal of Crop and Horticultural Science, 1996, 24, 159-166.	1.3	11
147	Water Dynamics and Nutrient Leaching through a Cropped Ferralsol in the Loyalty Islands (New) Tj ETQq $1\ 1\ 0.78$	34314 rgBT 2.0	Overlock
148	Water Relations, Growth, and Yield of Processing Tomatoes Under Partial Rootzone Drying. International Journal of Vegetable Science, 2004, 9, 31-40.	0.2	11
149	Data requirements for identifying macroscopic water stress parameters: A study on grapevines. Water Resources Research, 2005, 41, .	4.2	11
150	Simultaneous Adsorption of Calcium and Sulfate and Its Effect on Their Movement. Soil Science Society of America Journal, 2007, 71, 703-710.	2.2	11
151	Effect of dairy effluent on the biomass, transpiration, and elemental composition of Salix kinuyanagi Kimura. Biomass and Bioenergy, 2012, 37, 282-288.	5.7	11
152	Quantifying and reducing the water footprint of rain-fed potato production part II: a hydrological assessment using modelling supported by measurements. Journal of Cleaner Production, 2014, 81, 103-110.	9.3	11
153	Highâ€speed photography of water drop impacts on sand and soil. European Journal of Soil Science, 2019, 70, 245-256.	3.9	11
154	Fruit Characteristics of `Hosui' Asian Pears after Deficit Irrigation. Hortscience: A Publication of the American Society for Hortcultural Science, 1996, 31, 162.	1.0	11
155	Research Imperatives for Irrigation Science. Journal of Irrigation and Drainage Engineering - ASCE, 1989, 115, 421-448.	1.0	10
156	Solubility, Mobility, and Bioaccumulation of Trace Elements. , 2005, , 97-110.		10
157	Carbon Sequestration in Kiwifruit Orchard Soils at Depth to Mitigate Carbon Emissions. Communications in Soil Science and Plant Analysis, 2015, 46, 122-136.	1.4	10
158	Water requirements for irrigation with saline groundwater of three date-palm cultivars with different salt-tolerances in the hyper-arid United Arab Emirates. Agricultural Water Management, 2019, 222, 213-220.	5.6	10
159	Use of either pumice or willow-based biochar amendments to decrease soil salinity under arid conditions. Environmental Technology and Innovation, 2021, 24, 101849.	6.1	10
160	Sprinkler Irrigation, Roots and the Uptake of Water. , 1990, , 101-108.		10
161	Investing in water for food, ecosystems, and livelihoods. Agricultural Water Management, 2010, 97, 493-494.	5 . 6	9
162	An undiscovered facet of hydraulic redistribution driven by evaporationâ€"a study from a <i>Populus tomentosa</i> plantation. Plant Physiology, 2021, 186, 361-372.	4.8	9

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163	Postharvest Performance of †Pacific Roseâ, ¢â€ Apple Grown Under Partial Rootzone Drying. Hortscience: A Publication of the American Society for Hortcultural Science, 2008, 43, 952-954.	1.0	9
164	Short rotation forestry for land treatment of effluent: a lysimeter study. Soil Research, 1999, 37, 983.	1.1	8
165	Tree Species for Recovering Nitrogen from Dairyâ€Farm Effluent in New Zealand. Journal of Environmental Quality, 2001, 30, 1064-1070.	2.0	8
166	Hydropedologyâ€"A Perspective on Current Research. Vadose Zone Journal, 2013, 12, 1-3.	2.2	8
167	A new method to quantify how water repellency compromises soils' filtering function. European Journal of Soil Science, 2014, 65, 348-359.	3.9	8
168	3.5 Unsaturated Water Transmission Parameters Obtained from Infiltration. Soil Science Society of America Book Series, 0, , 879-898.	0.3	8
169	The impact of replacing groundwater by treated sewage effluent on the irrigation requirements of Al Ghaf (Prosopis cineraria) and Al Sidr (Ziziphus spina-christi) forests in the hyper-arid deserts of Abu Dhabi. Agricultural Water Management, 2019, 214, 28-37.	5.6	8
170	Reporting on water productivity and economic performance at the water-food nexus. Agricultural Water Management, 2020, 237, 106123.	5.6	8
171	Cation transport during unsaturated flow through two intact soils. European Journal of Soil Science, 1997, 48, 401-410.	3.9	8
172	RESPONSE OF TOMATO TO PARTIAL ROOTZONE DRYING AND DEFICIT IRRIGATION. Revista Fitotecnia Mexicana, 2007, 30, 125.	0.1	8
173	Solute Dispersion During Axisymmetric Three-Dimensional Unsaturated Water Flow. Soil Science Society of America Journal, 1985, 49, 552-556.	2.2	7
174	The free-water pond under a trickle source: A field test of existing theories. Irrigation Science, 1996, 16, 169-173.	2.8	7
175	Rootzone processes, tree water-use, and the equitable allocation of irrigation water to olives. Geophysical Monograph Series, 2002, , 337-345.	0.1	7
176	Cation influence on sulfate leaching in allophanic soils. Soil Research, 2007, 45, 49.	1.1	7
177	Water use and irrigation requirements for date palms on commercial farms in the hyper-arid United Arab Emirates. Agricultural Water Management, 2019, 223, 105702.	5.6	7
178	Solute Transport During Absorption and Infiltration: A Comparison of Analytical Approximations 1. Soil Science Society of America Journal, 1987, 51, 282.	2.2	6
179	Imaging the electrical conductivity of the soil profile and its relationships to soil water patterns and drainage characteristics. Precision Agriculture, 2021, 22, 1045-1066.	6.0	6
180	Redistribution of Water and Solute Following Infiltration From a Surface Drip Source. Water Resources Research, 1991, 27, 2091-2097.	4.2	5

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