

# Shai Arnon

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,707  
citations

304743

22  
h-index

289244

40  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2460  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rethinking wastewater risks and monitoring in light of the COVID-19 pandemic. <i>Nature Sustainability</i> , 2020, 3, 981-990.	23.7	195
2	Transport of Testosterone and Estrogen from Dairy-Farm Waste Lagoons to Groundwater. <i>Environmental Science &amp; Technology</i> , 2008, 42, 5521-5526.	10.0	132
3	Why endocrine disrupting chemicals (EDCs) challenge traditional risk assessment and how to respond. <i>Journal of Hazardous Materials</i> , 2015, 286, 589-611.	12.4	118
4	Impact of losing and gaining streamflow conditions on hyporheic exchange fluxes induced by dune-shaped bed forms. <i>Water Resources Research</i> , 2014, 50, 1895-1907.	4.2	113
5	Is the Hyporheic Zone Relevant beyond the Scientific Community?. <i>Water (Switzerland)</i> , 2019, 11, 2230.	2.7	113
6	A global analysis of terrestrial plant litter dynamics in non-perennial waterways. <i>Nature Geoscience</i> , 2018, 11, 497-503.	12.9	108
7	Simulating rewetting events in intermittent rivers and ephemeral streams: A global analysis of leached nutrients and organic matter. <i>Global Change Biology</i> , 2019, 25, 1591-1611.	9.5	71
8	A conceptual framework for understanding the biogeochemistry of dry riverbeds through the lens of soil science. <i>Earth-Science Reviews</i> , 2019, 188, 441-453.	9.1	54
9	The effect of losing and gaining flow conditions on hyporheic exchange in heterogeneous streambeds. <i>Water Resources Research</i> , 2016, 52, 7460-7477.	4.2	52
10	Sediment Respiration Pulses in Intermittent Rivers and Ephemeral Streams. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1251-1263.	4.9	48
11	Salt uptake and evapotranspiration under arid conditions in horizontal subsurface flow constructed wetland planted with halophytes. <i>Ecological Engineering</i> , 2014, 70, 282-286.	3.6	45
12	Biophysicochemical process coupling controls nitrogen use by benthic biofilms. <i>Limnology and Oceanography</i> , 2007, 52, 1665-1671.	3.1	41
13	Influence of Algal Community Structure on Denitrification Rates in Periphyton Cultivated on Artificial Substrata. <i>Microbial Ecology</i> , 2008, 56, 140-152.	2.8	41
14	Effects of overlying velocity on periphyton structure and denitrification. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	38
15	Evaluation of soil flushing potential for clean-up of desert soil contaminated by industrial wastewater. <i>Chemosphere</i> , 2006, 62, 17-25.	8.2	35
16	Interactions Between Suspended Kaolinite Deposition and Hyporheic Exchange Flux Under Losing and Gaining Flow Conditions. <i>Geophysical Research Letters</i> , 2018, 45, 4077-4085.	4.0	34
17	Occurrence and fate of endocrine disrupting compounds in wastewater treatment plants in Israel and the Palestinian West Bank. <i>Chemosphere</i> , 2016, 155, 86-93.	8.2	28
18	Environmental filtering and community delineation in the streambed ecotone. <i>Scientific Reports</i> , 2018, 8, 15871.	3.3	28

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19	Impact of overlying water velocity on ammonium uptake by benthic biofilms. <i>Hydrological Processes</i> , 2013, 27, 570-578.	2.6	26
20	Impact of microbial activity on the hydraulic properties of fractured chalk. <i>Journal of Contaminant Hydrology</i> , 2005, 76, 315-336.	3.3	25
21	Effects of overlying velocity, particle size, and biofilm growth on streamâ€“subsurface exchange of particles. <i>Hydrological Processes</i> , 2010, 24, 108-114.	2.6	25
22	Nutrient uptake and macroinvertebrate community structure in a highly regulated Mediterranean stream receiving treated wastewater. <i>Aquatic Sciences</i> , 2015, 77, 623-637.	1.5	25
23	Towards an improved understanding of biogeochemical processes across surface-groundwater interactions in intermittent rivers and ephemeral streams. <i>Earth-Science Reviews</i> , 2021, 220, 103724.	9.1	24
24	Infiltration Mechanism Controls Nitrification and Denitrification Processes under Dairy Waste Lagoon. <i>Journal of Environmental Quality</i> , 2012, 41, 1623-1632.	2.0	23
25	Impact of treated wastewater reuse and floods on water quality and fish health within a water reservoir in an arid climate. <i>Science of the Total Environment</i> , 2016, 559, 268-281.	8.0	22
26	Influence of Streamâ€“Subsurface Exchange Flux and Bacterial Biofilms on Oxygen Consumption Under Nutrientâ€“Rich Conditions. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2021-2034.	3.0	21
27	Impact of Bed Form Celerity on Oxygen Dynamics in the Hyporheic Zone. <i>Water (Switzerland)</i> , 2020, 12, 62.	2.7	20
28	The effect of unsteady streamflow and stream-groundwater interactions on oxygen consumption in a sandy streambed. <i>Scientific Reports</i> , 2019, 9, 19735.	3.3	19
29	Impacts of Suspended Clay Particle Deposition on Sandâ€“Bed Morphodynamics. <i>Water Resources Research</i> , 2020, 56, e2019WR027010.	4.2	18
30	Biodegradation of labile dissolved organic carbon under losing and gaining streamflow conditions simulated in a laboratory flume. <i>Limnology and Oceanography</i> , 2016, 61, 1839-1852.	3.1	16
31	Influence of Flow Conditions and System Geometry on Nitrate Use by Benthic Biofilms: Implications for Nutrient Mitigation. <i>Environmental Science &amp; Technology</i> , 2007, 41, 8142-8148.	10.0	15
32	Fine Sediment Deposition and Filtration Under Losing and Gaining Flow Conditions: A Particle Tracking Model Approach. <i>Water Resources Research</i> , 2020, 56, e2019WR026057.	4.2	14
33	Dynamics of Hyporheic Exchange Flux and Fine Particle Deposition Under Moving Bedforms. <i>Water Resources Research</i> , 2021, 57, e2020WR028541.	4.2	14
34	Biodegradation of 2,4,6-Tribromophenol during Transport in Fractured Chalk. <i>Environmental Science &amp; Technology</i> , 2005, 39, 748-755.	10.0	12
35	A simple model for estimating the concentrations of natural estrogens in raw wastewater. <i>Science of the Total Environment</i> , 2017, 575, 588-594.	8.0	11
36	The effect of tertiary treated wastewater on fish growth and health: Laboratory-scale experiment with <i>Poecilia reticulata</i> (guppy). <i>PLoS ONE</i> , 2019, 14, e0217927.	2.5	11

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37	Two-dimensional distribution of microbial activity and flow patterns within naturally fractured chalk. <i>Journal of Contaminant Hydrology</i> , 2005, 79, 165-186.	3.3	10
38	The riverine bioreactor: An integrative perspective on biological decomposition of organic matter across riverine habitats. <i>Science of the Total Environment</i> , 2021, 772, 145494.	8.0	10
39	A Novel Framework for Simulating Particle Deposition With Moving Bedforms. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	10
40	High-Resolution Integrated Transport Model for Studying Surface Water-Groundwater Interaction. <i>Ground Water</i> , 2021, 59, 488-502.	1.3	8
41	Endocrine disrupting compounds in streams in Israel and the Palestinian West Bank: Implications for transboundary basin management. <i>Journal of Environmental Management</i> , 2017, 204, 355-364.	7.8	7
42	Tertiary-treated wastewater as a potential water source for sustainable aquaculture: A laboratory-scale experiment with <i>Cyprinus carpio</i> . <i>Aquaculture</i> , 2020, 522, 735161.	3.5	7
43	Treated municipal wastewater as a water source for sustainable aquaculture: A review. <i>Reviews in Aquaculture</i> , 2022, 14, 362-377.	9.0	6
44	Bedform segregation and locking increase storage of natural and synthetic particles in rivers. <i>Nature Communications</i> , 2021, 12, 7315.	12.8	5
45	Modeling chemical gradients in sediments under losing and gaining flow conditions: The GRADIENT code. <i>Advances in Water Resources</i> , 2018, 112, 72-82.	3.8	4
46	Impact of streambed morphology on the abundance and activity of ammonia-oxidizing bacteria. <i>FEMS Microbiology Ecology</i> , 2014, 90, 175-183.	2.7	2
47	The Effect of Microbial Activity on Biodegradation of 2,4,6-Tribromophenol and Flow in Naturally Fractured Chalk Cores. <i>Geophysical Monograph Series</i> , 0, , 195-207.	0.1	1
48	Interpretation of a multi-tracer test in fractured chalk using models of parallel plates. <i>Developments in Water Science</i> , 2002, 47, 351-358.	0.1	0