Audrey H Sawyer

List of Publications by Year
in descending order

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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. Nature Reviews Earth & Environment, 2021, 2, 307-323.	29.7	210
2	Laboratory Flume and Numerical Modeling Experiments Show Log Jams and Branching Channels Increase Hyporheic Exchange. Water Resources Research, 2021, 57, e2021WR030299.	4.2	9
3	The Relationship Between Delta Form and Nitrate Retention Revealed by Numerical Modeling Experiments. Water Resources Research, 2021, 57, .	4.2	1
4	Internal Phosphorus Storage in Two Headwater Agricultural Streams in the Lake Erie Basin. Environmental Science & Technology, 2020, 54, 176-183.	10.0	23
5	Nitrate Removal Across Ecogeomorphic Zones in Wax Lake Delta, Louisiana (USA). Water Resources Research, 2020, 56, e2019WR026867.	4.2	16
6	Seasonal manganese transport in the hyporheic zone of a snowmelt-dominated river (East River,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	2.1	18
7	Nitrate Removal Within Heterogeneous Riparian Aquifers Under Tidal Influence. Geophysical Research Letters, 2020, 47, e2019GL085699.	4.0	28
8	å†°é›ªè¦†ç›–ã€æ°”æ¸©å'Œåœ°ä¸‹æ°´æµåŠ¨å¯¹æ°´è¿¹æŽ'æ°´çš„å——æžå±±å¦èžå†»å±,çƒçŠ¶æ€çš„å½±å“• Hydrogeology Journal, 2020,	2.1	11
9	A Model Analysis of the Tidal Engine That Drives Nitrogen Cycling in Coastal Riparian Aquifers. Water Resources Research, 2020, 56, e2019WR025662.	4.2	15
10	Methane and nitrous oxide porewater concentrations and surface fluxes of a regulated river. Science of the Total Environment, 2020, 715, 136920.	8.0	20
11	Hydrogeologic Controls of Surface Waterâ€Groundwater Nitrogen Dynamics Within a Tidal Freshwater Zone. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3343-3355.	3.0	15
12	Hyporheic Zone Microbiome Assembly Is Linked to Dynamic Water Mixing Patterns in Snowmeltâ€Dominated Headwater Catchments. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3269-3280.	3.0	25
13	Physical factors limiting access to clean groundwater in Tanzania villages. Journal of Water Sanitation and Hygiene for Development, 2019, 9, 531-539.	1.8	0
14	Modeling Influence of Sediment Heterogeneity on Nutrient Cycling in Streambeds. Water Resources Research, 2019, 55, 4082-4095.	4.2	33
15	Fresh Submarine Groundwater Discharge to the Nearâ€Global Coast. Geophysical Research Letters, 2019, 46, 5855-5863.	4.0	72
16	Heterogeneity in Hyporheic Flow, Pore Water Chemistry, and Microbial Community Composition in an Alpine Streambed. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3465-3478.	3.0	41
17	Spectral analysis of continuous redox data reveals geochemical dynamics near the streamâ€“aquifer interface. Hydrological Processes, 2019, 33, 405-413.	2.6	19
18	Effect of Heterogeneous Sediment Distributions on Hyporheic Flow in Physical and Numerical Models. Ground Water, 2018, 56, 934-946.	1.3	11

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19	Removal of the algal toxin microcystinâ€LR in permeable coastal sediments: Physical and numerical models. Limnology and Oceanography, 2018, 63, 1593-1604.	3.1	3
20	Opportunities and Challenges in Computing Fresh Groundwater Discharge to Continental Coastlines: A Multimodel Comparison for the United States Gulf and Atlantic Coasts. Water Resources Research, 2018, 54, 8363-8380.	4.2	13
21	Tidal controls on riverbed denitrification along a tidal freshwater zone. Water Resources Research, 2017, 53, 799-816.	4.2	39
22	Direct groundwater discharge and vulnerability to hidden nutrient loads along the Great Lakes coast of the United States. Journal of Hydrology, 2017, 554, 331-341.	5.4	19
23	From soil to sea: the role of groundwater in coastal critical zone processes. Wiley Interdisciplinary Reviews: Water, 2016, 3, 706-726.	6.5	31
24	Continental patterns of submarine groundwater discharge reveal coastal vulnerabilities. Science, 2016, 353, 705-707.	12.6	87
25	Seasonal hyporheic dynamics control coupled microbiology and geochemistry in Colorado River sediments. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2976-2987.	3.0	49
26	Surface waterâ€“groundwater exchange dynamics in a tidal freshwater zone. Hydrological Processes, 2016, 30, 739-750.	2.6	31
27	Multiscale hyporheic exchange through strongly heterogeneous sediments. Water Resources Research, 2015, 51, 9127-9140.	4.2	102
28	Surface waterâ€groundwater connectivity in deltaic distributary channel networks. Geophysical Research Letters, 2015, 42, 10,299.	4.0	31
29	Timeâ€lapse electrical resistivity imaging of solute transport in a karst conduit. Hydrological Processes, 2015, 29, 4968-4976.	2.6	17
30	Enhanced removal of groundwaterâ€borne nitrate in heterogeneous aquatic sediments. Geophysical Research Letters, 2015, 42, 403-410.	4.0	83
31	Stratigraphic controls on fluid and solute fluxes across the sedimentâ€”water interface of an estuary. Limnology and Oceanography, 2014, 59, 997-1010.	3.1	40
32	Hydrologic dynamics and geochemical responses within a floodplain aquifer and hyporheic zone during Hurricane Sandy. Water Resources Research, 2014, 50, 4877-4892.	4.2	55
33	Dynamic response of surface waterâ€groundwater exchange to currents, tides, and waves in a shallow estuary. Journal of Geophysical Research: Oceans, 2013, 118, 1749-1758.	2.6	36
34	Smallâ€scale permeability heterogeneity has negligible effects on nutrient cycling in streambeds. Geophysical Research Letters, 2013, 40, 1118-1122.	4.0	48
35	Seawater circulation in sediments driven by interactions between seabed topography and fluid density. Water Resources Research, 2013, 49, 1386-1399.	4.2	24
36	Hyporheic temperature dynamics and heat exchange near channelâ€spanning logs. Water Resources Research, 2012, 48, .	4.2	71

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37	Effect of experimental wood addition on hyporheic exchange and thermal dynamics in a losing meadow stream. Water Resources Research, 2012, 48, .	4.2	44
38	Hydrogeomorphology of the hyporheic zone: Stream solute and fine particle interactions with a dynamic streambed. Journal of Geophysical Research, 2012, 117, .	3.3	99
39	A comparative experimental and multiphysics computational fluid dynamics study of coupled surfaceâ€“subsurface flow in bed forms. Water Resources Research, 2012, 48, .	4.2	82
40	Hydraulic and thermal response of groundwaterâ€“surface water exchange to flooding in an experimental aquifer. Journal of Hydrology, 2012, 472-473, 184-192.	5.4	15
41	Dynamics of hyporheic flow and heat transport across a bedâ€toâ€bank continuum in a large regulated river. Water Resources Research, 2011, 47, .	4.2	95
42	Hyporheic exchange due to channelâ€spanning logs. Water Resources Research, 2011, 47, .	4.2	106
43	Impact of dam operations on hyporheic exchange in the riparian zone of a regulated river. Hydrological Processes, 2009, 23, 2129-2137.	2.6	170
44	Highâ€resolution inâ€situ thermal imaging of microbial mats at El Tatio Geyser, Chile shows coupling between community color and temperature. Geophysical Research Letters, 2009, 36, .	4.0	25
45	Hyporheic flow and residence time distributions in heterogeneous crossâ€bedded sediment. Water Resources Research, 2009, 45, .	4.2	158
46	Response of submarine hydrologic monitoring instruments to formation pressure changes: Theory and application to Nankai advanced CORKs. Journal of Geophysical Research, 2008, 113, .	3.3	27
47	Glacioeustatic changes in the early and middle Eocene (51â€“42 Ma): Shallow-water stratigraphy from ODP Leg 189 Site 1171 (South Tasman Rise) and deep-sea Î´18O records. Bulletin of the Geological Society of America, 2005, 117, 1081.	3.3	54
48	Groundwaterâ€stream connectivity from minutes to months across United States basins as revealed by spectral analysis. Hydrological Processes, 0, , .	2.6	1