

Dani Or

List of Publications by Year in descending order

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Version: 2024-02-01

344
papers

18,471
citations

11608

70
h-index

20307

116
g-index

386
all docs

386
docs citations

386
times ranked

13169
citing authors

#	ARTICLE	IF	CITATIONS
1	Lasting Effects of Soil Compaction on Soil Water Regime Confirmed by Geoelectrical Monitoring. <i>Water Resources Research</i> , 2022, 58, e2021WR030696.	1.7	6
2	Controlling pore-scale processes to tame subsurface biomineralization. <i>Reviews in Environmental Science and Biotechnology</i> , 2022, 21, 27-52.	3.9	8
3	Rare and localized events stabilize microbial community composition and patterns of spatial self-organization in a fluctuating environment. <i>ISME Journal</i> , 2022, 16, 1453-1463.	4.4	15
4	Limited role of soil texture in mediating natural vegetation response to rainfall anomalies. <i>Environmental Research Letters</i> , 2022, 17, 034012.	2.2	5
5	Bacterial age distribution in soil â€“ Generational gaps in adjacent hot and cold spots. <i>PLoS Computational Biology</i> , 2022, 18, e1009857.	1.5	6
6	Dielectric Measurement of Agricultural Grain Moistureâ€”Theory and Applications. <i>Sensors</i> , 2022, 22, 2083.	2.1	13
7	Primary carbon sources and self-induced metabolic landscapes shape community structure in soil bacterial hotspots. <i>Soil Biology and Biochemistry</i> , 2022, 168, 108620.	4.2	5
8	Global Mapping of Soil Water Characteristics Parametersâ€” Fusing Curated Data with Machine Learning and Environmental Covariates. <i>Remote Sensing</i> , 2022, 14, 1947.	1.8	9
9	On Infiltration and Infiltration Characteristic Times. <i>Water Resources Research</i> , 2022, 58, .	1.7	5
10	Farm vehicles approaching weights of sauropods exceed safe mechanical limits for soil functioning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2117699119.	3.3	32
11	Mechanisms for biocrust-modulated runoff generation â€“ A review. <i>Earth-Science Reviews</i> , 2022, 231, 104100.	4.0	21
12	Persistent decay of fresh xylem hydraulic conductivity varies with pressure gradient and marks plant responses to injury. <i>Plant, Cell and Environment</i> , 2021, 44, 371-386.	2.8	9
13	Enhanced Rainfallâ€”Induced Shallow Landslide Activity Following Seismic Disturbanceâ€”From Triggering to Healing. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, .	1.0	6
14	Evaluating a land surface model at a water-limited site: implications for land surface contributions to droughts and heatwaves. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 447-471.	1.9	15
15	Spatiotemporal metabolic modeling of bacterial life in complex habitats. <i>Current Opinion in Biotechnology</i> , 2021, 67, 65-71.	3.3	8
16	Choice of Pedotransfer Functions Matters when Simulating Soil Water Balance Fluxes. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002404.	1.3	22
17	SoilKsatDB: global database of soil saturated hydraulic conductivity measurements for geoscience applications. <i>Earth System Science Data</i> , 2021, 13, 1593-1612.	3.7	23
18	Global Prediction of Soil Saturated Hydraulic Conductivity Using Random Forest in a Covariateâ€”Based GeoTransfer Function (CoGTF) Framework. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002242.	1.3	28

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19	Evaporation Suppression From Small Reservoirs Using Floating Covers—Field Study and Modeling. <i>Water Resources Research</i> , 2021, 57, e2020WR028753.	1.7	8
20	Natural and managed soil structure: On the fragile scaffolding for soil functioning. <i>Soil and Tillage Research</i> , 2021, 208, 104912.	2.6	70
21	Global earthworm distribution and activity windows based on soil hydromechanical constraints. <i>Communications Biology</i> , 2021, 4, 612.	2.0	13
22	The chosen few—variations in common and rare soil bacteria across biomes. <i>ISME Journal</i> , 2021, 15, 3315-3325.	4.4	22
23	Soil structure recovery following compaction: Short-term evolution of soil physical properties in a loamy soil. <i>Soil Science Society of America Journal</i> , 2021, 85, 1002-1020.	1.2	20
24	A framework for quantifying hydrologic effects of soil structure across scales. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	24
25	Seismic signatures reveal persistence of soil compaction. <i>Vadose Zone Journal</i> , 2021, 20, e20140.	1.3	11
26	Clays Are Not Created Equal: How Clay Mineral Type Affects Soil Parameterization. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095311.	1.5	21
27	Using the Complementary Relationship Between Actual and Potential Evaporation to Diagnose the Onset of Heatwaves. <i>Water Resources Research</i> , 2021, 57, e2020WR029156.	1.7	5
28	The Lasting Signatures of Past Landslides on Soil Stripping From Landscapes. <i>Water Resources Research</i> , 2021, 57, .	1.7	6
29	The Tyranny of Small Scales—On Representing Soil Processes in Global Land Surface Models. <i>Water Resources Research</i> , 2020, 56, .	1.7	22
30	The engineering of spatially linked microbial consortia — potential and perspectives. <i>Current Opinion in Biotechnology</i> , 2020, 62, 137-145.	3.3	33
31	Rainfall Intensity Temporal Patterns Affect Shallow Landslide Triggering and Hazard Evolution. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085994.	1.5	20
32	Reduced gravity promotes bacterially mediated anoxic hotspots in unsaturated porous media. <i>Scientific Reports</i> , 2020, 10, 8614.	1.6	4
33	A framework for modelling soil structure dynamics induced by biological activity. <i>Global Change Biology</i> , 2020, 26, 5382-5403.	4.2	75
34	Spatial organization in microbial range expansion emerges from trophic dependencies and successful lineages. <i>Communications Biology</i> , 2020, 3, 685.	2.0	23
35	The physical structure of soil: Determinant and consequence of trophic interactions. <i>Soil Biology and Biochemistry</i> , 2020, 148, 107876.	4.2	137
36	Distribution of small seasonal reservoirs in semi-arid regions and associated evaporative losses. <i>Environmental Research Communications</i> , 2020, 2, 061002.	0.9	21

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37	Water Table Depth and Soil Salinization: From Pore-Scale Processes to Field-Scale Responses. <i>Water Resources Research</i> , 2020, 56, e2019WR026707.	1.7	45
38	Soil bacterial diversity mediated by microscale aqueous-phase processes across biomes. <i>Nature Communications</i> , 2020, 11, 116.	5.8	78
39	Physical Constraints for Improved Soil Hydraulic Parameter Estimation by Pedotransfer Functions. <i>Water Resources Research</i> , 2020, 56, e2019WR025963.	1.7	15
40	Soil structure is an important omission in Earth System Models. <i>Nature Communications</i> , 2020, 11, 522.	5.8	138
41	Surface Evaporation in Arid Regions: Insights From Lysimeter Decadal Record and Global Application of a Surface Evaporation Capacitor (SEC) Model. <i>Geophysical Research Letters</i> , 2019, 46, 9648-9657.	1.5	23
42	Infiltration from the Pedon to Global Grid Scales: An Overview and Outlook for Land Surface Modeling. <i>Vadose Zone Journal</i> , 2019, 18, 1-53.	1.3	56
43	A hierarchy of environmental covariates control the global biogeography of soil bacterial richness. <i>Scientific Reports</i> , 2019, 9, 12129.	1.6	16
44	Modeling metabolic networks of individual bacterial agents in heterogeneous and dynamic soil habitats (IndiMeSH). <i>PLoS Computational Biology</i> , 2019, 15, e1007127.	1.5	45
45	Deforestation Effects on Rainfall-Induced Shallow Landslides: Remote Sensing and Physically-Based Modelling. <i>Water Resources Research</i> , 2019, 55, 9962-9976.	1.7	22
46	Microscale pH variations during drying of soils and desert biocrusts affect HONO and NH ₃ emissions. <i>Nature Communications</i> , 2019, 10, 3944.	5.8	31
47	Historical increase in agricultural machinery weights enhanced soil stress levels and adversely affected soil functioning. <i>Soil and Tillage Research</i> , 2019, 194, 104293.	2.6	204
48	A Mechanistic Model of Microbially Mediated Soil Biogeochemical Processes: A Reality Check. <i>Global Biogeochemical Cycles</i> , 2019, 33, 620-648.	1.9	46
49	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.	1.7	28
50	Evaporation-Induced Capillary Siphoning Through Hydraulically Connected Porous Domains: The Vedernikov-Bouwer Model Revisited. <i>Transport in Porous Media</i> , 2019, 129, 231-251.	1.2	10
51	Bridging the Holistic-Reductionist Divide in Microbial Ecology. <i>MSystems</i> , 2019, 4, .	1.7	29
52	Rapid Shifts in Bacterial Community Assembly under Static and Dynamic Hydration Conditions in Porous Media. <i>Applied and Environmental Microbiology</i> , 2019, 86, .	1.4	6
53	Surface Evaporative Capacitance: How Soil Type and Rainfall Characteristics Affect Global-Scale Surface Evaporation. <i>Water Resources Research</i> , 2019, 55, 519-539.	1.7	66
54	Spatial organization of bacterial populations in response to oxygen and carbon counter-gradients in pore networks. <i>Nature Communications</i> , 2018, 9, 769.	5.8	125

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55	Suppressing viscous fingering in structured porous media. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4833-4838.	3.3	107
56	On Upscaling of Soil Microbial Processes and Biogeochemical Fluxes From Aggregates to Landscapes. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 1526-1547.	1.3	29
57	Dynamics of soil biogeochemical gas emissions shaped by remolded aggregate sizes and carbon configurations under hydration cycles. Global Change Biology, 2018, 24, e378-e392.	4.2	34
58	A Review of Geophysical Methods for Soil Structure Characterization. Reviews of Geophysics, 2018, 56, 672-697.	9.0	97
59	Covariation of vegetation and climate constrains present and future T/ET variability. Environmental Research Letters, 2018, 13, 104012.	2.2	42
60	Evaporation suppression and energy balance of water reservoirs covered with self-assembling floating elements. Hydrology and Earth System Sciences, 2018, 22, 4015-4032.	1.9	38
61	Soil Texture Effects on Surface Resistance to Bare Soil Evaporation. Geophysical Research Letters, 2018, 45, 10,398.	1.5	59
62	Cell-to-cell bacterial interactions promoted by drier conditions on soil surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9791-9796.	3.3	83
63	Biomechanical limits to soil penetration by earthworms: direct measurements of hydroskeletal pressures and peristaltic motions. Journal of the Royal Society Interface, 2018, 15, 20180127.	1.5	14
64	Listening to earthworms burrowing and roots growing - acoustic signatures of soil biological activity. Scientific Reports, 2018, 8, 10236.	1.6	16
65	How Landslides Become Disasters. Eos, 2018, 99, .	0.1	2
66	Load redistribution rules for progressive failure in shallow landslides: Threshold mechanical models. Geophysical Research Letters, 2017, 44, 228-235.	1.5	4
67	Cooperation in carbon source degradation shapes spatial self-organization of microbial consortia on hydrated surfaces. Scientific Reports, 2017, 7, 43726.	1.6	51
68	Long-Term Soil Structure Observatory for Monitoring Post-Compaction Evolution of Soil Structure. Vadose Zone Journal, 2017, 16, 1-16.	1.3	63
69	Mechanistic modeling of microbial interactions at pore to profile scale resolve methane emission dynamics from permafrost soil. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 1216-1238.	1.3	21
70	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.	5.0	6
71	Microbial community response to hydration-desiccation cycles in desert soil. Scientific Reports, 2017, 7, 45735.	1.6	80
72	The complementary relationship between actual and potential evaporation for spatially heterogeneous surfaces. Water Resources Research, 2017, 53, 580-601.	1.7	15

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73	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.	1.3	30
74	Fiber-optic high-resolution acoustic emission (AE) monitoring of slope failure. <i>Landslides</i> , 2017, 14, 1139-1146.	2.7	52
75	The foam drainage equation for drainage dynamics in unsaturated porous media. <i>Water Resources Research</i> , 2017, 53, 5706-5724.	1.7	6
76	Characteristics of Turbulent Airflow Deduced from Rapid Surface Thermal Fluctuations: An Infrared Surface Anemometer. <i>Boundary-Layer Meteorology</i> , 2017, 165, 519-534.	1.2	4
77	Biophysical processes supporting the diversity of microbial life in soil. <i>FEMS Microbiology Reviews</i> , 2017, 41, 599-623.	3.9	314
78	Pore-scale study of thermal fields during evaporation from drying porous surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2017, 104, 1189-1201.	2.5	13
79	Linking rainfall-induced landslides with debris flows runout patterns towards catchment scale hazard assessment. <i>Geomorphology</i> , 2017, 280, 1-15.	1.1	49
80	Mechanics and Energetics of Soil Penetration by Earthworms and Plant Roots: Higher Rates Cost More. <i>Vadose Zone Journal</i> , 2017, 16, 1-16.	1.3	20
81	Continuum cavity expansion and discrete micromechanical models for inferring macroscopic snow mechanical properties from cone penetration data. <i>Geophysical Research Letters</i> , 2017, 44, 8377-8386.	1.5	9
82	Synthetic Microbial Ecology: Engineering Habitats for Modular Consortia. <i>Frontiers in Microbiology</i> , 2017, 8, 1125.	1.5	84
83	Resolving Species Level Changes in a Representative Soil Bacterial Community Using Microfluidic Quantitative PCR. <i>Frontiers in Microbiology</i> , 2017, 8, 2017.	1.5	40
84	Leaf-scale experiments reveal an important omission in the Penman-Monteith equation. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 685-706.	1.9	33
85	Characteristics of Acoustic Emissions from Soil Subjected to Confined Uniaxial Compression. <i>Vadose Zone Journal</i> , 2017, 16, 1-12.	1.3	12
86	Technical note: An experimental set-up to measure latent and sensible heat fluxes from (artificial) plant leaves. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 3377-3400.	1.9	8
87	Hydration status and diurnal trophic interactions shape microbial community function in desert biocrusts. <i>Biogeosciences</i> , 2017, 14, 5403-5424.	1.3	27
88	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.	1.7	51
89	A generalized complementary relationship between actual and potential evaporation defined by a reference surface temperature. <i>Water Resources Research</i> , 2016, 52, 385-406.	1.7	53
90	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.	4.2	120

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91	Experimental Evaluation of Earthworm and Plant Root Soil Penetrationâ€“Cavity Expansion Models Using Cone Penetrometer Analogs. <i>Vadose Zone Journal</i> , 2016, 15, 1-14.	1.3	13
92	Wind increases leaf water use efficiency. <i>Plant, Cell and Environment</i> , 2016, 39, 1448-1459.	2.8	66
93	Modeling Soil Processes: Review, Key Challenges, and New Perspectives. <i>Vadose Zone Journal</i> , 2016, 15, 1-57.	1.3	445
94	Drainage mechanisms in porous media: From pistonâ€“like invasion to formation of corner flow networks. <i>Water Resources Research</i> , 2016, 52, 8413-8436.	1.7	22
95	Tensile stress relaxation in unsaturated granular materials. <i>Granular Matter</i> , 2016, 18, 1.	1.1	5
96	Drainage dynamics controlled by corner flow: Application of the foam drainage equation. <i>Water Resources Research</i> , 2016, 52, 8402-8412.	1.7	8
97	Codetection of acoustic emissions during failure of heterogeneous media: New perspectives for natural hazard early warning. <i>Geophysical Research Letters</i> , 2016, 43, 1075-1083.	1.5	27
98	Bacterial flagellar motility on hydrated rough surfaces controlled by aqueous film thickness and connectedness. <i>Scientific Reports</i> , 2016, 6, 19409.	1.6	45
99	The Plumbing of Land Surface Models: Is Poor Performance a Result of Methodology or Data Quality?. <i>Journal of Hydrometeorology</i> , 2016, 17, 1705-1723.	0.7	43
100	Speed and attenuation of acoustic waves in snow: Laboratory experiments and modeling with Biot's theory. <i>Cold Regions Science and Technology</i> , 2016, 125, 1-11.	1.6	40
101	Linking rainfall-induced landslides with predictions of debris flow runout distances. <i>Landslides</i> , 2016, 13, 1097-1107.	2.7	23
102	Individual-Based Model of Microbial Life on Hydrated Rough Soil Surfaces. <i>PLoS ONE</i> , 2016, 11, e0147394.	1.1	29
103	The formation of viscous limited saturation zones behind rapid drainage fronts in porous media. <i>Water Resources Research</i> , 2015, 51, 9862-9890.	1.7	11
104	Balancing water scarcity and quality for sustainable irrigated agriculture. <i>Water Resources Research</i> , 2015, 51, 3419-3436.	1.7	140
105	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.	1.0	22
106	Adsorption and Capillary Processes in Variably Saturated Porous Media-Pore Scale Hydrostatic and Hydrodynamic Considerations. <i>SSSA Special Publication Series</i> , 2015, , 1-50.	0.2	0
107	Turbulenceâ€“induced thermal signatures over evaporating bare soil surfaces. <i>Geophysical Research Letters</i> , 2015, 42, 5325-5336.	1.5	8
108	Interactions of bluff-body obstacles with turbulent airflows affecting evaporative fluxes from porous surfaces. <i>Journal of Hydrology</i> , 2015, 530, 103-116.	2.3	22

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109	Microgravity Oxygen Diffusion and Water Retention Measurements in Unsaturated Porous Media aboard the International Space Station. <i>Vadose Zone Journal</i> , 2015, 14, 1-19.	1.3	8
110	Effects of stomata clustering on leaf gas exchange. <i>New Phytologist</i> , 2015, 207, 1015-1025.	3.5	64
111	Natural length scales define the range of applicability of the Richards equation for capillary flows. <i>Water Resources Research</i> , 2015, 51, 7130-7144.	1.7	37
112	Monitoring and prediction in early warning systems for rapid mass movements. <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 905-917.	1.5	107
113	Hydration and diffusion processes shape microbial community organization and function in model soil aggregates. <i>Water Resources Research</i> , 2015, 51, 9804-9827.	1.7	91
114	Failure criterion for materials with spatially correlated mechanical properties. <i>Physical Review E</i> , 2015, 91, 032134.	0.8	10
115	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.	2.3	29
116	Evaporation from Wavy Porous Surfaces into Turbulent Airflows. <i>Transport in Porous Media</i> , 2015, 110, 225-250.	1.2	25
117	Thermal signatures of turbulent airflows interacting with evaporating thin porous surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2015, 87, 429-446.	2.5	26
118	Drying of Porous Media. <i>Transport in Porous Media</i> , 2015, 110, 171-173.	1.2	8
119	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. <i>Journal of Hydrology</i> , 2015, 529, 1274-1276.	2.3	3
120	Soil Penetration by Earthworms and Plant Roots—Mechanical Energetics of Bioturbation of Compacted Soils. <i>PLoS ONE</i> , 2015, 10, e0128914.	1.1	67
121	Microbial dispersal in unsaturated porous media: Characteristics of motile bacterial cell motions in unsaturated angular pore networks. <i>Water Resources Research</i> , 2014, 50, 7406-7429.	1.7	73
122	Modeling and analysis of evaporation processes from porous media on the REV scale. <i>Water Resources Research</i> , 2014, 50, 1059-1079.	1.7	54
123	Energy partitioning dynamics of drying terrestrial surfaces. <i>Journal of Hydrology</i> , 2014, 519, 1257-1270.	2.3	36
124	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.	1.7	120
125	Mechanisms for acoustic emissions generation during granular shearing. <i>Granular Matter</i> , 2014, 16, 627-640.	1.1	48
126	Inertial forces affect fluid front displacement dynamics in a pore-throat network model. <i>Physical Review E</i> , 2014, 90, 023019.	0.8	57

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127	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.	1.7	45
128	Pore scale dynamics underlying the motion of drainage fronts in porous media. <i>Water Resources Research</i> , 2014, 50, 8441-8457.	1.7	43
129	Trophic interactions induce spatial self-organization of microbial consortia on rough surfaces. <i>Scientific Reports</i> , 2014, 4, 6757.	1.6	21
130	Mechanical interactions between neighbouring roots during pullout tests. <i>Plant and Soil</i> , 2013, 367, 391-406.	1.8	61
131	Colloid mobilization by fluid displacement fronts in channels. <i>Journal of Colloid and Interface Science</i> , 2013, 406, 44-50.	5.0	58
132	Shear-induced force fluctuations and acoustic emissions in granular material. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 6086-6098.	1.4	54
133	Effect of wetness patchiness on evaporation dynamics from drying porous surfaces. <i>Water Resources Research</i> , 2013, 49, 8250-8262.	1.7	29
134	Hydration dynamics promote bacterial coexistence on rough surfaces. <i>ISME Journal</i> , 2013, 7, 395-404.	4.4	76
135	Evaporation rates across a convective air boundary layer are dominated by diffusion. <i>Water Resources Research</i> , 2013, 49, 1602-1610.	1.7	92
136	An interdisciplinary approach towards improved understanding of soil deformation during compaction. <i>Soil and Tillage Research</i> , 2013, 128, 61-80.	2.6	78
137	Drying patterns of porous media containing wettability contrasts. <i>Journal of Colloid and Interface Science</i> , 2013, 391, 135-141.	5.0	30
138	The foam drainage equation for unsaturated flow in porous media. <i>Water Resources Research</i> , 2013, 49, 6258-6265.	1.7	9
139	Temperature dynamics during nonisothermal evaporation from drying porous surfaces. <i>Water Resources Research</i> , 2013, 49, 7339-7349.	1.7	38
140	Rainfall-triggered shallow landslides at catchment scale: Threshold mechanics-based modeling for abruptness and localization. <i>Water Resources Research</i> , 2013, 49, 6266-6285.	1.7	56
141	Advances in Soil Evaporation Physics—A Review. <i>Vadose Zone Journal</i> , 2013, 12, 1-16.	1.3	286
142	Evaporation from porous surfaces into turbulent airflows: Coupling eddy characteristics with pore scale vapor diffusion. <i>Water Resources Research</i> , 2013, 49, 8432-8442.	1.7	51
143	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.	1.7	75
144	On liquid migration in sheared granular matter. , 2013, , .		1

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145	Conceptual and Parametric Representation of Soil Hydraulic Properties: A Review. <i>Vadose Zone Journal</i> , 2013, 12, 1-20.	1.3	118
146	Stomatal Control and Leaf Thermal and Hydraulic Capacitances under Rapid Environmental Fluctuations. <i>PLoS ONE</i> , 2013, 8, e54231.	1.1	156
147	<i>Vadose Zone Journal</i>: The First Ten Years. <i>Vadose Zone Journal</i> , 2013, 12, 1-3.	1.3	0
148	Plant Water Use Efficiency over Geological Time â€“ Evolution of Leaf Stomata Configurations Affecting Plant Gas Exchange. <i>PLoS ONE</i> , 2013, 8, e67757.	1.1	27
149	Fluid Depletion in Shear Bands. <i>Physical Review Letters</i> , 2012, 109, 248001.	2.9	28
150	Pore-scale evaporation-condensation dynamics resolved by synchrotron x-ray tomography. <i>Physical Review E</i> , 2012, 85, 016317.	0.8	17
151	A Hydration-Based Biophysical Index for the Onset of Soil Microbial Coexistence. <i>Scientific Reports</i> , 2012, 2, 881.	1.6	27
152	Morphology, propagation dynamics and scaling characteristics of drying fronts in porous media. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	29
153	Beyond Earth: Designing Root Zone Environments for Reduced Gravity Conditions. <i>Vadose Zone Journal</i> , 2012, 11, .	1.3	19
154	Fiber bundle models for stress release and energy bursts during granular shearing. <i>Physical Review E</i> , 2012, 86, 061307.	0.8	16
155	Role of Mixed Boundaries on Flow in Open Capillary Channels with Curved Airâ€“Water Interfaces. <i>Langmuir</i> , 2012, 28, 12753-12761.	1.6	11
156	Coupling of evaporative fluxes from drying porous surfaces with air boundary layer: Characteristics of evaporation from discrete pores. <i>Water Resources Research</i> , 2012, 48, .	1.7	152
157	Spatial characterization of root reinforcement at stand scale: Theory and case study. <i>Geomorphology</i> , 2012, 171-172, 190-200.	1.1	88
158	Hydromechanical triggering of landslides: From progressive local failures to mass release. <i>Water Resources Research</i> , 2012, 48, .	1.7	82
159	Characteristics of acoustic emissions induced by fluid front displacement in porous media. <i>Water Resources Research</i> , 2012, 48, .	1.7	27
160	Pore scale mechanisms for enhanced vapor transport through partially saturated porous media. <i>Water Resources Research</i> , 2012, 48, .	1.7	53
161	Sources and characteristics of acoustic emissions from mechanically stressed geologic granular media â€“ A review. <i>Earth-Science Reviews</i> , 2012, 112, 97-114.	4.0	133
162	Interfacial jumps and pressure bursts during fluid displacement in interacting irregular capillaries. <i>Journal of Colloid and Interface Science</i> , 2012, 377, 406-415.	5.0	114

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163	Pullout tests of root analogs and natural root bundles in soil: Experiments and modeling. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	74
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165	Evaporation suppression from water reservoirs: Efficiency considerations of partial covers. <i>Water Resources Research</i> , 2011, 47, .	1.7	57
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