Miles F Dyck

List of Publications by Year in Descending Order

77 papers	1,417 citations	22 h-index	34 g-index
78 ext. papers	1,839 ext. citations	4.5 avg, IF	5 L-index

#	Paper	IF	Citations
77	Bibliometric Analysis of Soil Nutrient Research between 1992 and 2020. *Agriculture (Switzerland)*, **2021**, 11, 223	3	6
76	Modeling thermal conductivity of clays: A review and evaluation of 28 predictive models. *Engineering Geology*, **2021**, 288, 106107	6	5
75	A review and evaluation of thermal conductivity models of saturated soils. *Archives of Agronomy and Soil Science*, **2021**, 67, 974-986	2	10
74	Evaluation of a multi-sensor for measuring solution electrical conductivity in coir. *Soil Science Society of America Journal*, **2021**, 85, 526-533	2.5	
73	A review and evaluation of 39 thermal conductivity models for frozen soils. *Geoderma*, **2021**, 382, 114694	6.7	14
72	Time and frequency domain reflectometry for the measurement of tree stem water content: A review, evaluation, and future perspectives. *Agricultural and Forest Meteorology*, **2021**, 306, 108442	5.8	6
71	Mapping the scientific research on natural landscape change with rephotography. *Ecological Informatics*, **2021**, 64, 101387	4.2	1
70	Modelling dry soil thermal conductivity. *Soil and Tillage Research*, **2021**, 213, 105093	6.5	0
69	Manure-induced carbon retention measured from long-term field studies in Canada. *Agriculture, Ecosystems and Environment*, **2021**, 321, 107619	5.7	1
68	Evaluation of 14 frozen soil thermal conductivity models with observations and SHAW model simulations. *Geoderma*, **2021**, 403, 115207	6.7	3
67	A review of time domain reflectometry (TDR) applications in porous media. *Advances in Agronomy*, **2021**, 168, 83-155	7.7	4
66	Room for improvement: A review and evaluation of 24 soil thermal conductivity parameterization schemes commonly used in land-surface, hydrological, and soil-vegetation-atmosphere transfer models. *Earth-Science Reviews*, **2020**, 211, 103419	10.2	12
65	Modelling of soil solid thermal conductivity. *International Communications in Heat and Mass Transfer* , **2020**, 116, 104602	5.8	9
64	A new model for predicting soil thermal conductivity from matric potential. *Journal of Hydrology*, **2020**, 589, 125167	6	12
63	Theory and Solutions of Heat Pulse Method for Determining Soil Thermal Properties. *IOP Conference Series: Earth and Environmental Science*, **2020**, 440, 052039	0.3	4
62	A Review and Evaluation of Predictive Models for Thermal Conductivity of Sands at Full Water Content Range. *Energies*, **2020**, 13, 1083	3.1	14
61	Lead immobilization processes in soils subjected to freeze-thaw cycles. *Ecotoxicology and Environmental Safety*, **2020**, 192, 110288	7	18

60	Greenhouse gas emissions and carbon footprint under gravel mulching on China's Loess Plateau. *Agronomy Journal*, **2020**, 112, 733-747	2.2	4
59	Soil nitrous oxide emissions most sensitive to fertilization history during a laboratory incubation. *Canadian Journal of Soil Science*, **2020**, 100, 479-487	1.4	0
58	The Heat Pulse Method for Soil Physical Measurements: A Bibliometric Analysis. *Applied Sciences (Switzerland)*, **2020**, 10, 6171	2.6	6
57	Tillage reversal did not reverse N fertilization enhanced C storage in a Black Chernozem and a Gray Luvisol. *Geoderma*, **2020**, 370, 114355	6.7	3
56	A generalized model for estimating effective soil thermal conductivity based on the Kasubuchi algorithm. *Geoderma*, **2019**, 353, 227-242	6.7	22
55	Energy input-output, water use efficiency and economics of winter wheat under gravel mulching in Northwest China. *Agricultural Water Management*, **2019**, 222, 354-366	5.9	9
54	Bound Water, Phase Configuration, and Dielectric Damping Effects on TDR-Measured Apparent Permittivity. *Vadose Zone Journal*, **2019**, 18, 1-14	2.7	7
53	Integrating Cultural Practices with Herbicides Augments Weed Management in Flax. *Agronomy Journal*, **2019**, 111, 1904-1912	2.2	9
52	Effects of gravel mulching on yield and multilevel water use efficiency of wheat-maize cropping system in semi-arid region of Northwest China. *Field Crops Research*, **2018**, 218, 201-212	5.5	19
51	Effects of lateral spacing for drip irrigation and mulching on the distributions of soil water and nitrate, maize yield, and water use efficiency. *Agricultural Water Management*, **2018**, 199, 190-200	5.9	18
50	Drip irrigation with film mulch improves soil alkaline phosphatase and phosphorus uptake. *Agricultural Water Management*, **2018**, 201, 258-267	5.9	12
49	Agronomic and physiological aspects of nitrogen use efficiency in conventional and organic cereal-based production systems. *Renewable Agriculture and Food Systems*, **2018**, 33, 443-466	1.8	15
48	Investigating Genetic Progress and Variation for Nitrogen Use Efficiency in Spring Wheat. *Crop Science*, **2018**, 58, CSC2CROPSCI2017100598	2.4	11
47	Application Rate Influences the Soil and Water Conservation Effectiveness of Mulching with Chipped Branches. *Soil Science Society of America Journal*, **2018**, 82, 447-454	2.5	8
46	Liming does not counteract the influence of long-term fertilization on soil bacterial community structure and its co-occurrence pattern. *Soil Biology and Biochemistry*, **2018**, 123, 45-53	7.5	38
45	Drip irrigation with film covering improves soil enzymes and muskmelon growth in the greenhouse. *Soil Research*, **2018**, 56, 59	1.8	4
44	Development and Application of the Heat Pulse Method for Soil Physical Measurements. *Reviews of Geophysics*, **2018**, 56, 567-620	23.1	59
43	Soil water and root distribution of apple tree (Malus pumila Mill) stands in relation to stand age and rainwater collection and infiltration system (RWCI) in a hilly region of the Loess Plateau, China. *Catena*, **2018**, 170, 324-334	5.8	31

42	Wastewater Flow and Pathogen Transport from At-Grade Line Sources to Shallow Groundwater. *Journal of Environmental Quality*, **2018**, 47, 1051-1057	3.4	2
41	Distributed Temperature Sensing for Soil Physical Measurements and Its Similarity to Heat Pulse Method. *Advances in Agronomy*, **2018**, 148, 173-230	7.7	29
40	Effects of different mulching technologies on evapotranspiration and summer maize growth. *Agricultural Water Management*, **2018**, 201, 309-318	5.9	27
39	Vegetative filter strips: Effect of vegetation type and shape of strip on run-off and sediment trapping. *Land Degradation and Development*, **2018**, 29, 3917-3927	4.4	5
38	Contrasting effects of straw and straw-derived biochar application on net global warming potential in the Loess Plateau of China. *Field Crops Research*, **2017**, 205, 45-54	5.5	66
37	Effects of straw and biochar amendments on aggregate stability, soil organic carbon, and enzyme activities in the Loess Plateau, China. *Environmental Science and Pollution Research*, **2017**, 24, 10108-10120	5.1	84
36	Root competition, not soil compaction, restricts access to soil resources for aspen on a reclaimed mine soil. *Botany*, **2017**, 95, 685-695	1.3	14
35	Drip irrigation lateral spacing and mulching affects the wetting pattern, shoot-root regulation, and yield of maize in a sand-layered soil. *Agricultural Water Management*, **2017**, 184, 114-123	5.9	23
34	Effect of plant cover type on soil water budget and tree photosynthesis in jujube orchards. *Agricultural Water Management*, **2017**, 184, 135-144	5.9	12
33	Spatial distribution of soil moisture and fine roots in rain-fed apple orchards employing a Rainwater Collection and Infiltration (RWCI) system on the Loess Plateau of China. *Agricultural Water Management*, **2017**, 184, 170-177	5.9	35
32	Effects of Long-term Fertilization History and Current N and S Fertilizer Applications on Nitrous Oxide Production from S-deficient Soils in a Laboratory Incubation. *Canadian Journal of Soil Science*, **2017**,	1.4	1
31	Growing Season Nitrous Oxide Emissions from a Gray Luvisol as a Function of Long-term Fertilization History and Crop Rotation. *Canadian Journal of Soil Science*, **2017**,	1.4	6
30	Dynamics of runoff and sediment trapping performance of vegetative filter strips: Run-on experiments and modeling. *Science of the Total Environment*, **2017**, 593-594, 54-64	10.2	22
29	Carbon, nitrogen and phosphorus release from peat and forest floor-based cover soils used during oil sands reclamation. *Canadian Journal of Soil Science*, **2017**,	1.4	7
28	A modified normalized model for predicting effective soil thermal conductivity. *Acta Geotechnica*, **2017**, 12, 1281-1300	4.9	59
27	Effects of straw and plastic film mulching on greenhouse gas emissions in Loess Plateau, China: A field study of 2 consecutive wheat-maize rotation cycles. *Science of the Total Environment*, **2017**, 579, 814-824	10.2	102
26	Litter decay controlled by temperature, not soil properties, affecting future soil carbon. *Global Change Biology*, **2017**, 23, 1725-1734	11.4	50
25	Hydrologic Response to Effluent Infiltrating from At-Grade Line Sources to Shallow Groundwater. *Vadose Zone Journal*, **2016**, 15, vzj2015.10.0141	2.7	1

24	Evaluation of five composite dielectric mixing models for understanding relationships between effective permittivity and unfrozen water content. *Cold Regions Science and Technology*, **2016**, 130, 33-42	3.8	24
23	Monitoring soil water content at a heterogeneous oil sand reclamation site using a cosmic-ray soil moisture probe. *Journal of Hydrology*, **2016**, 543, 510-522	6	10
22	Evaluating the Competitive Ability of Semileafless Field Pea Cultivars. *Weed Science*, **2016**, 64, 137-145	2	9
21	The effects of environmental and socioeconomic factors on land-use changes: a study of Alberta, Canada. *Environmental Monitoring and Assessment*, **2016**, 188, 446	3.1	12
20	Yields and Nutritional of Greenhouse Tomato in Response to Different Soil Aeration Volume at two depths of Subsurface drip irrigation. *Scientific Reports*, **2016**, 6, 39307	4.9	28
19	Single-Probe Heat Pulse Method for Soil Water Content Determination: Comparison of Methods. *Vadose Zone Journal*, **2016**, 15, vzj2016.01.0004	2.7	11
18	Evaluation of TDR for Quantifying Heat-Pulse-Method-Induced Ice Melting in Frozen Soils. *Soil Science Society of America Journal*, **2015**, 79, 1275-1288	2.5	26
17	Soil freezing–thawing characteristics and snowmelt infiltration in Cryalfs of Alberta, Canada. *Geoderma Regional*, **2015**, 5, 198-208	2.7	32
16	Carbon dioxide emissions from tillage of two long-term no-till Canadian prairie soils. *Soil and Tillage Research*, **2014**, 144, 72-82	6.5	18
15	Long-term S-fertilization increases carbon sequestration in a sulfur-deficient soil. *Canadian Journal of Soil Science*, **2014**, 94, 295-301	1.4	6
14	Evaluation of infiltration models with different numbers of fitting parameters in different soil texture classes. *Archives of Agronomy and Soil Science*, **2014**, 60, 681-693	2	35
13	Application of Multiphase Dielectric Mixing Models for Understanding the Effective Dielectric Permittivity of Frozen Soils. *Vadose Zone Journal*, **2013**, 12, vzj2012.0060	2.7	45
12	In situ measurement of snowmelt infiltration under various topsoil cap thicknesses on a reclaimed site. *Canadian Journal of Soil Science*, **2013**, 93, 497-510	1.4	25
11	Flow and Transport in Layered Soils. *Canadian Journal of Soil Science*, **2011**, 91, 127-132	1.4	20
10	Improving crop yield and N uptake with long-term straw retention in two contrasting soil types. *Field Crops Research*, **2011**, 124, 378-391	5.5	59
9	Long-term straw management and N fertilizer rate effects on quantity and quality of organic C and N and some chemical properties in two contrasting soils in Western Canada. *Biology and Fertility of Soils*, **2011**, 47, 785-800	6.1	48
8	Solute transport scales in an unsaturated stony soil. *Advances in Water Resources*, **2011**, 34, 747-759	4.7	18
7	Differences in initial root development and soil conditions affect establishment of trembling aspen and balsam poplar seedlings. *Botany*, **2010**, 88, 275-285	1.3	18

6	D. I. Jarvis, C. Padoch, and H. D. Cooper, eds, Managing Biodiversity in Agricultural Ecosystems. *Human Ecology*, **2010**, 38, 173-174	2	1
5	Spatial Scale-Dependence of Preferred Flow Domains during Infiltration in a Layered Field Soil. *Vadose Zone Journal*, **2010**, 9, 385-396	2.7	5
4	Measurement of Steady-State Soil Water Flux across a Soil Horizon Interface. *Soil Science Society of America Journal*, **2009**, 73, 1786-1795	2.5	3
3	Measurement of Transient Soil Water Flux Across a Soil Horizon Interface. *Soil Science Society of America Journal*, **2009**, 73, 1604-1613	2.5	6
2	Spatial Variability of Long-Term Chloride Transport under Semiarid Conditions: Pedon Scale. *Vadose Zone Journal*, **2005**, 4, 915-923	2.7	14
1	Carbon-sensitive pedotransfer functions for plant available water. *Soil Science Society of America Journal*,	2.5	3