

# Miles F Dyck

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/9568499/miles-f-dyck-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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. <i>Science of the Total Environment</i> , <b>2017</b> , 579, 814-824	10.2	102
76	Effects of straw and biochar amendments on aggregate stability, soil organic carbon, and enzyme activities in the Loess Plateau, China. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 10108-10120	5.1	84
75	Contrasting effects of straw and straw-derived biochar application on net global warming potential in the Loess Plateau of China. <i>Field Crops Research</i> , <b>2017</b> , 205, 45-54	5.5	66
74	Development and Application of the Heat Pulse Method for Soil Physical Measurements. <i>Reviews of Geophysics</i> , <b>2018</b> , 56, 567-620	23.1	59
73	A modified normalized model for predicting effective soil thermal conductivity. <i>Acta Geotechnica</i> , <b>2017</b> , 12, 1281-1300	4.9	59
72	Improving crop yield and N uptake with long-term straw retention in two contrasting soil types. <i>Field Crops Research</i> , <b>2011</b> , 124, 378-391	5.5	59
71	Litter decay controlled by temperature, not soil properties, affecting future soil carbon. <i>Global Change Biology</i> , <b>2017</b> , 23, 1725-1734	11.4	50
70	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. <i>Biology and Fertility of Soils</i> , <b>2011</b> , 47, 785-800	6.1	48
69	Application of Multiphase Dielectric Mixing Models for Understanding the Effective Dielectric Permittivity of Frozen Soils. <i>Vadose Zone Journal</i> , <b>2013</b> , 12, vj2012.0060	2.7	45
68	Liming does not counteract the influence of long-term fertilization on soil bacterial community structure and its co-occurrence pattern. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 123, 45-53	7.5	38
67	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. <i>Agricultural Water Management</i> , <b>2017</b> , 184, 170-177	5.9	35
66	Evaluation of infiltration models with different numbers of fitting parameters in different soil texture classes. <i>Archives of Agronomy and Soil Science</i> , <b>2014</b> , 60, 681-693	2	35
65	Soil freezing/thawing characteristics and snowmelt infiltration in Cryalfs of Alberta, Canada. <i>Geoderma Regional</i> , <b>2015</b> , 5, 198-208	2.7	32
64	Soil water and root distribution of apple tree ( <i>Malus pumila</i> Mill) stands in relation to stand age and rainwater collection and infiltration system (RWCI) in a hilly region of the Loess Plateau, China. <i>Catena</i> , <b>2018</b> , 170, 324-334	5.8	31
63	Distributed Temperature Sensing for Soil Physical Measurements and Its Similarity to Heat Pulse Method. <i>Advances in Agronomy</i> , <b>2018</b> , 148, 173-230	7.7	29
62	Yields and Nutritional of Greenhouse Tomato in Response to Different Soil Aeration Volume at two depths of Subsurface drip irrigation. <i>Scientific Reports</i> , <b>2016</b> , 6, 39307	4.9	28
61	Effects of different mulching technologies on evapotranspiration and summer maize growth. <i>Agricultural Water Management</i> , <b>2018</b> , 201, 309-318	5.9	27

60	Evaluation of TDR for Quantifying Heat-Pulse-Method-Induced Ice Melting in Frozen Soils. <i>Soil Science Society of America Journal</i> , <b>2015</b> , 79, 1275-1288	2.5	26
59	In situ measurement of snowmelt infiltration under various topsoil cap thicknesses on a reclaimed site. <i>Canadian Journal of Soil Science</i> , <b>2013</b> , 93, 497-510	1.4	25
58	Evaluation of five composite dielectric mixing models for understanding relationships between effective permittivity and unfrozen water content. <i>Cold Regions Science and Technology</i> , <b>2016</b> , 130, 33-42	3.8	24
57	Drip irrigation lateral spacing and mulching affects the wetting pattern, shoot-root regulation, and yield of maize in a sand-layered soil. <i>Agricultural Water Management</i> , <b>2017</b> , 184, 114-123	5.9	23
56	Dynamics of runoff and sediment trapping performance of vegetative filter strips: Run-on experiments and modeling. <i>Science of the Total Environment</i> , <b>2017</b> , 593-594, 54-64	10.2	22
55	A generalized model for estimating effective soil thermal conductivity based on the Kasubuchi algorithm. <i>Geoderma</i> , <b>2019</b> , 353, 227-242	6.7	22
54	Flow and Transport in Layered Soils. <i>Canadian Journal of Soil Science</i> , <b>2011</b> , 91, 127-132	1.4	20
53	Effects of gravel mulching on yield and multilevel water use efficiency of wheat-maize cropping system in semi-arid region of Northwest China. <i>Field Crops Research</i> , <b>2018</b> , 218, 201-212	5.5	19
52	Lead immobilization processes in soils subjected to freeze-thaw cycles. <i>Ecotoxicology and Environmental Safety</i> , <b>2020</b> , 192, 110288	7	18
51	Effects of lateral spacing for drip irrigation and mulching on the distributions of soil water and nitrate, maize yield, and water use efficiency. <i>Agricultural Water Management</i> , <b>2018</b> , 199, 190-200	5.9	18
50	Carbon dioxide emissions from tillage of two long-term no-till Canadian prairie soils. <i>Soil and Tillage Research</i> , <b>2014</b> , 144, 72-82	6.5	18
49	Differences in initial root development and soil conditions affect establishment of trembling aspen and balsam poplar seedlings. <i>Botany</i> , <b>2010</b> , 88, 275-285	1.3	18
48	Solute transport scales in an unsaturated stony soil. <i>Advances in Water Resources</i> , <b>2011</b> , 34, 747-759	4.7	18
47	Agronomic and physiological aspects of nitrogen use efficiency in conventional and organic cereal-based production systems. <i>Renewable Agriculture and Food Systems</i> , <b>2018</b> , 33, 443-466	1.8	15
46	Root competition, not soil compaction, restricts access to soil resources for aspen on a reclaimed mine soil. <i>Botany</i> , <b>2017</b> , 95, 685-695	1.3	14
45	A Review and Evaluation of Predictive Models for Thermal Conductivity of Sands at Full Water Content Range. <i>Energies</i> , <b>2020</b> , 13, 1083	3.1	14
44	Spatial Variability of Long-Term Chloride Transport under Semiarid Conditions: Pedon Scale. <i>Vadose Zone Journal</i> , <b>2005</b> , 4, 915-923	2.7	14
43	A review and evaluation of 39 thermal conductivity models for frozen soils. <i>Geoderma</i> , <b>2021</b> , 382, 114694	6.7	14

42	Effect of plant cover type on soil water budget and tree photosynthesis in jujube orchards. <i>Agricultural Water Management</i> , <b>2017</b> , 184, 135-144	5.9	12
41	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. <i>Earth-Science Reviews</i> , <b>2020</b> , 211, 103419	10.2	12
40	A new model for predicting soil thermal conductivity from matric potential. <i>Journal of Hydrology</i> , <b>2020</b> , 589, 125167	6	12
39	Drip irrigation with film mulch improves soil alkaline phosphatase and phosphorus uptake. <i>Agricultural Water Management</i> , <b>2018</b> , 201, 258-267	5.9	12
38	The effects of environmental and socioeconomic factors on land-use changes: a study of Alberta, Canada. <i>Environmental Monitoring and Assessment</i> , <b>2016</b> , 188, 446	3.1	12
37	Investigating Genetic Progress and Variation for Nitrogen Use Efficiency in Spring Wheat. <i>Crop Science</i> , <b>2018</b> , 58, CSC2CROPSCI2017100598	2.4	11
36	Single-Probe Heat Pulse Method for Soil Water Content Determination: Comparison of Methods. <i>Vadose Zone Journal</i> , <b>2016</b> , 15, vj2016.01.0004	2.7	11
35	Monitoring soil water content at a heterogeneous oil sand reclamation site using a cosmic-ray soil moisture probe. <i>Journal of Hydrology</i> , <b>2016</b> , 543, 510-522	6	10
34	A review and evaluation of thermal conductivity models of saturated soils. <i>Archives of Agronomy and Soil Science</i> , <b>2021</b> , 67, 974-986	2	10
33	Modelling of soil solid thermal conductivity. <i>International Communications in Heat and Mass Transfer</i> , <b>2020</b> , 116, 104602	5.8	9
32	Evaluating the Competitive Ability of Semileafless Field Pea Cultivars. <i>Weed Science</i> , <b>2016</b> , 64, 137-145	2	9
31	Energy input-output, water use efficiency and economics of winter wheat under gravel mulching in Northwest China. <i>Agricultural Water Management</i> , <b>2019</b> , 222, 354-366	5.9	9
30	Integrating Cultural Practices with Herbicides Augments Weed Management in Flax. <i>Agronomy Journal</i> , <b>2019</b> , 111, 1904-1912	2.2	9
29	Application Rate Influences the Soil and Water Conservation Effectiveness of Mulching with Chipped Branches. <i>Soil Science Society of America Journal</i> , <b>2018</b> , 82, 447-454	2.5	8
28	Carbon, nitrogen and phosphorus release from peat and forest floor-based cover soils used during oil sands reclamation. <i>Canadian Journal of Soil Science</i> , <b>2017</b> ,	1.4	7
27	Bound Water, Phase Configuration, and Dielectric Damping Effects on TDR-Measured Apparent Permittivity. <i>Vadose Zone Journal</i> , <b>2019</b> , 18, 1-14	2.7	7
26	Growing Season Nitrous Oxide Emissions from a Gray Luvisol as a Function of Long-term Fertilization History and Crop Rotation. <i>Canadian Journal of Soil Science</i> , <b>2017</b> ,	1.4	6
25	Long-term S-fertilization increases carbon sequestration in a sulfur-deficient soil. <i>Canadian Journal of Soil Science</i> , <b>2014</b> , 94, 295-301	1.4	6

24	Measurement of Transient Soil Water Flux Across a Soil Horizon Interface. <i>Soil Science Society of America Journal</i> , <b>2009</b> , 73, 1604-1613	2.5	6
23	The Heat Pulse Method for Soil Physical Measurements: A Bibliometric Analysis. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 6171	2.6	6
22	Bibliometric Analysis of Soil Nutrient Research between 1992 and 2020. <i>Agriculture (Switzerland)</i> , <b>2021</b> , 11, 223	3	6
21	Time and frequency domain reflectometry for the measurement of tree stem water content: A review, evaluation, and future perspectives. <i>Agricultural and Forest Meteorology</i> , <b>2021</b> , 306, 108442	5.8	6
20	Spatial Scale-Dependence of Preferred Flow Domains during Infiltration in a Layered Field Soil. <i>Vadose Zone Journal</i> , <b>2010</b> , 9, 385-396	2.7	5
19	Modeling thermal conductivity of clays: A review and evaluation of 28 predictive models. <i>Engineering Geology</i> , <b>2021</b> , 288, 106107	6	5
18	Vegetative filter strips Effect of vegetation type and shape of strip on run-off and sediment trapping. <i>Land Degradation and Development</i> , <b>2018</b> , 29, 3917-3927	4.4	5
17	Theory and Solutions of Heat Pulse Method for Determining Soil Thermal Properties. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2020</b> , 440, 052039	0.3	4
16	Greenhouse gas emissions and carbon footprint under gravel mulching on China's Loess Plateau. <i>Agronomy Journal</i> , <b>2020</b> , 112, 733-747	2.2	4
15	Drip irrigation with film covering improves soil enzymes and muskmelon growth in the greenhouse. <i>Soil Research</i> , <b>2018</b> , 56, 59	1.8	4
14	A review of time domain reflectometry (TDR) applications in porous media. <i>Advances in Agronomy</i> , <b>2021</b> , 168, 83-155	7.7	4
13	Measurement of Steady-State Soil Water Flux across a Soil Horizon Interface. <i>Soil Science Society of America Journal</i> , <b>2009</b> , 73, 1786-1795	2.5	3
12	Tillage reversal did not reverse N fertilization enhanced C storage in a Black Chernozem and a Gray Luvisol. <i>Geoderma</i> , <b>2020</b> , 370, 114355	6.7	3
11	Evaluation of 14 frozen soil thermal conductivity models with observations and SHAW model simulations. <i>Geoderma</i> , <b>2021</b> , 403, 115207	6.7	3
10	Carbon-sensitive pedotransfer functions for plant available water. <i>Soil Science Society of America Journal</i> ,	2.5	3
9	Wastewater Flow and Pathogen Transport from At-Grade Line Sources to Shallow Groundwater. <i>Journal of Environmental Quality</i> , <b>2018</b> , 47, 1051-1057	3.4	2
8	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. <i>Canadian Journal of Soil Science</i> , <b>2017</b> ,	1.4	1
7	Hydrologic Response to Effluent Infiltrating from At-Grade Line Sources to Shallow Groundwater. <i>Vadose Zone Journal</i> , <b>2016</b> , 15, vzj2015.10.0141	2.7	1

6	D. I. Jarvis, C. Padoch, and H. D. Cooper, eds, Managing Biodiversity in Agricultural Ecosystems. <i>Human Ecology</i> , <b>2010</b> , 38, 173-174	2	1
5	Mapping the scientific research on natural landscape change with rephotography. <i>Ecological Informatics</i> , <b>2021</b> , 64, 101387	4.2	1
4	Manure-induced carbon retention measured from long-term field studies in Canada. <i>Agriculture, Ecosystems and Environment</i> , <b>2021</b> , 321, 107619	5.7	1
3	Soil nitrous oxide emissions most sensitive to fertilization history during a laboratory incubation. <i>Canadian Journal of Soil Science</i> , <b>2020</b> , 100, 479-487	1.4	0
2	Modelling dry soil thermal conductivity. <i>Soil and Tillage Research</i> , <b>2021</b> , 213, 105093	6.5	0
1	Evaluation of a multi-sensor for measuring solution electrical conductivity in coir. <i>Soil Science Society of America Journal</i> , <b>2021</b> , 85, 526-533	2.5	