Shai Arnon

List of Publications by Year
in descending order

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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	Treated municipal wastewater as a water source for sustainable aquaculture: A review. Reviews in Aquaculture, 2022, 14, 362-377.	9.0	6
2	A Novel Framework for Simulating Particle Deposition With Moving Bedforms. Geophysical Research Letters, 2022, 49, .	4.0	10
3	Highâ€Resolution Integrated Transport Model for Studying Surface Waterâ€“Groundwater Interaction. Ground Water, 2021, 59, 488-502.	1.3	8
4	Dynamics of Hyporheic Exchange Flux and Fine Particle Deposition Under Moving Bedforms. Water Resources Research, 2021, 57, e2020WR028541.	4.2	14
5	The riverine bioreactor: An integrative perspective on biological decomposition of organic matter across riverine habitats. Science of the Total Environment, 2021, 772, 145494.	8.0	10
6	Towards an improved understanding of biogeochemical processes across surface-groundwater interactions in intermittent rivers and ephemeral streams. Earth-Science Reviews, 2021, 220, 103724.	9.1	24
7	Bedform segregation and locking increase storage of natural and synthetic particles in rivers. Nature Communications, 2021, 12, 7315.	12.8	5
8	Rethinking wastewater risks and monitoring in light of the COVID-19 pandemic. Nature Sustainability, 2020, 3, 981-990.	23.7	195
9	Impact of Bed Form Celerity on Oxygen Dynamics in the Hyporheic Zone. Water (Switzerland), 2020, 12, 62.	2.7	20
10	Fine Sediment Deposition and Filtration Under Losing and Gaining Flow Conditions: A Particle Tracking Model Approach. Water Resources Research, 2020, 56, e2019WR026057.	4.2	14
11	Tertiary-treated wastewater as a potential water source for sustainable aquaculture: A laboratory-scale experiment with Cyprinus carpio. Aquaculture, 2020, 522, 735161.	3.5	7
12	Impacts of Suspended Clay Particle Deposition on Sandâ€Bed Morphodynamics. Water Resources Research, 2020, 56, e2019WR027010.	4.2	18
13	Sediment Respiration Pulses in Intermittent Rivers and Ephemeral Streams. Global Biogeochemical Cycles, 2019, 33, 1251-1263.	4.9	48
14	Is the Hyporheic Zone Relevant beyond the Scientific Community?. Water (Switzerland), 2019, 11, 2230.	2.7	113
15	The effect of tertiary treated wastewater on fish growth and health: Laboratory-scale experiment with Poecilia reticulata (guppy). PLoS ONE, 2019, 14, e0217927.	2.5	11
16	The effect of unsteady streamflow and stream-groundwater interactions on oxygen consumption in a sandy streambed. Scientific Reports, 2019, 9, 19735.	3.3	19
17	Simulating rewetting events in intermittent rivers and ephemeral streams: A global analysis of leached nutrients and organic matter. Global Change Biology, 2019, 25, 1591-1611.	9.5	71
18	A conceptual framework for understanding the biogeochemistry of dry riverbeds through the lens of soil science. Earth-Science Reviews, 2019, 188, 441-453.	9.1	54

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19	Modeling chemical gradients in sediments under losing and gaining flow conditions: The GRADIENT code. Advances in Water Resources, 2018, 112, 72-82.	3.8	4
20	Environmental filtering and community delineation in the streambed ecotone. Scientific Reports, 2018, 8, 15871.	3.3	28
21	A global analysis of terrestrial plant litter dynamics in non-perennial waterways. Nature Geoscience, 2018, 11, 497-503.	12.9	108
22	Interactions Between Suspended Kaolinite Deposition and Hyporheic Exchange Flux Under Losing and Gaining Flow Conditions. Geophysical Research Letters, 2018, 45, 4077-4085.	4.0	34
23	Influence of Streamâ€Subsurface Exchange Flux and Bacterial Biofilms on Oxygen Consumption Under Nutrientâ€Rich Conditions. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2021-2034.	3.0	21
24	Endocrine disrupting compounds in streams in Israel and the Palestinian West Bank: Implications for transboundary basin management. Journal of Environmental Management, 2017, 204, 355-364.	7.8	7
25	A simple model for estimating the concentrations of natural estrogens in raw wastewater. Science of the Total Environment, 2017, 575, 588-594.	8.0	11
26	Occurrence and fate of endocrine disrupting compounds in wastewater treatment plants in Israel and the Palestinian West Bank. Chemosphere, 2016, 155, 86-93.	8.2	28
27	Impact of treated wastewater reuse and floods on water quality and fish health within a water reservoir in an arid climate. Science of the Total Environment, 2016, 559, 268-281.	8.0	22
28	Biodegradation of labile dissolved organic carbon under losing and gaining streamflow conditions simulated in a laboratory flume. Limnology and Oceanography, 2016, 61, 1839-1852.	3.1	16
29	The effect of losing and gaining flow conditions on hyporheic exchange in heterogeneous streambeds. Water Resources Research, 2016, 52, 7460-7477.	4.2	52
30	Why endocrine disrupting chemicals (EDCs) challenge traditional risk assessment and how to respond. Journal of Hazardous Materials, 2015, 286, 589-611.	12.4	118
31	Nutrient uptake and macroinvertebrate community structure in a highly regulated Mediterranean stream receiving treated wastewater. Aquatic Sciences, 2015, 77, 623-637.	1.5	25
32	Impact of streambed morphology on the abundance and activity of ammonia-oxidizing bacteria. FEMS Microbiology Ecology, 2014, 90, 175-183.	2.7	2
33	Salt uptake and evapotranspiration under arid conditions in horizontal subsurface flow constructed wetland planted with halophytes. Ecological Engineering, 2014, 70, 282-286.	3.6	45
34	Impact of losing and gaining streamflow conditions on hyporheic exchange fluxes induced by duneâ€shaped bed forms. Water Resources Research, 2014, 50, 1895-1907.	4.2	113
35	Impact of overlying water velocity on ammonium uptake by benthic biofilms. Hydrological Processes, 2013, 27, 570-578.	2.6	26
36	Infiltration Mechanism Controls Nitrification and Denitrification Processes under Dairy Waste Lagoon. Journal of Environmental Quality, 2012, 41, 1623-1632.	2.0	23

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37	Effects of overlying velocity, particle size, and biofilm growth on streamâ€“subsurface exchange of particles. Hydrological Processes, 2010, 24, 108-114.	2.6	25
38	Influence of Algal Community Structure on Denitrification Rates in Periphyton Cultivated on Artificial Substrata. Microbial Ecology, 2008, 56, 140-152.	2.8	41
39	Transport of Testosterone and Estrogen from Dairy-Farm Waste Lagoons to Groundwater. Environmental Science & Technology, 2008, 42, 5521-5526.	10.0	132
40	Biophysicochemical process coupling controls nitrogen use by benthic biofilms. Limnology and Oceanography, 2007, 52, 1665-1671.	3.1	41
41	Influence of Flow Conditions and System Geometry on Nitrate Use by Benthic Biofilms: Implications for Nutrient Mitigation. Environmental Science & Technology, 2007, 41, 8142-8148.	10.0	15
42	Effects of overlying velocity on periphyton structure and denitrification. Journal of Geophysical Research, 2007, 112, .	3.3	38
43	Evaluation of soil flushing potential for clean-up of desert soil contaminated by industrial wastewater. Chemosphere, 2006, 62, 17-25.	8.2	35
44	Impact of microbial activity on the hydraulic properties of fractured chalk. Journal of Contaminant Hydrology, 2005, 76, 315-336.	3.3	25
45	Two-dimensional distribution of microbial activity and flow patterns within naturally fractured chalk. Journal of Contaminant Hydrology, 2005, 79, 165-186.	3.3	10
46	Biodegradation of 2,4,6-Tribromophenol during Transport in Fractured Chalk. Environmental Science & Technology, 2005, 39, 748-755.	10.0	12
47	Interpretation of a multi-tracer test in fractured chalk using models of parallel plates. Developments in Water Science, 2002, 47, 351-358.	0.1	0
48	The Effect of Microbial Activity on Biodegradation of 2,4,6-Tribromophenol and Flow in Naturally Fractured Chalk Cores. Geophysical Monograph Series, 0, , 195-207.	0.1	1