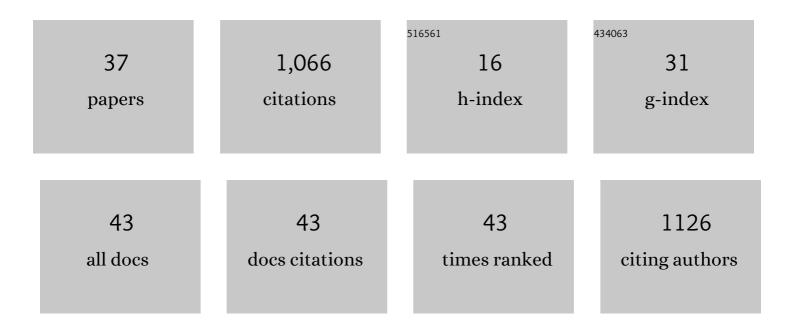
## Ran Holtzman

List of Publications by Year in descending order

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Ραν Ηριτζμαν

#	Article	IF	CITATIONS
1	Comprehensive comparison of pore-scale models for multiphase flow in porous media. Proceedings of the United States of America, 2019, 116, 13799-13806.	3.3	162
2	Wettability Stabilizes Fluid Invasion into Porous Media via Nonlocal, Cooperative Pore Filling. Physical Review Letters, 2015, 115, 164501.	2.9	144
3	Effects of Pore-Scale Disorder on Fluid Displacement in Partially-Wettable Porous Media. Scientific Reports, 2016, 6, 36221.	1.6	94
4	Capillary Fracturing in Granular Media. Physical Review Letters, 2012, 108, 264504.	2.9	93
5	The origin and mechanisms of salinization of the lower Jordan river. Geochimica Et Cosmochimica Acta, 2004, 68, 1989-2006.	1.6	89
6	Crossover from fingering to fracturing in deformable disordered media. Physical Review E, 2010, 82, 046305.	0.8	75
7	Monitoring and modeling infiltration–recharge dynamics of managed aquifer recharge with desalinated seawater. Hydrology and Earth System Sciences, 2017, 21, 4479-4493.	1.9	39
8	Geochemical Processes During Managed Aquifer Recharge With Desalinated Seawater. Water Resources Research, 2018, 54, 978-994.	1.7	32
9	Thermodynamic and hydrodynamic constraints on overpressure caused by hydrate dissociation: A pore-scale model. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	26
10	Reactive transport under stress: Permeability evolution in deformable porous media. Earth and Planetary Science Letters, 2018, 493, 198-207.	1.8	26
11	Quantifying Ground Water Inputs along the Lower Jordan River. Journal of Environmental Quality, 2005, 34, 897-906.	1.0	24
12	Drying in a microfluidic chip: experiments and simulations. Scientific Reports, 2017, 7, 15572.	1.6	24
13	Mechanical properties of granular materials: A variational approach to grainâ€scale simulations. International Journal for Numerical and Analytical Methods in Geomechanics, 2009, 33, 391-404.	1.7	23
14	Impact of spatially correlated poreâ€scale heterogeneity on drying porous media. Water Resources Research, 2017, 53, 5645-5658.	1.7	22
15	Sources and Transformations of Nitrogen Compounds along the Lower Jordan River. Journal of Environmental Quality, 2004, 33, 1440-1451.	1.0	21
16	Immiscible fluid displacement in porous media with spatially correlated particle sizes. Advances in Water Resources, 2019, 128, 158-167.	1.7	18
17	Waterflood Surveillance and Control: Incorporating Hall Plot and Slope Analysis. , 2005, , .		17
18	Management scenarios for the Jordan River salinity crisis. Applied Geochemistry, 2005, 20, 2138-2153.	1.4	17

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#	Article	IF	CITATIONS
19	Drying and percolation in correlated porous media. Physical Review Fluids, 2018, 3, .	1.0	16
20	Use of biochar to manage soil salts and water: Effects and mechanisms. Catena, 2022, 211, 106018.	2.2	15
21	Managed aquifer recharge with reverse-osmosis desalinated seawater: modeling the spreading in groundwater using stable water isotopes. Hydrology and Earth System Sciences, 2018, 22, 6323-6333.	1.9	12
22	Frictional granular mechanics: A variational approach. International Journal for Numerical Methods in Engineering, 2010, 81, 1259-1280.	1.5	10
23	A Percolationâ€Based Approach to Scaling Infiltration and Evapotranspiration. Water (Switzerland), 2017, 9, 104.	1.2	10
24	Reactive Flow and Homogenization in Anisotropic Media. Water Resources Research, 2020, 56, e2020WR027518.	1.7	10
25	Micromechanical model of weakly emented sediments. International Journal for Numerical and Analytical Methods in Geomechanics, 2012, 36, 944-958.	1.7	9
26	The origin of hysteresis and memory of two-phase flow in disordered media. Communications Physics, 2020, 3, .	2.0	9
27	Wormholing in Anisotropic Media: Poreâ€Scale Effect on Largeâ€Scale Patterns. Geophysical Research Letters, 2021, 48, e2021GL093659.	1.5	8
28	Dispersive transport and symmetry of the dispersion tensor in porous media. Physical Review E, 2017, 95, 043103.	0.8	4
29	Micromechanics of Hydrate Dissociation in Marine Sediments by Grain-Scale Simulations. , 2008, , .		3
30	The effect of gravitational settling on concentration profiles and dispersion within and above fractured media. International Journal of Multiphase Flow, 2018, 106, 220-227.	1.6	3
31	Impact of matrix deformations on drying of granular materials. International Journal of Heat and Mass Transfer, 2020, 153, 119634.	2.5	3
32	Water Sources and Quality along the Lower Jordan River, Regional Study. , 2002, , 127-148.		3
33	Onset of convective instability in an inclined porous medium. Physics of Fluids, 2022, 34, 014104.	1.6	3
34	Onset of transient convection in a porous medium with an embedded low-permeability layer. International Journal of Greenhouse Gas Control, 2021, 112, 103490.	2.3	2
35	THE LOWER JORDAN RIVER. , 2004, , .		0
36	Solute Driven Transient Convection in Layered Porous Media. Springer Proceedings in Energy, 2021, , 3-9.	0.2	0

Onset of Convective Instability in a Porous Medium with a Low-Permeability Layer. , 2020, , . 0	#	Article	IF	CITATIONS
	37	Onset of Convective Instability in a Porous Medium with a Low-Permeability Layer. , 2020, , .		Ο