Per Moldrup

List of Publications by Year
in descending order

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218 papers	5,949 citations	66343 42 h-index	133252 59 g-index
218 all docs	218 docs citations	218 times ranked	4369 citing authors

#	Article	IF	Citations
1	Linking Soil Microbial Activity to Waterâ€•and Airâ€Phase Contents and Diffusivities. Soil Science Society of America Journal, 2003, 67, 156-165.	2.2	204
2	Linking air and water transport in intact soils to macropore characteristics inferred from X-ray computed tomography. Geoderma, 2015, 237-238, 9-20.	5.1	140
3	Threeâ€Porosity Model for Predicting the Gas Diffusion Coefficient in Undisturbed Soil. Soil Science Society of America Journal, 2004, 68, 750-759.	2.2	125
4	Comparison of Air and Water Permeability between Disturbed and Undisturbed Soils. Soil Science Society of America Journal, 2005, 69, 1361-1371.	2.2	103
5	Degradation of 4-Nonylphenol in Homogeneous and Nonhomogeneous Mixtures of Soil and Sewage Sludge. Environmental Science & Technology, 2001, 35, 3695-3700.	10.0	96
6	Densityâ€Corrected Models for Gas Diffusivity and Air Permeability in Unsaturated Soil. Vadose Zone Journal, 2011, 10, 226-238.	2.2	96
7	Predicting saturated hydraulic conductivity from air permeability: Application in stochastic water infiltration modeling. Water Resources Research, 1999, 35, 2387-2400.	4.2	89
8	Structureâ€Dependent Waterâ€Induced Linear Reduction Model for Predicting Gas Diffusivity and Tortuosity in Repacked and Intact Soil. Vadose Zone Journal, 2013, 12, 1-11.	2.2	83
9	Impact of long-term fertilization practice on soil structure evolution. Geoderma, 2014, 217-218, 181-189.	5.1	83
10	Spatial variability of microbial richness and diversity and relationships with soil organic carbon, texture and structure across an agricultural field. Applied Soil Ecology, 2016, 103, 44-55.	4.3	83
11	Relationship between specific surface area and the dry end of the water retention curve for soils with varying clay and organic carbon contents. Water Resources Research, 2011, 47, .	4.2	80
12	SOIL-WATER CONTENT DEPENDENCY OF WATER REPELLENCY IN SOILS. Soil Science, 2007, 172, 577-588.	0.9	78
13	A New Two-Stage Approach to predicting the soil water characteristic from saturation to oven-dryness. Journal of Hydrology, 2015, 521, 498-507.	5.4	74
14	Revealing Soil Structure and Functional Macroporosity along a Clay Gradient Using X-ray Computed Tomography. Soil Science Society of America Journal, 2013, 77, 403-411.	2.2	71
15	Water Repellency of Aggregate Size Fractions of a Volcanic Ash Soil. Soil Science Society of America Journal, 2007, 71, 1658-1666.	2.2	69
16	Effect of biochar on aerobic processes, enzyme activity, and crop yields in two sandy loam soils. Biology and Fertility of Soils, 2014, 50, 1087-1097.	4.3	67
17	Gas Transport Parameters in the Vadose Zone: Development and Tests of Power-Law Models for Air Permeability. Vadose Zone Journal, 2006, 5, 1205-1215.	2.2	66
18	Soil Specific Surface Area and Nonâ€Singularity of Soilâ€Water Retention at Low Saturations. Soil Science Society of America Journal, 2013, 77, 43-53.	2.2	64

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19	Linking Soil Microbial Activity to Water- and Air-Phase Contents and Diffusivities. Soil Science Society of America Journal, 2003, 67, 156.	2.2	63
20	Diffusionâ€Limited Mobilization and Transport of Natural Colloids in Macroporous Soil. Vadose Zone Journal, 2002, 1, 125-136.	2.2	62
21	Effect of Particle Size and Soil Compaction on Gas Transport Parameters in Variably Saturated, Sandy Soils. Vadose Zone Journal, 2009, 8, 986-995.	2.2	62
22	Direct and Indirect Short-term Effects of Biochar on Physical Characteristics of an Arable Sandy Loam. Soil Science, 2013, 178, 465-473.	0.9	62
23	Waterâ€Dispersible Colloids: Effects of Measurement Method, Clay Content, Initial Soil Matric Potential, and Wetting Rate. Vadose Zone Journal, 2004, 3, 403-412.	2.2	59
24	Excludedâ€volume expansion of Archie's law for gas and solute diffusivities and electrical and thermal conductivities in variably saturated porous media. Water Resources Research, 2010, 46, .	4.2	58
25	Characterising and linking X-ray CT derived macroporosity parameters to infiltration in soils with contrasting structures. Geoderma, 2018, 313, 82-91.	5.1	54
26	Xâ€ray CTâ€Derived Soil Characteristics Explain Varying Air, Water, and Solute Transport Properties across a Loamy Field. Vadose Zone Journal, 2016, 15, 1-13.	2.2	52
27	Temperature change affected groundwater quality in a confined marine aquifer during long-term heating and cooling. Water Research, 2016, 94, 120-127.	11.3	52
28	Gas-phase diffusivity and tortuosity of structured soils. Journal of Contaminant Hydrology, 2010, 115, 26-33.	3.3	50
29	Evaluation of theoretical and empirical water vapor sorption isotherm models for soils. Water Resources Research, 2016, 52, 190-205.	4.2	50
30	Predicting Soil-Water and Soil-Air Transport Properties and Their Effects on Soil-Vapor Extraction Efficiency. Ground Water Monitoring and Remediation, 1999, 19, 61-70.	0.8	49
31	Comparative Mapping of Soil Physical-Chemical and Structural Parameters at Field Scale to Identify Zones of Enhanced Leaching Risk. Journal of Environmental Quality, 2013, 42, 271-283.	2.0	48
32	Colloid Mobilization and Transport in Undisturbed Soil Columns. I. Pore Structure Characterization and Tritium Transport. Vadose Zone Journal, 2004, 3, 413-423.	2.2	47
33	Colloid Mobilization and Transport in Undisturbed Soil Columns. II. The Role of Colloid Dispersibility and Preferential Flow. Vadose Zone Journal, 2004, 3, 424-433.	2.2	47
34	Pore network structure linked by X-ray CT to particle characteristics and transport parameters. Soils and Foundations, 2016, 56, 676-690.	3.1	47
35	PREDICTIVE-DESCRIPTIVE MODELS FOR GAS AND SOLUTE DIFFUSION COEFFICIENTS IN VARIABLY SATURATED POROUS MEDIA COUPLED TO PORE-SIZE DISTRIBUTION. Soil Science, 2005, 170, 843-853.	0.9	46
36	A Gas Diffusivity Model Based on Airâ€Solidâ€and Waterâ€Phase Resistance in Variably Saturated Soil. Vadose Zone Journal, 2008, 7, 1276-1286.	2.2	46

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37	Phenanthrene Sorption on Biochar-Amended Soils: Application Rate, Aging, and Physicochemical Properties of Soil. Water, Air, and Soil Pollution, 2014, 225, 1.	2.4	46
38	VOC Vapor Sorption in Soil: Soil Type Dependent Model and Implications for Vapor Extraction. Journal of Environmental Engineering, ASCE, 1998, 124, 146-155.	1.4	45
39	Effects of Biochar on Air and Water Permeability and Colloid and Phosphorus Leaching in Soils from a Natural Calcium Carbonate Gradient. Journal of Environmental Quality, 2014, 43, 647-657.	2.0	45
40	Modeling Lateral Gas Transport in Soil Adjacent to Old Landfill. Journal of Environmental Engineering, ASCE, 2001, 127, 145-153.	1.4	44
41	PREDICTIVE-DESCRIPTIVE MODELS FOR GAS AND SOLUTE DIFFUSION COEFFICIENTS IN VARIABLY SATURATED POROUS MEDIA COUPLED TO PORE-SIZE DISTRIBUTION. Soil Science, 2005, 170, 854-866.	0.9	44
42	Effects of CT Number Derived Matrix Density on Preferential Flow and Transport in a Macroporous Agricultural Soil. Vadose Zone Journal, 2015, 14, 1-13.	2.2	43
43	Comparing predictive ability of laser-induced breakdown spectroscopy to visible near-infrared spectroscopy for soil property determination. Biosystems Engineering, 2017, 156, 157-172.	4.3	43
44	Relating landfill gas emissions to atmospheric pressure using numerical modelling and state-space analysis. Waste Management and Research, 2003, 21, 356-366.	3.9	42
45	Gas Diffusivity in Undisturbed Volcanic Ash Soils. Soil Science Society of America Journal, 2003, 67, 41-51.	2.2	42
46	Two-Region Extended Archie's Law Model for Soil Air Permeability and Gas Diffusivity. Soil Science Society of America Journal, 2011, 75, 795-806.	2.2	42
47	Air Permeability in Undisturbed Volcanic Ash Soils. Soil Science Society of America Journal, 2003, 67, 32-40.	2.2	41
48	PREDICTIVE-DESCRIPTIVE MODELS FOR GAS AND SOLUTE DIFFUSION COEFFICIENTS IN VARIABLY SATURATED POROUS MEDIA COUPLED TO PORE-SIZE DISTRIBUTION. Soil Science, 2005, 170, 867-880.	0.9	41
49	Gas Transport Parameters in the Vadose Zone: Gas Diffusivity in Field and Lysimeter Soil Profiles. Vadose Zone Journal, 2006, 5, 1194-1204.	2.2	39
50	The Effects of Moisture Conditions-From Wet to Hyper dry-On Visible Near-Infrared Spectra of Danish Reference Soils. Soil Science Society of America Journal, 2014, 78, 422-433.	2.2	39
51	Density of macropores as related to soil and earthworm community parameters in cultivated grasslands. Geoderma, 2011, 162, 319-326.	5.1	38
52	Field Application of a Portable Air Permeameter to Characterize Spatial Variability in Air and Water Permeability. Vadose Zone Journal, 2003, 2, 618-626.	2.2	37
53	Effects of dry bulk density and particle size fraction on gas transport parameters in variably saturated landfill cover soil. Waste Management, 2011, 31, 2464-2472.	7.4	37
54	Soil microbial and physical properties and their relations along a steep copper gradient. Agriculture, Ecosystems and Environment, 2012, 159, 9-18.	5.3	37

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55	PREDICTING SATURATED AND UNSATURATED HYDRAULIC CONDUCTIVITY IN UNDISTURBED SOILS FROM SOIL WATER CHARACTERISTICS. Soil Science, 1999, 164, 877-887.	0.9	37
56	Air Permeability in Undisturbed Volcanic Ash Soils. Soil Science Society of America Journal, 2003, 67, 32.	2.2	37
57	Effects of Vapor Extraction on Contaminant Flux to Atmosphere and Ground Water. Journal of Environmental Engineering, ASCE, 1996, 122, 700-706.	1.4	35
58	X-ray CT and Laboratory Measurements on Glacial Till Subsoil Cores. Soil Science, 2013, 178, 359-368.	0.9	35
59	Simultaneous Loss of Soil Biodiversity and Functions along a Copper Contamination Gradient: When Soil Goes to Sleep. Soil Science Society of America Journal, 2014, 78, 1239-1250.	2.2	35
60	Quantifying vertical stress transmission and compaction-induced soil structure using sensor mat and X-ray computed tomography. Soil and Tillage Research, 2016, 158, 110-122.	5.6	35
61	Gas Permeability and Diffusivity in Undisturbed Soil: SVE Implications. Journal of Environmental Engineering, ASCE, 1998, 124, 979-986.	1.4	34
62	Variable Pore Connectivity Factor Model for Gas Diffusivity in Unsaturated, Aggregated Soil. Vadose Zone Journal, 2008, 7, 397-405.	2.2	34
63	Colloid and Phosphorus Leaching From Undisturbed Soil Cores Sampled Along a Natural Clay Gradient. Soil Science, 2011, 176, 399-406.	0.9	33
64	Prediction of biopore- and matrix-dominated flow from X-ray CT-derived macropore network characteristics. Hydrology and Earth System Sciences, 2016, 20, 4017-4030.	4.9	33
65	Organic carbon content controls the severity of water repellency and the critical moisture level across New Zealand pasture soils. Geoderma, 2019, 338, 281-290.	5.1	33
66	Predicting Soil Organic Carbon at Field Scale Using a National Soil Spectral Library. Journal of Near Infrared Spectroscopy, 2013, 21, 213-222.	1.5	32
67	Unified Measurement System for the Gas Dispersion Coefficient, Air Permeability, and Gas Diffusion Coefficient in Variably Saturated Soil. Soil Science Society of America Journal, 2009, 73, 1921-1930.	2.2	31
68	Linking Soil Physical Parameters Along a Density Gradient in a Loess-Soil Long-Term Experiment. Soil Science, 2012, 177, 1-11.	0.9	31
69	Prediction of the glyphosate sorption coefficient across two loamy agricultural fields. Geoderma, 2015, 259-260, 224-232.	5.1	31
70	Complete Soil Texture is Accurately Predicted by Visible Near-Infrared Spectroscopy. Soil Science Society of America Journal, 2017, 81, 758-769.	2.2	31
71	Predicting the dry bulk density of soils across Denmark: Comparison of single-parameter, multi-parameter, and visâ€“NIR based models. Geoderma, 2020, 361, 114080.	5.1	31
72	Gas Diffusivity in Undisturbed Volcanic Ash Soils. Soil Science Society of America Journal, 2003, 67, 41.	2.2	31

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73	Extreme Compaction Effects on Gas Transport Parameters and Estimated Climate Gas Exchange for a Landfill Final Cover Soil. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 653-662.	3.0	30
74	Soil-water repellency characteristic curves for soil profiles with organic carbon gradients. Geoderma, 2016, 264, 150-159.	5.1	30
75	Three-Porosity Model for Predicting the Gas Diffusion Coefficient in Undisturbed Soil. Soil Science Society of America Journal, 2004, 68, 750.	2.2	30
76	SPATIAL AND TEMPORAL DYNAMICS OF AIR PERMEABILITY IN A CONSTRUCTED FIELD. Soil Science, 2001, 166, 153-162.	0.9	29
77	Generalized Densityâ€Corrected Model for Gas Diffusivity in Variably Saturated Soils. Soil Science Society of America Journal, 2011, 75, 1315-1329.	2.2	29
78	Evaluation of a Fully Automated Analyzer for Rapid Measurement of Water Vapor Sorption Isotherms for Applications in Soil Science. Soil Science Society of America Journal, 2014, 78, 754-760.	2.2	29
79	Quantification of Soil Pore Network Complexity with X-ray Computed Tomography and Gas Transport Measurements. Soil Science Society of America Journal, 2015, 79, 1577-1589.	2.2	29
80	Visibleâ€“Nearâ€Infrared Spectroscopy Can Predict the Clay/Organic Carbon and Mineral Fines/Organic Carbon Ratios. Soil Science Society of America Journal, 2016, 80, 1486-1495.	2.2	29
81	Visibleâ€Nearâ€Infrared Spectroscopy Prediction of Soil Characteristics as Affected by Soilâ€Water Content. Soil Science Society of America Journal, 2018, 82, 1333-1346.	2.2	29
82	Colloid and Bromide Transport in Undisturbed Soil Columns: Application of Two-Region Model. Vadose Zone Journal, 2006, 5, 649-656.	2.2	28
83	PREDICTIVE-DESCRIPTIVE MODELS FOR GAS AND SOLUTE DIFFUSION COEFFICIENTS IN VARIABLY SATURATED POROUS MEDIA COUPLED TO PORE-SIZE DISTRIBUTION. Soil Science, 2007, 172, 741-750.	0.9	28
84	Air permeability of compost as related to bulk density and volumetric air content. Waste Management and Research, 2007, 25, 343-351.	3.9	28
85	Hierarchical, Bimodal Model for Gas Diffusivity in Aggregated, Unsaturated Soils. Soil Science Society of America Journal, 2010, 74, 481-491.	2.2	28
86	Linking Particle and Pore Size Distribution Parameters to Soil Gas Transport Properties. Soil Science Society of America Journal, 2012, 76, 18-27.	2.2	28
87	Clay content and mineralogy, organic carbon and cation exchange capacity affect water vapour sorption hysteresis of soil. European Journal of Soil Science, 2020, 71, 204-214.	3.9	28
88	Soil Physical Constraints on Intrinsic Biodegradation of Petroleum Vapors in a Layered Subsurface. Vadose Zone Journal, 2010, 9, 137.	2.2	27
89	Thermal properties of boring core samples from the Kanto area, Japan: Development of predictive models for thermal conductivity and diffusivity. Soils and Foundations, 2014, 54, 116-125.	3.1	27
90	Leaching of Glyphosate and Aminomethylphosphonic Acid from an Agricultural Field over a Twelveâ€Year Period. Vadose Zone Journal, 2014, 13, 1-18.	2.2	27

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91	Soil Properties Control Glyphosate Sorption in Soils Amended with Birch Wood Biochar. Water, Air, and Soil Pollution, 2016, 227, 1.	2.4	27
92	Sample area of two- and three-rod time domain reflectometry probes. Water Resources Research, 2003, 39, .	4.2	26
93	Gas diffusion-derived tortuosity governs saturated hydraulic conductivity in sandy soils. Journal of Hydrology, 2014, 512, 388-396.	5.4	26
94	Rapid and Fully Automated Measurement of Water Vapor Sorption Isotherms: New Opportunities for Vadose Zone Research. Vadose Zone Journal, 2014, 13, 1-7.	2.2	25
95	Colloid Mobilization and Transport in Undisturbed Soil Columns. I. Pore Structure Characterization and Tritium Transport. Vadose Zone Journal, 2004, 3, 413-423.	2.2	25
96	Twoâ€Region Model for Soil Water Repellency as a Function of Matric Potential and Water Content. Vadose Zone Journal, 2010, 9, 719-730.	2.2	24
97	Macropores and Macropore Transport. Soil Science, 2012, 177, 535-542.	0.9	23
98	Correlating Gas Transport Parameters and X-Ray Computed Tomography Measurements in Porous Media. Soil Science, 2013, 178, 60-68.	0.9	23
99	Effects of Past Copper Contamination and Soil Structure on Copper Leaching from Soil. Journal of Environmental Quality, 2013, 42, 1852-1862.	2.0	23
100	Combining Xâ€ray Computed Tomography and Visible Nearâ€Infrared Spectroscopy for Prediction of Soil Structural Properties. Vadose Zone Journal, 2018, 17, 1-13.	2.2	23
101	Characterizing Timeâ€Dependent Contact Angles for Sands Hydrophobized with Oleic and Stearic Acids. Vadose Zone Journal, 2012, 11, .	2.2	22
102	Water-Dispersible Colloids: Effects of Measurement Method, Clay Content, Initial Soil Matric Potential, and Wetting Rate. Vadose Zone Journal, 2004, 3, 403-412.	2.2	21
103	SORPTION AND LEACHING OF SHORT-TERM-AGED PAHS IN EIGHT EUROPEAN SOILS. Soil Science, 2008, 173, 13-24.	0.9	21
104	Characterization of water repellency for hydrophobized grains with different geometries and sizes. Environmental Earth Sciences, 2015, 74, 5525-5539.	2.7	21
105	Water and solute transport in agricultural soils predicted by volumetric clay and silt contents. Journal of Contaminant Hydrology, 2016, 192, 194-202.	3.3	21
106	Effects of Biochar on Dispersibility of Colloids in Agricultural Soils. Journal of Environmental Quality, 2017, 46, 143-152.	2.0	21
107	Visibleâ€“Near-Infrared Spectroscopy can predict Mass Transport of Dissolved Chemicals through Intact Soil. Scientific Reports, 2018, 8, 11188.	3.3	21
108	Predicting glyphosate sorption across New Zealand pastoral soils using basic soil properties or Visâ€“NIR spectroscopy. Geoderma, 2020, 360, 114009.	5.1	21

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109	USEFUL SOIL-WATER REPELLENCY INDICES. Soil Science, 2008, 173, 747-757.	0.9	20
110	The Solute Diffusion Coefficient in Variably Compacted, Unsaturated Volcanic Ash Soils. Vadose Zone Journal, 2009, 8, 942-952.	2.2	20
111	Field-Scale Predictions of Soil Contaminant Sorption Using Visibleâ€“Near Infrared Spectroscopy. Journal of Near Infrared Spectroscopy, 2016, 24, 281-291.	1.5	20
112	COUPLING DIAZINON VOLATILIZATION AND WATER EVAPORATION IN UNSATURATED SOILS: I. WATER TRANSPORT. Soil Science, 2000, 165, 681-689.	0.9	20
113	Colloid Mobilization and Transport in Undisturbed Soil Columns. II. The Role of Colloid Dispersibility and Preferential Flow. Vadose Zone Journal, 2004, 3, 424-433.	2.2	20
114	GAS DIFFUSIVITY AND AIR PERMEABILITY IN A VOLCANIC ASH SOIL PROFILE. Soil Science, 2007, 172, 432-443.	0.9	19
115	GAS TRANSPORT PARAMETERS ALONG FIELD TRANSECTS OF A VOLCANIC ASH SOIL. Soil Science, 2007, 172, 3-16.	0.9	19
116	Thermal Properties of Peaty Soils: Effects of Liquidâ€Phase Impedance Factor and Shrinkage. Vadose Zone Journal, 2012, 11, .	2.2	19
117	Colloid Release From Differently Managed Loess Soil. Soil Science, 2012, 177, 301-309.	0.9	19
118	Pore Structure of Natural and Regenerated Soil Aggregates: An X-Ray Computed Tomography Analysis. Soil Science Society of America Journal, 2014, 78, 377-386.	2.2	19
119	Pore Structure Characteristics After 2 Years of Biochar Application to a Sandy Loam Field. Soil Science, 2015, 180, 41-46.	0.9	19
120	Temperature effects on solute diffusion and adsorption in differently compacted kaolin clay. Environmental Earth Sciences, 2016, 75, 1.	2.7	19
121	Assessing Soil Water Repellency of a Sandy Field with Visible near Infrared Spectroscopy. Journal of Near Infrared Spectroscopy, 2016, 24, 215-224.	1.5	19
122	Predicting the Campbell Soil Water Retention Function: Comparing Visibleâ€“Nearâ€Infrared Spectroscopy with Classical Pedotransfer Function. Vadose Zone Journal, 2018, 17, 1-12.	2.2	19
123	ESTIMATING SATURATED HYDRAULIC CONDUCTIVITY AND AIR PERMEABILITY FROM SOIL PHYSICAL PROPERTIES USING STATE-SPACE ANALYSIS. Soil Science, 2003, 168, 311-320.	0.9	18
124	Organic Matter Fraction Dependent Model for Predicting the Gas Diffusion Coefficient in Variably Saturated Soils. Vadose Zone Journal, 2012, 11, .	2.2	18
125	Comparison of Cation Exchange Capacity Estimated from Visâ€“NIR Spectral Reflectance Data and a Pedotransfer Function. Vadose Zone Journal, 2019, 18, 1-8.	2.2	18
126	Sorption of Phenanthrene on Agricultural Soils. Water, Air, and Soil Pollution, 2013, 224, 1.	2.4	17

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127	Soil Specific Surface Area Determination by Visible Nearâ€Infrared Spectroscopy. Soil Science Society of America Journal, 2018, 82, 1046-1056.	2.2	17
128	Variability of soil potential for biodegradation of petroleum hydrocarbons in a heterogeneous subsurface. Journal of Hazardous Materials, 2010, 179, 573-580.	12.4	16
129	Prediction of the Soil Water Characteristic from Soil Particle Volume Fractions. Soil Science Society of America Journal, 2012, 76, 1946-1956.	2.2	16
130	Water Retention, Gas Transport, and Pore Network Complexity during Short-Term Regeneration of Soil Structure. Soil Science Society of America Journal, 2013, 77, 1965-1976.	2.2	16
131	Estimating Atterberg limits of soils from hygroscopic water content. Geoderma, 2021, 381, 114698.	5.1	16
132	A new two-step stochastic modeling approach: Application to water transport in a spatially variable unsaturated soil. Water Resources Research, 1998, 34, 1909-1918.	4.2	15
133	Diffusion Aspects of Designing Porous Growth Media for Earth and Space. Soil Science Society of America Journal, 2012, 76, 1564-1578.	2.2	15
134	Stochastic analyses of field-scale pesticide leaching risk as influenced by spatial variability in physical and biochemical parameters. Water Resources Research, 2000, 36, 959-970.	4.2	14
135	A Simple Beta-Function Model for Soil-Water Repellency as a Function of Water and Organic Carbon Contents. Soil Science, 2010, 175, 461-468.	0.9	14
136	Predicting Volatile Organic Vapor Sorption from Soil Specific Surface Area and Texture. Journal of Environmental Quality, 2000, 29, 1642-1649.	2.0	13
137	Linking landfill hydrology and leachate chemical composition at a controlled municipal landfill (KÃ¥strup, Denmark) using state-space analysis. Waste Management and Research, 2002, 20, 445-456.	3.9	13
138	TIME DOMAIN REFLECTOMETRY DEVELOPMENTS IN SOIL SCIENCE: I. UNBALANCED TWO-ROD PROBE SPATIAL SENSITIVITY AND SAMPLING VOLUME. Soil Science, 2003, 168, 77-83.	0.9	13
139	Soil Constituent Facilitated Transport of Phosphorus from a High-P Surface Soil. Soils and Foundations, 2003, 43, 105-114.	3.1	13
140	Linear Model to Predict Soil-Gas Diffusivity from Two Soil-Water Retention Points in Unsaturated Volcanic Ash Soils. Soils and Foundations, 2008, 48, 397-406.	3.1	13
141	Modeling Air Permeability in Variably Saturated Soil from Two Natural Clay Gradients. Soil Science Society of America Journal, 2013, 77, 362-371.	2.2	13
142	Effects of Soil Bulk Density on Gas Transport Parameters and Poreâ€Network Properties across a Sandy Field Site. Vadose Zone Journal, 2015, 14, 1-12.	2.2	13
143	Effects of Flow Rate and Gas Species on Microbubble and Nanobubble Transport in Porous Media. Journal of Environmental Engineering, ASCE, 2017, 143, .	1.4	13
144	Vadose Zone Biodegradation of Benzene Vapors in Repacked and Undisturbed Soil Cores. Vadose Zone Journal, 2012, 11, .	2.2	13

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145	Nonsingularity of Naphthalene Sorption in Soil. Soil Science Society of America Journal, 2001, 65, 1622-1633.	2.2	12
146	Characterization of Thermal, Hydraulic, and Gas Diffusion Properties in Variably Saturated Sand Grades. Vadose Zone Journal, 2016, 15, 1-11.	2.2	12
147	Moisture-dependent Water Repellency of Greenlandic Cultivated Soils. Geoderma, 2021, 402, 115189.	5.1	12
148	Comparison of Naphthalene Diffusion and Nonequilibrium Adsorption-Desorption Experiments. Soil Science Society of America Journal, 2003, 67, 765.	2.2	12
149	Transverse sample area of two- and three-rod time domain reflectometry probes: Electrical conductivity. Water Resources Research, 2003, 39, .	4.2	11
150	Metal-coated printed circuit board time domain reflectometry probes for measuring water and solute transport in soil. Water Resources Research, 2003, 39, .	4.2	11
151	Bimodal Probability Law Model for Unified Description of Water Retention, Air and Water Permeability, and Gas Diffusivity in Variably Saturated Soil. Vadose Zone Journal, 2006, 5, 1119-1128.	2.2	11
152	Effects of Soil Compaction and Organic Carbon Content on Preferential Flow in Loamy Field Soils. Soil Science, 2015, 180, 10-20.	0.9	11
153	Effect of long-term irrigation and tillage practices on X-ray CT and gas transport derived pore-network characteristics. Soil Research, 2019, 57, 657.	1.1	11
154	Combining Visibleâ˜Nearâ€Infrared and Pedotransfer Functions for Parameterization of Tile Drain Flow Simulations. Vadose Zone Journal, 2019, 18, 1-12.	2.2	11
155	Compression and rebound characteristics of agricultural sandy pasture soils from South Greenland. Geoderma, 2020, 380, 114608.	5.1	11
156	Predicting Air Permeability in Undisturbed, Subsurface Sandy Soils from Air-Filled Porosity. Journal of Environmental Engineering, ASCE, 2007, 133, 995-1001.	1.4	10
157	Unified measurement system with suction control for measuring hysteresis in soilâ€gas transport parameters. Water Resources Research, 2012, 48, .	4.2	10
158	Automated rainfall simulator for variable rainfall on urban green areas. Hydrological Processes, 2019, 33, 3364-3377.	2.6	10
159	Estimating Soil Particle Density using Visible Nearâ€Infrared Spectroscopy and a Simple, Twoâ€compartment Pedotransfer Function. Soil Science Society of America Journal, 2019, 83, 37-47.	2.2	10
160	Runoff modelling at two field slopes: use ofin situ measurements of air permeability to characterize spatial variability of saturated hydraulic conductivity. Hydrological Processes, 2004, 18, 1009-1026.	2.6	9
161	LINKING THE GARDNER AND CAMPBELL MODELS FOR WATER RETENTION AND HYDRAULIC CONDUCTIVITY IN NEAR-SATURATED SOIL. Soil Science, 2006, 171, 573-584.	0.9	9
162	Gas Diffusivityâ€Based Design and Characterization of Greenhouse Growth Substrates. Vadose Zone Journal, 2013, 12, 1-13.	2.2	9

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163	The Relation between Soil Water Repellency and Water Content Can Be Predicted by Visâ€NIR Spectroscopy. Soil Science Society of America Journal, 2019, 83, 1616-1627.	2.2	9
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