Uri Shavit

List of Publications by Year
in descending order

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42 papers	1,459 citations	361296 20 h-index	315616 38 g-index
43 all docs	43 docs citations	43 times ranked	1980 citing authors

#	Article	IF	Citations
1	Flow enhances photosynthesis in marine benthic autotrophs by increasing the efflux of oxygen from the organism to the water. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2527-2531.	3.3	180
2	The Sponge Pump: The Role of Current Induced Flow in the Design of the Sponge Body Plan. PLoS ONE, 2011, 6, e27787.	1.1	130
3	The origin and mechanisms of salinization of the lower Jordan river. Geochimica Et Cosmochimica Acta, 2004, 68, 1989-2006.	1.6	89
4	Modeling flow in coral communities with and without waves: A synthesis of porous media and canopy flow approaches. Limnology and Oceanography, 2008, 53, 2668-2680.	1.6	83
5	Preliminary investigations of ultrasound induced acoustic streaming using particle image velocimetry. Ultrasonics, 2001, 39, 153-156.	2.1	79
6	Model Demonstrating the Potential for Coupled Nitrification Denitrification in Soil Aggregates. Environmental Science & Technology, 2005, 39, 4180-4188.	4.6	79
7	Benefit of pulsation in soft corals. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8978-8983.	3.3	70
8	Intensity Capping: a simple method to improve cross-correlation PIV results. Experiments in Fluids, 2007, 42, 225-240.	1.1	69
9	Release characteristics of a new controlled release fertilizer. Journal of Controlled Release, 1997, 43, 131-138.	4.8	59
10	Water Retention Curves of Biofilmâ€Affected Soils using Xanthan as an Analogue. Soil Science Society of America Journal, 2012, 76, 61-69.	1.2	58
11	Oil spill effects on soil hydrophobicity and related properties in a hyper-arid region. Geoderma, 2018, 312, 114-120.	2.3	48
12	Impact of ambient conditions on evaporation from porous media. Water Resources Research, 2014, 50, 6696-6712.	1.7	41
13	The geochemistry of groundwater resources in the Jordan Valley: The impact of the Rift Valley brines. Applied Geochemistry, 2007, 22, 494-514.	1.4	33
14	Dispersive Stresses at the Canopy Upstream Edge. Boundary-Layer Meteorology, 2011, 139, 333-351.	1.2	31
15	Modeling biofilm dynamics and hydraulic properties in variably saturated soils using a channel network model. Water Resources Research, 2014, 50, 5678-5697.	1.7	31
16	Myxozoan polar tubules display structural and functional variation. Parasites and Vectors, 2016, 9, 549.	1.0	29
17	A numerical study on the influence of fractured regions on lake/groundwater interaction; the Lake Kinneret (Sea of Galilee) case. Journal of Hydrology, 2003, 283, 225-243.	2.3	28
18	Solute diffusion coefficient in the internal medium of a new gel based controlled release fertilizer. Journal of Controlled Release, 1995, 37, 21-32.	4.8	24

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19	Quantifying Ground Water Inputs along the Lower Jordan River. Journal of Environmental Quality, 2005, 34, 897-906.	1.0	24
20	Sources and Transformations of Nitrogen Compounds along the Lower Jordan River. Journal of Environmental Quality, 2004, 33, 1440-1451.	1.0	21
21	A Channel Network Model as a Framework for Characterizing Variably Saturated Flow in Biofilmâ€Affected Soils. Vadose Zone Journal, 2013, 12, 1-15.	1.3	20
22	The laminar flow field at the interface of a Sierpinski carpet configuration. Water Resources Research, 2007, 43, .	1.7	19
23	The location of deep salinity sources in the Israeli Coastal aquifer. Journal of Hydrology, 2001, 250, 63-77.	2.3	18
24	Special Issue on â€œTransport Phenomena at the Interface Between Fluid and Porous Domainsâ€. Transport in Porous Media, 2009, 78, 327-330.	1.2	18
25	Management scenarios for the Jordan River salinity crisis. Applied Geochemistry, 2005, 20, 2138-2153.	1.4	17
26	The Influence of Biofilm Spatial Distribution Scenarios on Hydraulic Conductivity of Unsaturated Soils. Vadose Zone Journal, 2009, 8, 1080-1084.	1.3	16
27	Canopy edge flow: A momentum balance analysis. Water Resources Research, 2015, 51, 2081-2095.	1.7	16
28	The Role of Mixed Convection and Hydrodynamic Dispersion During CO₂ Dissolution in Saline Aquifers: A Numerical Study. Water Resources Research, 2022, 58, .	1.7	16
29	A phenomenological closure model of the normal dispersive stresses. Water Resources Research, 2013, 49, 8222-8233.	1.7	14
30	Vertical variations of coral reef drag forces. Journal of Geophysical Research: Oceans, 2016, 121, 3549-3563.	1.0	14
31	The nematocyst's sting is driven by the tubule moving front. Journal of the Royal Society Interface, 2017, 14, 20160917.	1.5	14
32	An Apparent Interface Location as a Tool to Solve the Porous Interface Flow Problem. Transport in Porous Media, 2009, 78, 509-524.	1.2	13
33	The Role of Water Flow and Dispersive Fluxes in the Dissolution of CO₂ in Deep Saline Aquifers. Water Resources Research, 2020, 56, e2020WR028184.	1.7	13
34	The Effect of Water Depth and Internal Geometry on the Turbulent Flow Inside a Coral Reef. Journal of Geophysical Research: Oceans, 2019, 124, 3508-3522.	1.0	11
35	Coral tentacle elasticity promotes an<i>out-of-phase</i>motion that improves mass transfer. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20200180.	1.2	11
36	Evasive plankton: Sizeâ€independent particle capture by ascidians. Limnology and Oceanography, 2021, 66, 1009-1020.	1.6	6

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37	A solution of the laminar flow for a gradual transition between porous and fluid domains. Water Resources Research, 2010, 46, .	1.7	5
38	The Levantine jellyfish Rhopilema nomadica and Rhizostoma pulmo swim faster against the flow than with the flow. Scientific Reports, 2019, 9, 20337.	1.6	5
39	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
40	Error Estimates of Double-Averaged Flow Statistics due to Sub-Sampling in an Irregular Canopy Model. Boundary-Layer Meteorology, 2021, 179, 403-422.	1.2	3
41	The Small-Scale Flow Field Around Dipsastraea favus Corals. Frontiers in Marine Science, 2022, 9, .	1.2	1
42	Theoretical and Numerical Study of Flow at the Interface of Porous Media. Geophysical Monograph Series, 0, , 65-80.	0.1	0