Steven M Wondzell

List of Publications by Year
in descending order

27	2,987	279701 23	501076 28
papers	citations	h-index	g-index

29	29	29	2506
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hydrologic connectivity between landscapes and streams: Transferring reachâ€•and plotâ€scale understanding to the catchment scale. Water Resources Research, 2009, 45, .	1.7	430
2	Dynamics of nitrate production and removal as a function of residence time in the hyporheic zone. Journal of Geophysical Research, 2011, 116, .	3.3	370
3	Geomorphic controls on hyporheic exchange flow in mountain streams. Water Resources Research, 2003, 39, SBH 3-1-SBH 3-14.	1.7	338
4	Power-law residence time distribution in the hyporheic zone of a 2nd-order mountain stream. Geophysical Research Letters, 2002, 29, 18-1.	1.5	248
5	Effect of morphology and discharge on hyporheic exchange flows in two small streams in the Cascade Mountains of Oregon, USA. Hydrological Processes, 2006, 20, 267-287.	1.1	171
6	Hillslope hydrologic connectivity controls riparian groundwater turnover: Implications of catchment structure for riparian buffering and stream water sources. Water Resources Research, 2010, 46, .	1.7	165
7	Coupled transport and reaction kinetics control the nitrate sourceâ€sink function of hyporheic zones. Water Resources Research, 2012, 48, .	1.7	158
8	A modelling study of hyporheic exchange pattern and the sequence, size, and spacing of stream bedforms in mountain stream networks, Oregon, USA. Hydrological Processes, 2006, 20, 2443-2457.	1.1	145
9	Labile dissolved organic carbon supply limits hyporheic denitrification. Journal of Geophysical Research, 2011, 116, .	3.3	128
10	The role of the hyporheic zone across stream networks. Hydrological Processes, 2011, 25, 3525-3532.	1.1	117
11	Patterns in stream longitudinal profiles and implications for hyporheic exchange flow at the H.J. Andrews Experimental Forest, Oregon, USA. Hydrological Processes, 2005, 19, 2931-2949.	1.1	97
12	Simulation of dynamic expansion, contraction, and connectivity in a mountain stream network. Advances in Water Resources, 2018, 114, 64-82.	1.7	84
13	Variations in surface water-ground water interactions along a headwater mountain stream: Comparisons between transient storage and water balance analyses. Water Resources Research, 2013, 49, 3359-3374.	1.7	71
14	An analysis of alternative conceptual models relating hyporheic exchange flow to diel fluctuations in discharge during baseflow recession. Hydrological Processes, 2010, 24, 686-694.	1.1	61
15	Flow velocity and the hydrologic behavior of streams during baseflow. Geophysical Research Letters, 2007, 34, .	1.5	57
16	Changes in hyporheic exchange flow following experimental wood removal in a small, lowâ€gradient stream. Water Resources Research, 2009, 45, .	1.7	45
17	Comprehensive multiyear carbon budget of a temperate headwater stream. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 1306-1315.	1.3	40
18	Hydrogeomorphic controls on hyporheic and riparian transport in two headwater mountain streams during base flow recession. Water Resources Research, 2016, 52, 1479-1497.	1.7	36

#	Article	IF	Citations
19	Hydrologic controls on hyporheic exchange in a headwater mountain stream. Water Resources Research, 2017, 53, 6260-6278.	1.7	34
20	Climate Change Causes River Network Contraction and Disconnection in the H.J. Andrews Experimental Forest, Oregon, USA. Frontiers in Water, 2020, 2, .	1.0	32
21	Dynamic hyporheic and riparian flow path geometry through base flow recession in two headwater mountain stream corridors. Water Resources Research, 2017, 53, 3988-4003.	1.7	31
22	Carbon dynamics in the hyporheic zone of a headwater mountain stream in the Cascade Mountains, Oregon. Water Resources Research, 2016, 52, 7556-7576.	1.7	26
23	Timeâ€Variable Transit Time Distributions in the Hyporheic Zone of a Headwater Mountain Stream. Water Resources Research, 2018, 54, 2017-2036.	1.7	23
24	Multiscale Featureâ€feature Interactions Control Patterns of Hyporheic Exchange in a Simulated Headwater Mountain Stream. Water Resources Research, 2019, 55, 10976-10992.	1.7	15
25	The Influence of Local and Nonlocal Factors on Soil Water Content in a Steep Forested Catchment. Water Resources Research, 2021, 57, e2020WR028343.	1.7	9
26	The channelâ€source hypothesis: Empirical evidence for <scp>inâ€channel</scp> sourcing of dissolved organic carbon to explain hysteresis in a headwater mountain stream. Hydrological Processes, 2022, 36, .	1.1	9
27	Discussion: â€œMeadow Restoration Increases Baseflow and Groundwater Storage in the Sierra Nevada Mountains of Californiaâ€•by Luke J.H. Hunt, Julie Fair, and Maxwell Odland. Journal of the American Water Resources Association, 2020, 56, 182-185.	1.0	6