

# Ran Holtzman

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

1,066  
citations

516561

16  
h-index

434063

31  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1126  
citing authors

#	ARTICLE	IF	CITATIONS
1	Onset of convective instability in an inclined porous medium. <i>Physics of Fluids</i> , 2022, 34, 014104.	1.6	3
2	Use of biochar to manage soil salts and water: Effects and mechanisms. <i>Catena</i> , 2022, 211, 106018.	2.2	15
3	Solute Driven Transient Convection in Layered Porous Media. <i>Springer Proceedings in Energy</i> , 2021, , 3-9.	0.2	0
4	Wormholing in Anisotropic Media: Pore-Scale Effect on Large-Scale Patterns. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093659.	1.5	8
5	Onset of transient convection in a porous medium with an embedded low-permeability layer. <i>International Journal of Greenhouse Gas Control</i> , 2021, 112, 103490.	2.3	2
6	Reactive Flow and Homogenization in Anisotropic Media. <i>Water Resources Research</i> , 2020, 56, e2020WR027518.	1.7	10
7	The origin of hysteresis and memory of two-phase flow in disordered media. <i>Communications Physics</i> , 2020, 3, .	2.0	9
8	Impact of matrix deformations on drying of granular materials. <i>International Journal of Heat and Mass Transfer</i> , 2020, 153, 119634.	2.5	3
9	Onset of Convective Instability in a Porous Medium with a Low-Permeability Layer. , 2020, , .		0
10	Comprehensive comparison of pore-scale models for multiphase flow in porous media. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13799-13806.	3.3	162
11	Immiscible fluid displacement in porous media with spatially correlated particle sizes. <i>Advances in Water Resources</i> , 2019, 128, 158-167.	1.7	18
12	Geochemical Processes During Managed Aquifer Recharge With Desalinated Seawater. <i>Water Resources Research</i> , 2018, 54, 978-994.	1.7	32
13	Reactive transport under stress: Permeability evolution in deformable porous media. <i>Earth and Planetary Science Letters</i> , 2018, 493, 198-207.	1.8	26
14	Managed aquifer recharge with reverse-osmosis desalinated seawater: modeling the spreading in groundwater using stable water isotopes. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 6323-6333.	1.9	12
15	The effect of gravitational settling on concentration profiles and dispersion within and above fractured media. <i>International Journal of Multiphase Flow</i> , 2018, 106, 220-227.	1.6	3
16	Drying and percolation in correlated porous media. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	16
17	Impact of spatially correlated pore-scale heterogeneity on drying porous media. <i>Water Resources Research</i> , 2017, 53, 5645-5658.	1.7	22
18	Drying in a microfluidic chip: experiments and simulations. <i>Scientific Reports</i> , 2017, 7, 15572.	1.6	24

#	ARTICLE	IF	CITATIONS
19	Dispersive transport and symmetry of the dispersion tensor in porous media. <i>Physical Review E</i> , 2017, 95, 043103.	0.8	4
20	A Percolation-Based Approach to Scaling Infiltration and Evapotranspiration. <i>Water (Switzerland)</i> , 2017, 9, 104.	1.2	10
21	Monitoring and modeling infiltration-recharge dynamics of managed aquifer recharge with desalinated seawater. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 4479-4493.	1.9	39
22	Effects of Pore-Scale Disorder on Fluid Displacement in Partially-Wettable Porous Media. <i>Scientific Reports</i> , 2016, 6, 36221.	1.6	94
23	Wettability Stabilizes Fluid Invasion into Porous Media via Nonlocal, Cooperative Pore Filling. <i>Physical Review Letters</i> , 2015, 115, 164501.	2.9	144
24	Micromechanical model of weakly-cemented sediments. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2012, 36, 944-958.	1.7	9
25	Capillary Fracturing in Granular Media. <i>Physical Review Letters</i> , 2012, 108, 264504.	2.9	93
26	Thermodynamic and hydrodynamic constraints on overpressure caused by hydrate dissociation: A pore-scale model. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	26
27	Frictional granular mechanics: A variational approach. <i>International Journal for Numerical Methods in Engineering</i> , 2010, 81, 1259-1280.	1.5	10
28	Crossover from fingering to fracturing in deformable disordered media. <i>Physical Review E</i> , 2010, 82, 046305.	0.8	75
29	Mechanical properties of granular materials: A variational approach to grain-scale simulations. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2009, 33, 391-404.	1.7	23
30	Micromechanics of Hydrate Dissociation in Marine Sediments by Grain-Scale Simulations. , 2008, , .		3
31	Waterflood Surveillance and Control: Incorporating Hall Plot and Slope Analysis. , 2005, , .		17
32	Quantifying Ground Water Inputs along the Lower Jordan River. <i>Journal of Environmental Quality</i> , 2005, 34, 897-906.	1.0	24
33	Management scenarios for the Jordan River salinity crisis. <i>Applied Geochemistry</i> , 2005, 20, 2138-2153.	1.4	17
34	Sources and Transformations of Nitrogen Compounds along the Lower Jordan River. <i>Journal of Environmental Quality</i> , 2004, 33, 1440-1451.	1.0	21
35	The origin and mechanisms of salinization of the lower Jordan river. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 1989-2006.	1.6	89
36	THE LOWER JORDAN RIVER. , 2004, , .		0

#	ARTICLE	IF	CITATIONS
37	Water Sources and Quality along the Lower Jordan River, Regional Study. , 2002, , 127-148.		3