

Dani Or

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3945079/publications.pdf>

Version: 2024-02-01

345
papers

18,471
citations

11651
70
h-index

20358
116
g-index

386
all docs

386
docs citations

386
times ranked

13169
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Advances in Dielectric and Electrical Conductivity Measurement in Soils Using Time Domain Reflectometry. Vadose Zone Journal, 2003, 2, 444-475.	2.2	729
2	Physical constraints affecting bacterial habitats and activity in unsaturated porous media – a review. Advances in Water Resources, 2007, 30, 1505-1527.	3.8	513
3	Adsorption and capillary condensation in porous media: Liquid retention and interfacial configurations in angular pores. Water Resources Research, 1999, 35, 1949-1964.	4.2	505
4	Modeling Soil Processes: Review, Key Challenges, and New Perspectives. Vadose Zone Journal, 2016, 15, 1-57.	2.2	445
5	Characteristic lengths affecting evaporative drying of porous media. Physical Review E, 2008, 77, 056309.	2.1	358
6	Biophysical processes supporting the diversity of microbial life in soil. FEMS Microbiology Reviews, 2017, 41, 599-623.	8.6	314
7	Advances in Soil Evaporation Physics – A Review. Vadose Zone Journal, 2013, 12, 1-16.	2.2	286
8	Time domain reflectometry measurement principles and applications. Hydrological Processes, 2002, 16, 141-153.	2.6	278
9	Hydraulic conductivity of variably saturated porous media: Film and corner flow in angular pore space. Water Resources Research, 2001, 37, 1257-1276.	4.2	265
10	Liquid retention and interfacial area in variably saturated porous media: Upscaling from single-pore to sample-scale model. Water Resources Research, 1999, 35, 3591-3605.	4.2	258
11	Water films and scaling of soil characteristic curves at low water contents. Water Resources Research, 2005, 41, .	4.2	253
12	Temperature effects on soil bulk dielectric permittivity measured by time domain reflectometry: A physical model. Water Resources Research, 1999, 35, 371-383.	4.2	227
13	Hydraulic redistribution in a stand of <i>Artemisia tridentata</i> : evaluation of benefits to transpiration assessed with a simulation model. Oecologia, 2002, 130, 173-184.	2.0	219
14	Temperature effects on soil bulk dielectric permittivity measured by time domain reflectometry: Experimental evidence and hypothesis development. Water Resources Research, 1999, 35, 361-369.	4.2	216
15	Quantifying the role of vegetation in slope stability: A case study in Tuscany (Italy). Ecological Engineering, 2010, 36, 285-291.	3.6	209
16	Historical increase in agricultural machinery weights enhanced soil stress levels and adversely affected soil functioning. Soil and Tillage Research, 2019, 194, 104293.	5.6	204
17	Quantifying lateral root reinforcement in steep slopes – from a bundle of roots to tree stands. Earth Surface Processes and Landforms, 2010, 35, 354-367.	2.5	199
18	Hydration-controlled bacterial motility and dispersal on surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14369-14372.	7.1	182

#	ARTICLE	IF	CITATIONS
19	Extracellular Polymeric Substances Affecting Pore-Scale Hydrologic Conditions for Bacterial Activity in Unsaturated Soils. Vadose Zone Journal, 2007, 6, 298-305.	2.2	178
20	Drying front and water content dynamics during evaporation from sand delineated by neutron radiography. Water Resources Research, 2008, 44, .	4.2	171
21	Stomatal Control and Leaf Thermal and Hydraulic Capacitances under Rapid Environmental Fluctuations. PLoS ONE, 2013, 8, e54231.	2.5	156
22	Root zone solute dynamics under drip irrigation: A review. Plant and Soil, 2000, 222, 163-190.	3.7	155
23	Coupling of evaporative fluxes from drying porous surfaces with air boundary layer: Characteristics of evaporation from discrete pores. Water Resources Research, 2012, 48, .	4.2	152
24	Balancing water scarcity and quality for sustainable irrigated agriculture. Water Resources Research, 2015, 51, 3419-3436.	4.2	140
25	Soil structureÂis an important omission in Earth System Models. Nature Communications, 2020, 11, 522.	12.8	138
26	The physical structure of soil: Determinant and consequence of trophic interactions. Soil Biology and Biochemistry, 2020, 148, 107876.	8.8	137
27	Sources and characteristics of acoustic emissions from mechanically stressed geologic granular media â€” A review. Earth-Science Reviews, 2012, 112, 97-114.	9.1	133
28	Effects of Maxwell-Wagner polarization on soil complex dielectric permittivity under variable temperature and electrical conductivity. Water Resources Research, 2006, 42, .	4.2	132
29	What determines drying rates at the onset of diffusion controlled stageâ€2 evaporation from porous media?. Water Resources Research, 2011, 47, .	4.2	130
30	Flow in unsaturated fractured porous media: Hydraulic conductivity of rough surfaces. Water Resources Research, 2000, 36, 1165-1177.	4.2	129
31	Modeling post-tillage soil structural dynamics: a review. Soil and Tillage Research, 2002, 64, 41-59.	5.6	129
32	Rheological Properties of Wet Soils and Clays under Steady and Oscillatory Stresses. Soil Science Society of America Journal, 2001, 65, 624-637.	2.2	128
33	Critical evaluation of enhancement factors for vapor transport through unsaturated porous media. Water Resources Research, 2009, 45, .	4.2	128
34	Root distribution and water uptake patterns of corn under surface and subsurface drip irrigation. Plant and Soil, 1998, 206, 123-136.	3.7	127
35	Nonlinear Parameter Estimation Using Spreadsheet Software. Journal of Natural Resources and Life Sciences Education, 1998, 27, 13-19.	0.2	127
36	Rootâ€soil mechanical interactions during pullout and failure of root bundles. Journal of Geophysical Research, 2010, 115, .	3.3	126

#	ARTICLE	IF	CITATIONS
37	Spatial organization of bacterial populations in response to oxygen and carbon counter-gradients in pore networks. <i>Nature Communications</i> , 2018, 9, 769.	12.8	125
38	The concept of field capacity revisited: Defining intrinsic static and dynamic criteria for soil internal drainage dynamics. <i>Water Resources Research</i> , 2014, 50, 4787-4802.	4.2	120
39	Microbial community dynamics in soil aggregates shape biogeochemical gas fluxes from soil profiles “upscaling an aggregate biophysical model. <i>Global Change Biology</i> , 2016, 22, 3141-3156.	9.5	120
40	Lattice Boltzmann method for modeling liquid-vapor interface configurations in porous media. <i>Water Resources Research</i> , 2004, 40, .	4.2	118
41	Conceptual and Parametric Representation of Soil Hydraulic Properties: A Review. <i>Vadose Zone Journal</i> , 2013, 12, 1-20.	2.2	118
42	Interfacial jumps and pressure bursts during fluid displacement in interacting irregular capillaries. <i>Journal of Colloid and Interface Science</i> , 2012, 377, 406-415.	9.4	114
43	Modeling the dynamics of the soil pore-size distribution. <i>Soil and Tillage Research</i> , 2002, 64, 61-78.	5.6	108
44	Monitoring and prediction in early warning systems for rapid mass movements. <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 905-917.	3.6	107
45	Suppressing viscous fingering in structured porous media. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4833-4838.	7.1	107
46	Cavitation during desaturation of porous media under tension. <i>Water Resources Research</i> , 2002, 38, 19-1-19-14.	4.2	102
47	Standardizing Characterization of Electromagnetic Water Content Sensors: Part 1. Methodology. <i>Vadose Zone Journal</i> , 2005, 4, 1048-1058.	2.2	99
48	A Review of Geophysical Methods for Soil Structure Characterization. <i>Reviews of Geophysics</i> , 2018, 56, 672-697.	23.0	97
49	Stochastic model for posttillage soil pore space evolution. <i>Water Resources Research</i> , 2000, 36, 1641-1652.	4.2	96
50	Characteristics of evaporation from partially wettable porous media. <i>Water Resources Research</i> , 2009, 45, .	4.2	94
51	Evaporation rates across a convective air boundary layer are dominated by diffusion. <i>Water Resources Research</i> , 2013, 49, 1602-1610.	4.2	92
52	A Parametric Model for Two-Dimensional Water Uptake Intensity by Corn Roots under Drip Irrigation. <i>Soil Science Society of America Journal</i> , 1996, 60, 1039-1049.	2.2	91
53	Hydration and diffusion processes shape microbial community organization and function in model soil aggregates. <i>Water Resources Research</i> , 2015, 51, 9804-9827.	4.2	91
54	Evaporation and capillary coupling across vertical textural contrasts in porous media. <i>Physical Review E</i> , 2009, 80, 046318.	2.1	90

#	ARTICLE	IF	CITATIONS
55	Spatial characterization of root reinforcement at stand scale: Theory and case study. <i>Geomorphology</i> , 2012, 171-172, 190-200.	2.6	88
56	Scaling of capillary, gravity and viscous forces affecting flow morphology in unsaturated porous media. <i>Advances in Water Resources</i> , 2008, 31, 1129-1136.	3.8	84
57	Synthetic Microbial Ecology: Engineering Habitats for Modular Consortia. <i>Frontiers in Microbiology</i> , 2017, 8, 1125.	3.5	84
58	Dynamics of soil aggregate coalescence governed by capillary and rheological processes. <i>Water Resources Research</i> , 2000, 36, 367-379.	4.2	83
59	Cell-to-cell bacterial interactions promoted by drier conditions on soil surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9791-9796.	7.1	83
60	Hydromechanical triggering of landslides: From progressive local failures to mass release. <i>Water Resources Research</i> , 2012, 48, .	4.2	82
61	Hydraulic functions for swelling soils: pore scale considerations. <i>Journal of Hydrology</i> , 2003, 272, 50-71.	5.4	81
62	Microbial community response to hydration-desiccation cycles in desert soil. <i>Scientific Reports</i> , 2017, 7, 45735.	3.3	80
63	Aqueous films limit bacterial cell motility and colony expansion on partially saturated rough surfaces. <i>Environmental Microbiology</i> , 2010, 12, 1363-1373.	3.8	79
64	Evaporation from layered porous media. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	79
65	Effects of hydrophobic layers on evaporation from porous media. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	78
66	An interdisciplinary approach towards improved understanding of soil deformation during compaction. <i>Soil and Tillage Research</i> , 2013, 128, 61-80.	5.6	78
67	Soil bacterial diversity mediated by microscale aqueous-phase processes across biomes. <i>Nature Communications</i> , 2020, 11, 116.	12.8	78
68	Continuous Soil Carbon Dioxide and Oxygen Measurements and Estimation of Gradient-Based Gaseous Flux. <i>Vadose Zone Journal</i> , 2005, 4, 1161-1169.	2.2	77
69	Hydration dynamics promote bacterial coexistence on rough surfaces. <i>ISME Journal</i> , 2013, 7, 395-404.	9.8	76
70	Frequency analysis of time-domain reflectometry (TDR) with application to dielectric spectroscopy of soil constituents. <i>Geophysics</i> , 1999, 64, 707-718.	2.6	75
71	Evolution of soil wetting patterns preceding a hydrologically induced landslide inferred from electrical resistivity survey and point measurements of volumetric water content and pore water pressure. <i>Water Resources Research</i> , 2013, 49, 7992-8004.	4.2	75
72	A framework for modelling soil structure dynamics induced by biological activity. <i>Global Change Biology</i> , 2020, 26, 5382-5403.	9.5	75

#	ARTICLE	IF	CITATIONS
73	Pullout tests of root analogs and natural root bundles in soil: Experiments and modeling. Journal of Geophysical Research, 2011, 116, .	3.3	74
74	Microbial dispersal in unsaturated porous media: Characteristics of motile bacterial cell motions in unsaturated angular pore networks. Water Resources Research, 2014, 50, 7406-7429.	4.2	73
75	Unsaturated Hydraulic Conductivity of Structured Porous Media: A Review of Liquid Configuration-Based Models. Vadose Zone Journal, 2002, 1, 14-37.	2.2	71
76	Natural and managed soil structure: On the fragile scaffolding for soil functioning. Soil and Tillage Research, 2021, 208, 104912.	5.6	70
77	Geometrical factors and interfacial processes affecting complex dielectric permittivity of partially saturated porous media. Water Resources Research, 2006, 42, .	4.2	68
78	Soil Penetration by Earthworms and Plant Roots—Mechanical Energetics of Bioturbation of Compacted Soils. PLoS ONE, 2015, 10, e0128914.	2.5	67
79	Wind increases leaf water use efficiency. Plant, Cell and Environment, 2016, 39, 1448-1459.	5.7	66
80	Surface Evaporative Capacitance: How Soil Type and Rainfall Characteristics Affect Global-Scale Surface Evaporation. Water Resources Research, 2019, 55, 519-539.	4.2	66
81	Fiber bundle model for multiscale modeling of hydromechanical triggering of shallow landslides. Water Resources Research, 2009, 45, .	4.2	65
82	An analytical fiber bundle model for pullout mechanics of root bundles. Journal of Geophysical Research, 2011, 116, .	3.3	65
83	Lattice Boltzmann method for homogeneous and heterogeneous cavitation. Physical Review E, 2005, 71, 046703.	2.1	64
84	Liquid-phase continuity and solute concentration dynamics during evaporation from porous media: Pore-scale processes near vaporization surface. Physical Review E, 2010, 81, 046308.	2.1	64
85	Spatial statistical modeling of shallow landslides—Validating predictions for different landslide inventories and rainfall events. Geomorphology, 2011, 133, 11-22.	2.6	64
86	Effects of stomata clustering on leaf gas exchange. New Phytologist, 2015, 207, 1015-1025.	7.3	64
87	Long-Term Soil Structure Observatory for Monitoring Post-Compaction Evolution of Soil Structure. Vadose Zone Journal, 2017, 16, 1-16.	2.2	63
88	Water balance for Great Basin phreatophytes derived from eddy covariance, soil water, and water table measurements. Journal of Hydrology, 2006, 329, 595-605.	5.4	61
89	Mechanical interactions between neighbouring roots during pullout tests. Plant and Soil, 2013, 367, 391-406.	3.7	61
90	A Review of Advances in Dielectric and Electrical Conductivity Measurement in Soils Using Time Domain Reflectometry. Vadose Zone Journal, 2003, 2, 444-475.	2.2	60

#	ARTICLE	IF	CITATIONS
91	Soil Texture Effects on Surface Resistance to Bare Soil Evaporation. Geophysical Research Letters, 2018, 45, 10,398.	4.0	59
92	Infrared thermography of evaporative fluxes and dynamics of salt deposition on heterogeneous porous surfaces. Water Resources Research, 2011, 47, .	4.2	58
93	Colloid mobilization by fluid displacement fronts in channels. Journal of Colloid and Interface Science, 2013, 406, 44-50.	9.4	58
94	Evaporation suppression from water reservoirs: Efficiency considerations of partial covers. Water Resources Research, 2011, 47, .	4.2	57
95	Inertial forces affect fluid front displacement dynamics in a pore-throat network model. Physical Review E, 2014, 90, 023019.	2.1	57
96	Microgravity effects on water flow and distribution in unsaturated porous media: Analyses of flight experiments. Water Resources Research, 1999, 35, 929-942.	4.2	56
97	Rainfall-triggered shallow landslides at catchment scale: Threshold mechanics-based modeling for abruptness and localization. Water Resources Research, 2013, 49, 6266-6285.	4.2	56
98	Infiltration from the Pedon to Global Grid Scales: An Overview and Outlook for Land Surface Modeling. Vadose Zone Journal, 2019, 18, 1-53.	2.2	56
99	Ground-penetrating radar measurement of soil water content dynamics using a suspended horn antenna. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 1695-1705.	6.3	55
100	On the effective measurement frequency of time domain reflectometry in dispersive and nonconductive dielectric materials. Water Resources Research, 2005, 41, .	4.2	55
101	Interfacial interactions and colloid retention under steady flows in a capillary channel. Journal of Colloid and Interface Science, 2006, 303, 171-184.	9.4	55
102	Frequency Domain Analysis for Extending Time Domain Reflectometry Water Content Measurement in Highly Saline Soils. Soil Science Society of America Journal, 2004, 68, 1568-1577.	2.2	54
103	Shear-induced force fluctuations and acoustic emissions in granular material. Journal of Geophysical Research: Solid Earth, 2013, 118, 6086-6098.	3.4	54
104	Modeling and analysis of evaporation processes from porous media on the REV scale. Water Resources Research, 2014, 50, 1059-1079.	4.2	54
105	A Review of Advances in Dielectric and Electrical Conductivity Measurement in Soils Using Time Domain Reflectometry. Vadose Zone Journal, 2003, 2, 444.	2.2	54
106	Wetting-induced soil structural changes: The theory of liquid phase sintering. Water Resources Research, 1996, 32, 3041-3049.	4.2	53
107	Annual mesoscale study of water balance in a Great Basin heterogeneous desert valley. Journal of Hydrology, 1997, 191, 223-244.	5.4	53
108	Pore scale mechanisms for enhanced vapor transport through partially saturated porous media. Water Resources Research, 2012, 48, .	4.2	53

#	ARTICLE	IF	CITATIONS
109	A generalized complementary relationship between actual and potential evaporation defined by a reference surface temperature. <i>Water Resources Research</i> , 2016, 52, 385-406.	4.2	53
110	Fiber-optic high-resolution acoustic emission (AE) monitoring of slope failure. <i>Landslides</i> , 2017, 14, 1139-1146.	5.4	52
111	WATER AND SOLUTE DYNAMICS UNDER A DRIP-IRRIGATED CROP: EXPERIMENTS AND ANALYTICAL MODEL. <i>Transactions of the American Society of Agricultural Engineers</i> , 2000, 43, 1597-1608.	0.9	51
112	Evaporation from porous surfaces into turbulent airflows: Coupling eddy characteristics with pore scale vapor diffusion. <i>Water Resources Research</i> , 2013, 49, 8432-8442.	4.2	51
113	Effects of soil spatial variability at the hillslope and catchment scales on characteristics of rainfall-induced landslides. <i>Water Resources Research</i> , 2016, 52, 1781-1799.	4.2	51
114	Cooperation in carbon source degradation shapes spatial self-organization of microbial consortia on hydrated surfaces. <i>Scientific Reports</i> , 2017, 7, 43726.	3.3	51
115	Pore-Scale Analysis of Evaporation and Condensation Dynamics in Porous Media. <i>Langmuir</i> , 2010, 26, 13924-13936.	3.5	49
116	Linking rainfall-induced landslides with debris flows runout patterns towards catchment scale hazard assessment. <i>Geomorphology</i> , 2017, 280, 1-15.	2.6	49
117	The Porous Surface Model, a Novel Experimental System for Online Quantitative Observation of Microbial Processes under Unsaturated Conditions. <i>Applied and Environmental Microbiology</i> , 2008, 74, 5195-5200.	3.1	48
118	Mechanisms for acoustic emissions generation during granular shearing. <i>Granular Matter</i> , 2014, 16, 627-640.	2.2	48
119	Analytical Models for Soil Pore-Size Distribution After Tillage. <i>Soil Science Society of America Journal</i> , 2002, 66, 1104-1114.	2.2	47
120	Evaporation from partially covered water surfaces. <i>Water Resources Research</i> , 2010, 46, .	4.2	47
121	Aquatic habitats and diffusion constraints affecting microbial coexistence in unsaturated porous media. <i>Water Resources Research</i> , 2005, 41, .	4.2	46
122	A Mechanistic Model of Microbially Mediated Soil Biogeochemical Processes: A Reality Check. <i>Global Biogeochemical Cycles</i> , 2019, 33, 620-648.	4.9	46
123	Error analyses of simplified unsaturated flow models under large uncertainty in hydraulic properties. <i>Water Resources Research</i> , 1992, 28, 2913-2924.	4.2	45
124	Thermo-evaporative fluxes from heterogeneous porous surfaces resolved by infrared thermography. <i>Water Resources Research</i> , 2010, 46, .	4.2	45
125	Effects of rainfall spatial variability and intermittency on shallow landslide triggering patterns at a catchment scale. <i>Water Resources Research</i> , 2014, 50, 7780-7799.	4.2	45
126	Bacterial flagellar motility on hydrated rough surfaces controlled by aqueous film thickness and connectedness. <i>Scientific Reports</i> , 2016, 6, 19409.	3.3	45

#	ARTICLE	IF	CITATIONS
127	Modeling metabolic networks of individual bacterial agents in heterogeneous and dynamic soil habitats (IndiMeSH). PLoS Computational Biology, 2019, 15, e1007127.	3.2	45
128	Water Table Depth and Soil Salinization: From Pore-Scale Processes to Field-Scale Responses. Water Resources Research, 2020, 56, e2019WR026707.	4.2	45
129	Limited diffusive fluxes of substrate facilitate coexistence of two competing bacterial strains. FEMS Microbiology Ecology, 2008, 64, 1-8.	2.7	44
130	Stochastic modeling of unsaturated flow in heterogeneous soils with water uptake by plant roots: The Parallel Columns Model. Water Resources Research, 1993, 29, 619-631.	4.2	43
131	Pore scale dynamics underlying the motion of drainage fronts in porous media. Water Resources Research, 2014, 50, 8441-8457.	4.2	43
132	The Plumbing of Land Surface Models: Is Poor Performance a Result of Methodology or Data Quality?. Journal of Hydrometeorology, 2016, 17, 1705-1723.	1.9	43
133	A new soil metric potential sensor based on time domain reflectometry. Water Resources Research, 1999, 35, 3399-3407.	4.2	42
134	Covariation of vegetation and climate constrains present and future T/ET variability. Environmental Research Letters, 2018, 13, 104012.	5.2	42
135	Invasion percolation of single component, multiphase fluids with lattice Boltzmann models. Physica B: Condensed Matter, 2003, 338, 298-303.	2.7	40
136	WATER RETENTION AND CHARACTERISTIC CURVE. , 2005, , 278-289.		40
137	Kirkham's Legacy and Contemporary Challenges in Soil Physics Research. Soil Science Society of America Journal, 2011, 75, 1589-1601.	2.2	40
138	Speed and attenuation of acoustic waves in snow: Laboratory experiments and modeling with Biot's theory. Cold Regions Science and Technology, 2016, 125, 1-11.	3.5	40
139	Resolving Species Level Changes in a Representative Soil Bacterial Community Using Microfluidic Quantitative PCR. Frontiers in Microbiology, 2017, 8, 2017.	3.5	40
140	Near-Surface Soil Water Content Measurements Using Horn Antenna Radar: Methodology and Overview. Vadose Zone Journal, 2003, 2, 500-510.	2.2	39
141	Flow and Uptake Patterns Affecting Soil Water Sensor Placement for Drip Irrigation Management. Transactions of the American Society of Agricultural Engineers, 1996, 39, 2007-2016.	0.9	38
142	Temperature dynamics during nonisothermal evaporation from drying porous surfaces. Water Resources Research, 2013, 49, 7339-7349.	4.2	38
143	Evaporation suppression and energy balance of water reservoirs covered with self-assembling floating elements. Hydrology and Earth System Sciences, 2018, 22, 4015-4032.	4.9	38
144	Design of Porous Media for Optimal Gas and Liquid Fluxes to Plant Roots. Soil Science Society of America Journal, 1998, 62, 563-573.	2.2	37

#	ARTICLE	IF	CITATIONS
145	Who Invented the Tensiometer?. Soil Science Society of America Journal, 2001, 65, 1-3.	2.2	37
146	Natural length scales define the range of applicability of the Richards equation for capillary flows. Water Resources Research, 2015, 51, 7130-7144.	4.2	37
147	Stochastic analysis of unsaturated steady state flow through bounded heterogeneous formations. Water Resources Research, 1993, 29, 1141-1148.	4.2	36
148	Surface area, geometrical and configurational effects on permittivity of porous media. Journal of Non-Crystalline Solids, 2002, 305, 247-254.	3.1	36
149	Dynamics of Microbial Growth and Coexistence on Variably Saturated Rough Surfaces. Microbial Ecology, 2009, 58, 262-275.	2.8	36
150	Energy partitioning dynamics of drying terrestrial surfaces. Journal of Hydrology, 2014, 519, 1257-1270.	5.4	36
151	Soil Water and Crop Yield Spatial Variability Induced by Irrigation Nonuniformity. Soil Science Society of America Journal, 1992, 56, 226-233.	2.2	34
152	Gas Diffusion Measurement and Modeling in Coarse-Textured Porous Media. Vadose Zone Journal, 2003, 2, 602-610.	2.2	34
153	Liquid fragmentation and intermittent flow regimes in unsaturated fractured media. Water Resources Research, 2005, 41, .	4.2	34
154	Dynamics of soil biogeochemical gas emissions shaped by remolded aggregate sizes and carbon configurations under hydration cycles. Global Change Biology, 2018, 24, e378-e392.	9.5	34
155	In Situ Method for Estimating Subsurface Unsaturated Hydraulic Conductivity. Water Resources Research, 1995, 31, 1863-1870.	4.2	33
156	Simulation of gaseous diffusion in partially saturated porous media under variable gravity with lattice Boltzmann methods. Water Resources Research, 2005, 41, W08410.	4.2	33
157	Anisotropy factor of saturated and unsaturated soils. Water Resources Research, 2006, 42, .	4.2	33
158	Leaf-scale experiments reveal an important omission in the Penman-Monteith equation. Hydrology and Earth System Sciences, 2017, 21, 685-706.	4.9	33
159	The engineering of spatially linked microbial consortia – potential and perspectives. Current Opinion in Biotechnology, 2020, 62, 137-145.	6.6	33
160	Modeled effects on permittivity measurements of water content in high surface area porous media. Physica B: Condensed Matter, 2003, 338, 284-290.	2.7	32
161	Farm vehicles approaching weights of sauropods exceed safe mechanical limits for soil functioning. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2117699119.	7.1	32
162	Experimental and Numerical Evaluation of Analytical Volume Balance Model for Soil Water Dynamics under Drip Irrigation. Soil Science Society of America Journal, 2003, 67, 1657-1671.	2.2	31

#	ARTICLE	IF	CITATIONS
163	Microscale pH variations during drying of soils and desert biocrusts affect HONO and NH ₃ emissions. <i>Nature Communications</i> , 2019, 10, 3944.	12.8	31
164	Hydraulic conductivity of partially saturated fractured porous media: flow in a cross-section. <i>Advances in Water Resources</i> , 2003, 26, 883-898.	3.8	30
165	Drying patterns of porous media containing wettability contrasts. <i>Journal of Colloid and Interface Science</i> , 2013, 391, 135-141.	9.4	30
166	New turbulent resistance parameterization for soil evaporation based on a pore-scale model: Impact on surface fluxes in CABLE. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 220-238.	3.8	30
167	Ground-penetrating radar measurement of crop and surface water content dynamics. <i>Remote Sensing of Environment</i> , 2005, 96, 119-134.	11.0	29
168	Morphology, propagation dynamics and scaling characteristics of drying fronts in porous media. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	29
169	Effect of wetness patchiness on evaporation dynamics from drying porous surfaces. <i>Water Resources Research</i> , 2013, 49, 8250-8262.	4.2	29
170	Linking evaporative fluxes from bare soil across surface viscous sublayer with the Monin-Obukhov atmospheric flux-profile estimates. <i>Journal of Hydrology</i> , 2015, 525, 684-693.	5.4	29
171	On Upscaling of Soil Microbial Processes and Biogeochemical Fluxes From Aggregates to Landscapes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1526-1547.	3.0	29
172	Bridging the Holistic-Reductionist Divide in Microbial Ecology. <i>MSystems</i> , 2019, 4, .	3.8	29
173	Individual-Based Model of Microbial Life on Hydrated Rough Soil Surfaces. <i>PLoS ONE</i> , 2016, 11, e0147394.	2.5	29
174	Spatial and temporal soil water estimation considering soil variability and evapotranspiration uncertainty. <i>Water Resources Research</i> , 1992, 28, 803-814.	4.2	28
175	Traveling liquid bridges in unsaturated fractured porous media. <i>Transport in Porous Media</i> , 2007, 68, 129-151.	2.6	28
176	Fluid Depletion in Shear Bands. <i>Physical Review Letters</i> , 2012, 109, 248001.	7.8	28
177	Evaporation Suppression From Water Bodies Using Floating Covers: Laboratory Studies of Cover Type, Wind, and Radiation Effects. <i>Water Resources Research</i> , 2019, 55, 4839-4853.	4.2	28
178	Global Prediction of Soil Saturated Hydraulic Conductivity Using Random Forest in a Covariate-Based GeoTransfer Function (CoGTF) Framework. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002242.	3.8	28
179	EVALUATION OF METHODS FOR DETERMINING SOIL-WATER RETENTIVITY AND UNSATURATED HYDRAULIC CONDUCTIVITY. <i>Soil Science</i> , 1994, 158, 1-13.	0.9	27
180	MICROGRAVITY EFFECTS ON WATER SUPPLY AND SUBSTRATE PROPERTIES IN POROUS MATRIX ROOT SUPPORT SYSTEMS. <i>Acta Astronautica</i> , 2000, 47, 839-848.	3.2	27

#	ARTICLE	IF	CITATIONS
181	Evolution of unsaturated hydraulic conductivity of aggregated soils due to compressive forces. Water Resources Research, 2008, 44, .	4.2	27
182	A Hydration-Based Biophysical Index for the Onset of Soil Microbial Coexistence. Scientific Reports, 2012, 2, 881.	3.3	27
183	Characteristics of acoustic emissions induced by fluid front displacement in porous media. Water Resources Research, 2012, 48, .	4.2	27
184	Codetection of acoustic emissions during failure of heterogeneous media: New perspectives for natural hazard early warning. Geophysical Research Letters, 2016, 43, 1075-1083.	4.0	27
185	Hydration status and diurnal trophic interactions shape microbial community function in desert biocrusts. Biogeosciences, 2017, 14, 5403-5424.	3.3	27
186	Plant Water Use Efficiency over Geological Time – Evolution of Leaf Stomata Configurations Affecting Plant Gas Exchange. PLoS ONE, 2013, 8, e67757.	2.5	27
187	Deformation and permeability of aggregated soft earth materials. Journal of Geophysical Research, 2006, 111, .	3.3	26
188	Thermal signatures of turbulent airflows interacting with evaporating thin porous surfaces. International Journal of Heat and Mass Transfer, 2015, 87, 429-446.	4.8	26
189	Drip Irrigation in Heterogeneous Soils: Steady-State Field Experiments for Stochastic Model Evaluation. Soil Science Society of America Journal, 1996, 60, 1339-1349.	2.2	25
190	Applicability of Analytical Solutions for Flow from Point Sources to Drip Irrigation Management. Soil Science Society of America Journal, 1997, 61, 1331-1341.	2.2	25
191	Linking drainage front morphology with gaseous diffusion in unsaturated porous media: A lattice Boltzmann study. Physical Review E, 2006, 74, 056304.	2.1	25
192	Evaporation from Wavy Porous Surfaces into Turbulent Airflows. Transport in Porous Media, 2015, 110, 225-250.	2.6	25
193	The effect of vegetation on infiltration in shallow soils underlain by fissured bedrock. Journal of Hydrology, 1999, 218, 169-190.	5.4	24
194	Dripping into subterranean cavities from unsaturated fractures under evaporative conditions. Water Resources Research, 2000, 36, 381-393.	4.2	24
195	A framework for quantifying hydrologic effects of soil structure across scales. Communications Earth & Environment, 2021, 2, .	6.8	24
196	Quantification of subsurface thermal regimes beneath evaporating porous surfaces. International Journal of Heat and Mass Transfer, 2011, 54, 4193-4202.	4.8	23
197	Linking rainfall-induced landslides with predictions of debris flow runout distances. Landslides, 2016, 13, 1097-1107.	5.4	23
198	Surface Evaporation in Arid Regions: Insights From Lysimeter Decadal Record and Global Application of a Surface Evaporation Capacitor (SEC) Model. Geophysical Research Letters, 2019, 46, 9648-9657.	4.0	23

#	ARTICLE	IF	CITATIONS
199	Spatial organization in microbial range expansion emerges from trophic dependencies and successful lineages. <i>Communications Biology</i> , 2020, 3, 685.	4.4	23
200	SoilKsatDB: global database of soil saturated hydraulic conductivity measurements for geoscience applications. <i>Earth System Science Data</i> , 2021, 13, 1593-1612.	9.9	23
201	Calibra��o da Reflectometria no Dom�nio do Tempo (TDR) para a estimativa da concentra��o da solu��o no solo. <i>Engenharia Agr�cola</i> , 2006, 26, 282-291.	0.7	22
202	Theoretical Analysis of Fluid Inclusions for In Situ Soil Stress and Deformation Measurements. <i>Soil Science Society of America Journal</i> , 2006, 70, 1441-1452.	2.2	22
203	Microbial growth on partially saturated rough surfaces: Simulations in idealized roughness networks. <i>Water Resources Research</i> , 2007, 43, .	4.2	22
204	Measurements and Modeling of Variable Gravity Effects on Water Distribution and Flow in Unsaturated Porous Media. <i>Vadose Zone Journal</i> , 2007, 6, 713-724.	2.2	22
205	Distribution and storage characterization of soil solution for drip irrigation. <i>Irrigation Science</i> , 2009, 27, 277-288.	2.8	22
206	Effects of hydromechanical loading history and antecedent soil mechanical damage on shallow landslide triggering. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 1990-2015.	2.8	22
207	Interactions of bluff-body obstacles with turbulent airflows affecting evaporative fluxes from porous surfaces. <i>Journal of Hydrology</i> , 2015, 530, 103-116.	5.4	22
208	Drainage mechanisms in porous media: From piston��like invasion to formation of corner flow networks. <i>Water Resources Research</i> , 2016, 52, 8413-8436.	4.2	22
209	Deforestation Effects on Rainfall��induced Shallow Landslides: Remote Sensing and Physically��Based Modelling. <i>Water Resources Research</i> , 2019, 55, 9962-9976.	4.2	22
210	The Tyranny of Small Scales��On Representing Soil Processes in Global Land Surface Models. <i>Water Resources Research</i> , 2020, 56, .	4.2	22
211	Choice of Pedotransfer Functions Matters when Simulating Soil Water Balance Fluxes. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002404.	3.8	22
212	The chosen few��variations in common and rare soil bacteria across biomes. <i>ISME Journal</i> , 2021, 15, 3315-3325.	9.8	22
213	Soil Water Characteristic Determination from Concurrent Water Content Measurements in Reference Porous Media. <i>Soil Science Society of America Journal</i> , 2001, 65, 1659-1666.	2.2	21
214	Gravity-driven slug motion in capillary tubes. <i>Physics of Fluids</i> , 2009, 21, .	4.0	21
215	Trophic interactions induce spatial self-organization of microbial consortia on rough surfaces. <i>Scientific Reports</i> , 2014, 4, 6757.	3.3	21
216	Mechanistic modeling of microbial interactions at pore to profile scale resolve methane emission dynamics from permafrost soil. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 1216-1238.	3.0	21

#	ARTICLE	IF	CITATIONS
217	Distribution of small seasonal reservoirs in semi-arid regions and associated evaporative losses. Environmental Research Communications, 2020, 2, 061002.	2.3	21
218	Clays Are Not Created Equal: How Clay Mineral Type Affects Soil Parameterization. Geophysical Research Letters, 2021, 48, e2021GL095311.	4.0	21
219	Physical and Hydraulic Properties of Baked Ceramic Aggregates Used for Plant Growth Medium. Journal of the American Society for Horticultural Science, 2005, 130, 767-774.	1.0	21
220	Mechanisms for biocrust-modulated runoff generation – A review. Earth-Science Reviews, 2022, 231, 104100.	9.1	21
221	Stochastic Analysis of Soil Water Monitoring for Drip Irrigation Management in Heterogeneous Soils. Soil Science Society of America Journal, 1995, 59, 1222-1233.	2.2	20
222	Unsaturated Hydraulic Conductivity of Structured Porous Media: A Review of Liquid Configuration-Based Models. Vadose Zone Journal, 2002, 1, 14-37.	2.2	20
223	Pore-Space Dynamics in a Soil Aggregate Bed under a Static External Load. Soil Science Society of America Journal, 2003, 67, 12-19.	2.2	20
224	Mechanics and Energetics of Soil Penetration by Earthworms and Plant Roots: Higher Rates Cost More. Vadose Zone Journal, 2017, 16, 1-16.	2.2	20
225	Rainfall Intensity Temporal Patterns Affect Shallow Landslide Triggering and Hazard Evolution. Geophysical Research Letters, 2020, 47, e2019GL085994.	4.0	20
226	Soil structure recovery following compaction: Short-term evolution of soil physical properties in a loamy soil. Soil Science Society of America Journal, 2021, 85, 1002-1020.	2.2	20
227	Beyond Earth: Designing Root Zone Environments for Reduced Gravity Conditions. Vadose Zone Journal, 2012, 11, .	2.2	19
228	Liquid Behavior in Partially Saturated Porous Media under Variable Gravity. Soil Science Society of America Journal, 2009, 73, 341-350.	2.2	17
229	Pore-scale evaporation-condensation dynamics resolved by synchrotron x-ray tomography. Physical Review E, 2012, 85, 016317.	2.1	17
230	Soil Water Dynamics Under Drip Irrigation: Transient Flow and Uptake Models. Transactions of the American Society of Agricultural Engineers, 1996, 39, 2017-2025.	0.9	16
231	Fiber bundle models for stress release and energy bursts during granular shearing. Physical Review E, 2012, 86, 061307.	2.1	16
232	Listening to earthworms burrowing and roots growing - acoustic signatures of soil biological activity. Scientific Reports, 2018, 8, 10236.	3.3	16
233	A hierarchy of environmental covariates control the global biogeography of soil bacterial richness. Scientific Reports, 2019, 9, 12129.	3.3	16
234	Stochastic estimation of plant-available soil water under fluctuating water table depths. Journal of Hydrology, 1994, 163, 43-64.	5.4	15

#	ARTICLE	IF	CITATIONS
235	Low Frequency Impedance Behavior of Montmorillonite Suspensions. Soil Science Society of America Journal, 2003, 67, 518-526.	2.2	15
236	Deformation of Pores in Viscoplastic Soil Material. International Journal of Geomechanics, 2006, 6, 108-118.	2.7	15
237	The complementary relationship between actual and potential evaporation for spatially heterogeneous surfaces. Water Resources Research, 2017, 53, 580-601.	4.2	15
238	Physical Constraints for Improved Soil Hydraulic Parameter Estimation by Pedotransfer Functions. Water Resources Research, 2020, 56, e2019WR025963.	4.2	15
239	Evaluating a land surface model at a water-limited site: implications for land surface contributions to droughts and heatwaves. Hydrology and Earth System Sciences, 2021, 25, 447-471.	4.9	15
240	SONDAS DE TDR PARA A ESTIMATIVA DA UMIDADE E DA CONDUTIVIDADE ELÉTRICA DO SOLO. Irriga, 2006, 11, 12-25.	0.1	15
241	Rare and localized events stabilize microbial community composition and patterns of spatial self-organization in a fluctuating environment. ISME Journal, 2022, 16, 1453-1463.	9.8	15
242	Patient Satisfaction and Aesthetic Results After Pedicled Transverse Rectus Abdominis Muscle Flap for Breast Reconstruction. Annals of Surgical Oncology, 2006, 13, 1739-1746.	1.5	14
243	Air entry–based characteristic length for estimation of permeability of variably compacted earth materials. Water Resources Research, 2008, 44, .	4.2	14
244	Biomechanical limits to soil penetration by earthworms: direct measurements of hydroskeletal pressures and peristaltic motions. Journal of the Royal Society Interface, 2018, 15, 20180127.	3.4	14
245	Low Frequency Impedance Behavior of Montmorillonite Suspensions. Soil Science Society of America Journal, 2003, 67, 518.	2.2	14
246	A Time Domain Reflectometry Coaxial Cell for Manipulation and Monitoring of Water Content and Electrical Conductivity in Variably Saturated Porous Media. Vadose Zone Journal, 2005, 4, 977-982.	2.2	14
247	Experimental Evaluation of Earthworm and Plant Root Soil Penetration–Cavity Expansion Models Using Cone Penetrometer Analogs. Vadose Zone Journal, 2016, 15, 1-14.	2.2	13
248	Pore-scale study of thermal fields during evaporation from drying porous surfaces. International Journal of Heat and Mass Transfer, 2017, 104, 1189-1201.	4.8	13
249	Global earthworm distribution and activity windows based on soil hydromechanical constraints. Communications Biology, 2021, 4, 612.	4.4	13
250	Dielectric Measurement of Agricultural Grain Moisture–Theory and Applications. Sensors, 2022, 22, 2083.	3.8	13
251	Characteristics of Acoustic Emissions from Soil Subjected to Confined Uniaxial Compression. Vadose Zone Journal, 2017, 16, 1-12.	2.2	12
252	Comment on “On water vapor transport in field soils” by Anthony T. Cahill and Marc B. Parlange. Water Resources Research, 2000, 36, 3103-3105.	4.2	11

#	ARTICLE	IF	CITATIONS
253	A Variable-Volume TDR Probe for Measuring Water Content in Large Soil Volumes. Soil Science Society of America Journal, 2004, 68, 25-31.	2.2	11
254	WATER POTENTIAL. , 2005, , 270-277.		11
255	Size and shape evolution of pores in a viscoplastic matrix under compression. International Journal for Numerical and Analytical Methods in Geomechanics, 2006, 30, 1259-1281.	3.3	11
256	Hydraulic contacts controlling water flow across porous grains. Physical Review E, 2007, 76, 026311.	2.1	11
257	Role of Mixed Boundaries on Flow in Open Capillary Channels with Curved Air-Water Interfaces. Langmuir, 2012, 28, 12753-12761.	3.5	11
258	The formation of viscous limited saturation zones behind rapid drainage fronts in porous media. Water Resources Research, 2015, 51, 9862-9890.	4.2	11
259	Seismic signatures reveal persistence of soil compaction. Vadose Zone Journal, 2021, 20, e20140.	2.2	11
260	Wind effects on leaf transpiration challenge the concept of "potential evaporation". Proceedings of the International Association of Hydrological Sciences, 0, 371, 99-107.	1.0	11
261	Stochastic modeling of unsaturated flow in heterogeneous media with water uptake by plant roots: Tests of the parallel columns model under two-dimensional flow conditions. Water Resources Research, 1993, 29, 4109-4119.	4.2	10
262	A capillary-driven root module for plant growth in microgravity. Advances in Space Research, 1998, 22, 1407-1412.	2.6	10
263	Stress-induced volume reduction of isolated pores in wet soil. Water Resources Research, 2003, 39, .	4.2	10
264	Plant water accessibility function: A design and management tool for trickle irrigation. Agricultural Water Management, 2006, 82, 45-62.	5.6	10
265	Failure criterion for materials with spatially correlated mechanical properties. Physical Review E, 2015, 91, 032134.	2.1	10
266	Evaporation-Induced Capillary Siphoning Through Hydraulically Connected Porous Domains: The Vedernikov-Bouwer Model Revisited. Transport in Porous Media, 2019, 129, 231-251.	2.6	10
267	Desempenho de diferentes guias de ondas para uso com o analisador de umidade TRASE. Revista Brasileira De Engenharia Agrícola E Ambiental, 2001, 5, 81-87.	1.1	10
268	Probability Distribution of Solute Travel Time for Convective Transport in Field-Scale Soils Under Unsteady and Nonuniform Flows. Water Resources Research, 1996, 32, 875-889.	4.2	9
269	A discrete-fracture boundary integral approach to simulating coupled energy and moisture transport in a fractured porous medium. Geophysical Monograph Series, 2000, , 267-279.	0.1	9
270	Thermoelectric effects on radar backscattering from wet soil. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 897-901.	6.3	9

#	ARTICLE	IF	CITATIONS
271	Reply to comment by N. Kartal Toker, John T. Germaine, and Patricia J. Culligan on “Cavitation during desaturation of porous media under tension” Water Resources Research, 2003, 39, .	4.2	9
272	CAPILLARITY. , 2005, , 155-164.		9
273	Seepage into drifts and tunnels in unsaturated fractured rock. Water Resources Research, 2005, 41, .	4.2	9
274	Comment on “A simple model for describing hydraulic conductivity in unsaturated porous media accounting for film and capillary flow” by A. Peters and W. Durner. Water Resources Research, 2010, 46, .	4.2	9
275	The foam drainage equation for unsaturated flow in porous media. Water Resources Research, 2013, 49, 6258-6265.	4.2	9
276	Continuum cavity expansion and discrete micromechanical models for inferring macroscopic snow mechanical properties from cone penetration data. Geophysical Research Letters, 2017, 44, 8377-8386.	4.0	9
277	Persistent decay of fresh xylem hydraulic conductivity varies with pressure gradient and marks plant responses to injury. Plant, Cell and Environment, 2021, 44, 371-386.	5.7	9
278	Global Mapping of Soil Water Characteristics Parameters” Fusing Curated Data with Machine Learning and Environmental Covariates. Remote Sensing, 2022, 14, 1947.	4.0	9
279	Modeling and Design of Optimal Growth Media from Plant - Based Gas and Liquid Fluxes. , 0, , .		8
280	Turbulence-induced thermal signatures over evaporating bare soil surfaces. Geophysical Research Letters, 2015, 42, 5325-5336.	4.0	8
281	Microgravity Oxygen Diffusion and Water Retention Measurements in Unsaturated Porous Media aboard the International Space Station. Vadose Zone Journal, 2015, 14, 1-19.	2.2	8
282	Drying of Porous Media. Transport in Porous Media, 2015, 110, 171-173.	2.6	8
283	Drainage dynamics controlled by corner flow: Application of the foam drainage equation. Water Resources Research, 2016, 52, 8402-8412.	4.2	8
284	Technical note: An experimental set-up to measure latent and sensible heat fluxes from (artificial) plant leaves. Hydrology and Earth System Sciences, 2017, 21, 3377-3400.	4.9	8
285	Spatiotemporal metabolic modeling of bacterial life in complex habitats. Current Opinion in Biotechnology, 2021, 67, 65-71.	6.6	8
286	Evaporation Suppression From Small Reservoirs Using Floating Covers”Field Study and Modeling. Water Resources Research, 2021, 57, e2020WR028753.	4.2	8
287	Pore-Space Dynamics in a Soil Aggregate Bed under a Static External Load. Soil Science Society of America Journal, 2003, 67, 12.	2.2	8
288	Controlling pore-scale processes to tame subsurface biomineralization. Reviews in Environmental Science and Biotechnology, 2022, 21, 27-52.	8.1	8

#	ARTICLE	IF	CITATIONS
289	Avaliação de parâmetros hidráulicos para modelos de distribuição de água no solo sob gotejamento. Pesquisa Agropecuária Brasileira, 1999, 34, 651-657.	0.9	7
290	POROUS MEDIA MATRIC POTENTIAL AND WATER CONTENT MEASUREMENTS DURING PARABOLIC FLIGHT. Habitation, 2005, 10, 117-126.	0.2	7
291	Subsurface tension permeametry. Water Resources Research, 2000, 36, 2043-2053.	4.2	6
292	ORZS: Optimization of Root Zone Substrates for Microgravity. , 0, , .		6
293	Measurement of Porous Media Hydraulic Properties During Parabolic Flight Induced Microgravity. , 0, , .		6
294	2. Soil water concepts. Developments in Agricultural Engineering, 2007, , 27-59.	0.1	6
295	Permeability of deformable soft aggregated earth materials: From single pore to sample cross section. Water Resources Research, 2007, 43, .	4.2	6
296	Capillary flows across layers and textural interfaces “ Pathways and colloid transport considerations in unsaturated layered porous media. Journal of Colloid and Interface Science, 2017, 504, 294-304.	9.4	6
297	The foam drainage equation for drainage dynamics in unsaturated porous media. Water Resources Research, 2017, 53, 5706-5724.	4.2	6
298	Rapid Shifts in Bacterial Community Assembly under Static and Dynamic Hydration Conditions in Porous Media. Applied and Environmental Microbiology, 2019, 86, .	3.1	6
299	Enhanced Rainfall-Induced Shallow Landslide Activity Following Seismic Disturbance “From Triggering to Healing. Journal of Geophysical Research F: Earth Surface, 2021, 126, .	2.8	6
300	Lasting Effects of Soil Compaction on Soil Water Regime Confirmed by Geoelectrical Monitoring. Water Resources Research, 2022, 58, e2021WR030696.	4.2	6
301	Bacterial age distribution in soil “ Generational gaps in adjacent hot and cold spots. PLoS Computational Biology, 2022, 18, e1009857.	3.2	6
302	The Lasting Signatures of Past Landslides on Soil Stripping From Landscapes. Water Resources Research, 2021, 57, .	4.2	6
303	Flow and Distribution of Fluid Phases through Porous Plant Growth Media in Microgravity: Progress to Date. , 0, , .		5
304	Challenges to Understanding Fluid Behavior in Plant Growth Media Under Microgravity. , 0, , .		5
305	The Reliability and Validity of the Aggregate Neurobehavioral Student Health and Educational Review Parent™s Questionnaire (ANSER-PQ). Journal of Child Neurology, 2010, 25, 157-164.	1.4	5
306	Tensile stress relaxation in unsaturated granular materials. Granular Matter, 2016, 18, 1.	2.2	5

#	ARTICLE	IF	CITATIONS
307	Modelo de distribui��o de �gua e de potencial matricial no solo sob gotejamento com extra��o de �gua por ra�zes. Pesquisa Agropecuaria Brasileira, 1999, 34, 227-234.	0.9	5
308	Using the Complementary Relationship Between Actual and Potential Evaporation to Diagnose the Onset of Heatwaves. Water Resources Research, 2021, 57, e2020WR029156.	4.2	5
309	Limited role of soil texture in mediating natural vegetation response to rainfall anomalies. Environmental Research Letters, 2022, 17, 034012.	5.2	5
310	Primary carbon sources and self-induced metabolic landscapes shape community structure in soil bacterial hotspots. Soil Biology and Biochemistry, 2022, 168, 108620.	8.8	5
311	On Infiltration and Infiltration Characteristic Times. Water Resources Research, 2022, 58, .	4.2	5
312	Prediction of surface irrigation advance using soil intake properties. Irrigation Science, 1996, 16, 159-167.	2.8	4
313	Particulated growth media for optimal liquid and gaseous fluxes to plant roots in microgravity. Advances in Space Research, 1998, 22, 1413-1418.	2.6	4
314	Thermal and Geometrical Effects on Bulk Permittivity of Porous Mixtures Containing Bound Water. , 2005, , 71-92.		4
315	Comment on "Computer simulation of two-phase immiscible fluid motion in unsaturated complex fractures using a volume of fluid method" by Hai Huang, Paul Meakin, and Moubin Liu. Water Resources Research, 2006, 42, .	4.2	4
316	Providing Optimal Root-Zone Fluid Fluxes: Effects of Hysteresis on Capillary-Dominated Water Distributions in Reduced Gravity. , 0, , .		4
317	Load redistribution rules for progressive failure in shallow landslides: Threshold mechanical models. Geophysical Research Letters, 2017, 44, 228-235.	4.0	4
318	Characteristics of Turbulent Airflow Deduced from Rapid Surface Thermal Fluctuations: An Infrared Surface Anemometer. Boundary-Layer Meteorology, 2017, 165, 519-534.	2.3	4
319	Reduced gravity promotes bacterially mediated anoxic hotspots in unsaturated porous media. Scientific Reports, 2020, 10, 8614.	3.3	4
320	Effects of Spatially Variable Intake on Surface Irrigation��Advance. Journal of Irrigation and Drainage Engineering - ASCE, 1996, 122, 122-130.	1.0	3
321	Flow and Distribution of Fluid Phases through Porous Plant Growth Media in Microgravity. , 2004, , 325.		3
322	Comment on "Layer averaged Richards�� equation with lateral flow" by Praveen Kumar. Advances in Water Resources, 2004, 27, 1041-1042.	3.8	3
323	Comment on "Column-scale unsaturated hydraulic conductivity estimates in coarse-textured homogeneous and layered soils derived under steady-state evaporation from a water table" by M. Sadeghi, M. Tuller, M.R. Gohardoust and S.B. Jones. Journal of Hydrology, 2015, 529, 1274-1276.	5.4	3
324	Gas Diffusion Measurement and Modeling in Coarse-Textured Porous Media. Vadose Zone Journal, 2003, 2, 602-610.	2.2	3

#	ARTICLE	IF	CITATIONS
325	Effect of gravity and model characteristics on steady infiltration from spheroids. Geophysical Monograph Series, 2002, , 65-70.	0.1	2
326	An Automated Oxygen Diffusion Measurement System for Porous Media in Microgravity. , 0, , .		2
327	Relationship between temperature sensitivity of capillary pressure and soil particle size. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	2
328	Editorial: The Future of Vadose Zone Journal. Vadose Zone Journal, 2006, 5, 125-125.	2.2	2
329	Porous Plant Growth Media Design Considerations for Lunar and Martian Habitats. SAE International Journal of Aerospace, 2009, 4, 55-62.	4.0	2
330	Irrigation Scheduling Considering Soil Variability and Climatic Uncertainty: Simulation and Field Studies. Advanced Series in Agricultural Sciences, 1993, , 262-282.	0.2	2
331	How Landslides Become Disasters. Eos, 2018, 99, .	0.1	2
332	Near-Surface Soil Water Content Measurements Using Horn Antenna Radar. Vadose Zone Journal, 2003, 2, 500.	2.2	2
333	Using an Expectationâ€”Maximization Algorithm to Obtain Dielectric Relaxation-Time Spectra of Aqueous Montmorillonite Clay Suspensions. Applied Spectroscopy, 2002, 56, 1470-1474.	2.2	1
334	Near-Surface Soil Water Content Measurements Using Horn Antenna Radar: Methodology and Overview. Vadose Zone Journal, 2003, 2, 500-510.	2.2	1
335	Liquid-Gas Interfacial Configurations in Angular Pores under Microgravity. , 2004, , 346.		1
336	On liquid migration in sheared granular matter. , 2013, , .		1
337	Reply [to â€œComment on â€œIn situ method for estimating subsurface unsaturated hydraulic conductivityâ€”by Uri Shani and Dani Orâ€œ]. Water Resources Research, 1996, 32, 1897-1897.	4.2	0
338	Response to â€œComments on 'Low Frequency Impedance Behavior of Montmorillonite Suspensions. Soil Science Society of America Journal, 2004, 68, 1024-1024.	2.2	0
339	Automated Systems for Oxygen Diffusion Measurements in Porous Media at 1g and 0g. , 2004, , 368.		0
340	Correction to â€œRelationship between temperature sensitivity of capillary pressure and soil particle sizeâ€œ. Geophysical Research Letters, 2004, 31, .	4.0	0
341	Correction to "Ground-Penetrating Radar Measurement of Soil Water Content Dynamics Using a Suspended Horn Antenna". IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 2016-2016.	6.3	0
342	Reply to comment by Stefan Finsterle on â€œSeepage into drifts and tunnels in unsaturated fractured rockâ€œ. Water Resources Research, 2006, 42, .	4.2	0

#	ARTICLE	IF	CITATIONS
343	Distribution And Storage Characterization Of Soil Solution For Drip Irrigation. , 2009, , .		0
344	<i>Vadose Zone Journal</i>: The First Ten Years. Vadose Zone Journal, 2013, 12, 1-3.	2.2	0
345	Adsorption and Capillary Processes in Variably Saturated Porous Media-Pore Scale Hydrostatic and Hydrodynamic Considerations. SSSA Special Publication Series, 2015, , 1-50.	0.2	0