

Audrey H Sawyer

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

2,222
citations

218677

26
h-index

223800

46
g-index

49
all docs

49
docs citations

49
times ranked

2101
citing authors

#	ARTICLE	IF	CITATIONS
1	Submarine groundwater discharge impacts on coastal nutrient biogeochemistry. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 307-323.	29.7	210
2	Impact of dam operations on hyporheic exchange in the riparian zone of a regulated river. <i>Hydrological Processes</i> , 2009, 23, 2129-2137.	2.6	170
3	Hyporheic flow and residence time distributions in heterogeneous cross-bedded sediment. <i>Water Resources Research</i> , 2009, 45, .	4.2	158
4	Hyporheic exchange due to channel-spanning logs. <i>Water Resources Research</i> , 2011, 47, .	4.2	106
5	Multiscale hyporheic exchange through strongly heterogeneous sediments. <i>Water Resources Research</i> , 2015, 51, 9127-9140.	4.2	102
6	Hydrogeomorphology of the hyporheic zone: Stream solute and fine particle interactions with a dynamic streambed. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	99
7	Dynamics of hyporheic flow and heat transport across a bed-to-bank continuum in a large regulated river. <i>Water Resources Research</i> , 2011, 47, .	4.2	95
8	Continental patterns of submarine groundwater discharge reveal coastal vulnerabilities. <i>Science</i> , 2016, 353, 705-707.	12.6	87
9	Enhanced removal of groundwater-borne nitrate in heterogeneous aquatic sediments. <i>Geophysical Research Letters</i> , 2015, 42, 403-410.	4.0	83
10	A comparative experimental and multiphysics computational fluid dynamics study of coupled surface-subsurface flow in bed forms. <i>Water Resources Research</i> , 2012, 48, .	4.2	82
11	Fresh Submarine Groundwater Discharge to the Near-Global Coast. <i>Geophysical Research Letters</i> , 2019, 46, 5855-5863.	4.0	72
12	Hyporheic temperature dynamics and heat exchange near channel-spanning logs. <i>Water Resources Research</i> , 2012, 48, .	4.2	71
13	Hydrologic dynamics and geochemical responses within a floodplain aquifer and hyporheic zone during Hurricane Sandy. <i>Water Resources Research</i> , 2014, 50, 4877-4892.	4.2	55
14	Glacioeustatic changes in the early and middle Eocene (51-42 Ma): Shallow-water stratigraphy from ODP Leg 189 Site 1171 (South Tasman Rise) and deep-sea $\delta^{18}O$ records. <i>Bulletin of the Geological Society of America</i> , 2005, 117, 1081.	3.3	54
15	Seasonal hyporheic dynamics control coupled microbiology and geochemistry in Colorado River sediments. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2976-2987.	3.0	49
16	Small-scale permeability heterogeneity has negligible effects on nutrient cycling in streambeds. <i>Geophysical Research Letters</i> , 2013, 40, 1118-1122.	4.0	48
17	Effect of experimental wood addition on hyporheic exchange and thermal dynamics in a losing meadow stream. <i>Water Resources Research</i> , 2012, 48, .	4.2	44
18	Heterogeneity in Hyporheic Flow, Pore Water Chemistry, and Microbial Community Composition in an Alpine Streambed. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3465-3478.	3.0	41

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19	Stratigraphic controls on fluid and solute fluxes across the sediment-water interface of an estuary. <i>Limnology and Oceanography</i> , 2014, 59, 997-1010.	3.1	40
20	Tidal controls on riverbed denitrification along a tidal freshwater zone. <i>Water Resources Research</i> , 2017, 53, 799-816.	4.2	39
21	Dynamic response of surface water-groundwater exchange to currents, tides, and waves in a shallow estuary. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 1749-1758.	2.6	36
22	Modeling Influence of Sediment Heterogeneity on Nutrient Cycling in Streambeds. <i>Water Resources Research</i> , 2019, 55, 4082-4095.	4.2	33
23	Surface water-groundwater connectivity in deltaic distributary channel networks. <i>Geophysical Research Letters</i> , 2015, 42, 10,299.	4.0	31
24	From soil to sea: the role of groundwater in coastal critical zone processes. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 706-726.	6.5	31
25	Surface water-groundwater exchange dynamics in a tidal freshwater zone. <i>Hydrological Processes</i> , 2016, 30, 739-750.	2.6	31
26	Nitrate Removal Within Heterogeneous Riparian Aquifers Under Tidal Influence. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085699.	4.0	28
27	Response of submarine hydrologic monitoring instruments to formation pressure changes: Theory and application to Nankai advanced CORs. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	27
28	High-resolution in-situ thermal imaging of microbial mats at El Tatio Geyser, Chile shows coupling between community color and temperature. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	25
29	Hyporheic Zone Microbiome Assembly Is Linked to Dynamic Water Mixing Patterns in Snowmelt-Dominated Headwater Catchments. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3269-3280.	3.0	25
30	Seawater circulation in sediments driven by interactions between seabed topography and fluid density. <i>Water Resources Research</i> , 2013, 49, 1386-1399.	4.2	24
31	Internal Phosphorus Storage in Two Headwater Agricultural Streams in the Lake Erie Basin. <i>Environmental Science & Technology</i> , 2020, 54, 176-183.	10.0	23
32	Methane and nitrous oxide porewater concentrations and surface fluxes of a regulated river. <i>Science of the Total Environment</i> , 2020, 715, 136920.	8.0	20
33	Direct groundwater discharge and vulnerability to hidden nutrient loads along the Great Lakes coast of the United States. <i>Journal of Hydrology</i> , 2017, 554, 331-341.	5.4	19
34	Spectral analysis of continuous redox data reveals geochemical dynamics near the stream-aquifer interface. <i>Hydrological Processes</i> , 2019, 33, 405-413.	2.6	19
35	Seasonal manganese transport in the hyporheic zone of a snowmelt-dominated river (East River,)	2.1	18
36	Time-lapse electrical resistivity imaging of solute transport in a karst conduit. <i>Hydrological Processes</i> , 2015, 29, 4968-4976.	2.6	17

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37	Nitrate Removal Across Ecogeomorphic Zones in Wax Lake Delta, Louisiana (USA). <i>Water Resources Research</i> , 2020, 56, e2019WR026867.	4.2	16
38	Hydraulic and thermal response of groundwater-surface water exchange to flooding in an experimental aquifer. <i>Journal of Hydrology</i> , 2012, 472-473, 184-192.	5.4	15
39	Hydrogeologic Controls of Surface Water-Groundwater Nitrogen Dynamics Within a Tidal Freshwater Zone. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3343-3355.	3.0	15
40	A Model Analysis of the Tidal Engine That Drives Nitrogen Cycling in Coastal Riparian Aquifers. <i>Water Resources Research</i> , 2020, 56, e2019WR025662.	4.2	15
41	Opportunities and Challenges in Computing Fresh Groundwater Discharge to Continental Coastlines: A Multimodel Comparison for the United States Gulf and Atlantic Coasts. <i>Water Resources Research</i> , 2018, 54, 8363-8380.	4.2	13
42	Effect of Heterogeneous Sediment Distributions on Hyporheic Flow in Physical and Numerical Models. <i>Ground Water</i> , 2018, 56, 934-946.	1.3	11
43	Hydrogeology Journal, 2020		
44	Laboratory Flume and Numerical Modeling Experiments Show Log Jams and Branching Channels Increase Hyporheic Exchange. <i>Water Resources Research</i> , 2021, 57, e2021WR030299.	4.2	9
45	Removal of the algal toxin microcystin-LR in permeable coastal sediments: Physical and numerical models. <i>Limnology and Oceanography</i> , 2018, 63, 1593-1604.	3.1	3
46	Groundwater-stream connectivity from minutes to months across United States basins as revealed by spectral analysis. <i>Hydrological Processes</i> , 0, , .	2.6	1
47	The Relationship Between Delta Form and Nitrate Retention Revealed by Numerical Modeling Experiments. <i>Water Resources Research</i> , 2021, 57, .	4.2	1
48	Physical factors limiting access to clean groundwater in Tanzania villages. <i>Journal of Water Sanitation and Hygiene for Development</i> , 2019, 9, 531-539.	1.8	0