David P Genereux

List of Publications by Year
in descending order

47 papers	1,980 citations	236925 25 h-index	243625 44 g-index
48 all docs	48 docs citations	48 times ranked	2020 citing authors

#	Article	IF	Citations
1	Quantifying uncertainty in tracer-based hydrograph separations. Water Resources Research, 1998, 34, 915-919.	4.2	349
2	Spatial and temporal variability of streambed hydraulic conductivity in West Bear Creek, North Carolina, USA. Journal of Hydrology, 2008, 358, 332-353.	5.4	169
3	Determination of gas exchange rate constants for a small stream on Walker Branch Watershed, Tennessee. Water Resources Research, 1992, 28, 2365-2374.	4.2	149
4	Use of radon-222 and calcium as tracers in a three-end-member mixing model for streamflow generation on the West Fork of Walker Branch Watershed. Journal of Hydrology, 1993, 142, 167-211.	5.4	109
5	Testing mixing models of old and young groundwater in a tropical lowland rain forest with environmental tracers. Water Resources Research, 2010, 46, .	4.2	76
6	Spatial and temporal dynamics of coupled groundwater and nitrogen fluxes through a streambed in an agricultural watershed. Water Resources Research, 2009, 45, .	4.2	75
7	Per- and Polyfluoroalkyl Substance (PFAS) Transport from Groundwater to Streams near a PFAS Manufacturing Facility in North Carolina, USA. Environmental Science & Technology, 2021, 55, 5848-5856.	10.0	71
8	Chemical tracing of interbasin groundwater transfer in the lowland rainforest of Costa Rica. Journal of Hydrology, 2002, 258, 163-178.	5.4	55
9	Interbasin groundwater flow and groundwater interaction with surface water in a lowland rainforest, Costa Rica: A review. Journal of Hydrology, 2006, 320, 385-399.	5.4	54
10	Spatial and temporal variability in streamflow generation on the West Fork of Walker Branch Watershed. Journal of Hydrology, 1993, 142, 137-166.	5.4	53
11	Numerical investigation of lake bed seepage patterns: effects of porous medium and lake properties. Journal of Hydrology, 2001, 241, 286-303.	5.4	50
12	Effect of sampling density and design on estimation of streambed attributes. Journal of Hydrology, 2008, 355, 164-180.	5.4	47
13	A paired-watershed budget study to quantify interbasin groundwater flow in a lowland rain forest, Costa Rica. Water Resources Research, 2005, 41, .	4.2	45
14	Chemical and isotopic signature of old groundwater and magmatic solutes in a Costa Rican rain forest: Evidence from carbon, helium, and chlorine. Water Resources Research, 2009, 45, .	4.2	44
15	Groundwater transit time distribution and mean from streambed sampling in an agricultural coastal plain watershed, North Carolina, USA. Water Resources Research, 2016, 52, 2025-2044.	4.2	44
16	Chemical mixing model of streamflow generation at La Selva Biological Station, Costa Rica. Journal of Hydrology, 1997, 199, 319-330.	5.4	42
17	Design of a lightâ€oil piezomanometer for measurement of hydraulic head differences and collection of groundwater samples. Water Resources Research, 2007, 43, .	4.2	38
18	Relationships among groundwater age, denitrification, and the coupled groundwater and nitrogen fluxes through a streambed. Water Resources Research, 2009, 45, .	4.2	35

#	Article	IF	Citations
19	A connection to deep groundwater alters ecosystem carbon fluxes and budgets: Example from a Costa Rican rainforest. Geophysical Research Letters, 2013, 40, 2066-2070.	4.0	34
20	Regional Groundwater and Storms Are Hydrologic Controls on the Quality and Export of Dissolved Organic Matter in Two Tropical Rainforest Streams, Costa Rica. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 850-866.	3.0	32
21	A Canal Drawdown Experiment for Determination of Aquifer Parameters. Journal of Hydrologic Engineering - ASCE, 1998, 3, 294-302.	1.9	31
22	Determination of Specific Yield for the Biscayne Aquifer with a Canal-Drawdown Test. Ground Water, 2001, 39, 768-777.	1.3	31
23	Comparison of Darcian flux calculations and seepage meter measurements in a sandy streambed in North Carolina, United States. Water Resources Research, 2010, 46, .	4.2	31
24	Naturally Occurring Radon 222 as a Tracer for Streamflow Generation: Steady State Methodology and Field Example. Water Resources Research, 1990, 26, 3065-3075.	4.2	30
25	Water exchange between canals and surrounding aquifer and wetlands in the Southern Everglades, USA. Journal of Hydrology, 1999, 219, 153-168.	5.4	30
26	Quantifying the fate of agricultural nitrogen in an unconfined aquifer: Streamâ€based observations at three measurement scales. Water Resources Research, 2016, 52, 1961-1983.	4.2	27
27	¹⁴C Groundwater Age and the Importance of Chemical Fluxes Across Aquifer Boundaries in Confined Cretaceous Aquifers of North Carolina, USA. Radiocarbon, 2007, 49, 1181-1203.	1.8	19
28	The effect of regional groundwater on carbon dioxide and methane emissions from a lowland rainforest stream in Costa Rica. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 2579-2595.	3.0	19
29	A Tube Seepage Meter for In Situ Measurement of Seepage Rate and Groundwater Sampling. Ground Water, 2016, 54, 588-595.	1.3	19
30	Influence of Calibration Methodology on Ground Water Flow Predictions. Ground Water, 2004, 42, 32-44.	1.3	18
31	Comparison of naturally-occurring chloride and oxygen-18 as tracers of interbasin groundwater transfer in lowland rainforest, Costa Rica. Journal of Hydrology, 2004, 295, 17-27.	5.4	17
32	Gas-Tracer Experiment for Evaluating the Fate of Methane in a Coastal Plain Stream: Degassing versus in-Stream Oxidation. Environmental Science & Technology, 2016, 50, 10504-10511.	10.0	17
33	Use of a watershed hydrologic model to estimate interbasin groundwater flow in a Costa Rican rainforest. Hydrological Processes, 2014, 28, 3670-3680.	2.6	16
34	A borehole flowmeter investigation of small-scale hydraulic conductivity variation in the Biscayne Aquifer, Florida. Water Resources Research, 2001, 37, 1511-1517.	4.2	13
35	An Automated Seepage Meter for Streams and Lakes. Water Resources Research, 2020, 56, e2019WR026983.	4.2	13
36	Relationship of groundwater geochemistry and flow to volcanic stratigraphy in basaltic aquifers affected by magmatic CO2, Jeju Island, Korea. Chemical Geology, 2017, 467, 143-158.	3.3	11

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37	Quantifying an aquifer nitrate budget and future nitrate discharge using field data from streambeds and well nests. Water Resources Research, 2016, 52, 9046-9065.	4.2	10
38	In-situ falling-head test for hydraulic conductivity: Evaluation in layered sediments of an analysis derived for homogenous sediments. Journal of Hydrology, 2016, 539, 319-329.	5.4	10
39	Interbasin flow of geothermally modified ground water stabilizes stream exports of biologically important solutes against variation in precipitation. Freshwater Science, 2015, 34, 276-286.	1.8	7
40	Chamber measurements of high CO2 emissions from a rainforest stream receiving old C-rich regional groundwater. Biogeochemistry, 2016, 130, 69-83.	3.5	6
41	Comparison of methods for estimation of 50-year peak discharge from a small, rural watershed in North Carolina. Environmental Geology, 2003, 44, 53-58.	1.2	5
42	Identifying the regional extent and geochemical evolution of interbasin groundwater flow using geochemical inverse modeling and 87Sr/86Sr ratios in a complex conglomeratic aquifer. Chemical Geology, 2018, 500, 20-29.	3.3	4
43	Estimating groundwater mean transit time from SF6 in stream water: field example and planning metrics for a reach mass-balance approach. Hydrogeology Journal, 2022, 30, 479.	2.1	4
44	Using Automated Seepage Meters to Quantify the Spatial Variability and Net Flux of Groundwater to a Stream. Water Resources Research, 2022, 58, .	4.2	4
45	Partitioning inorganic carbon fluxes from paired O2â€“CO2 gas measurements in a Neotropical headwater stream, Costa Rica. Biogeochemistry, 2022, 160, 259-273.	3.5	4
46	Reply to comment on â€œNumerical investigation of lake bed seepage patterns: effects of porous medium and lake propertiesâ€•by Genereux, D., and Bandopadhyay, I., 2001. Journal of Hydrology 241, 286â€“303. Journal of Hydrology, 2002, 258, 265-266.	5.4	1
47	Addendum to "Quantifying Uncertainty in Tracerâ€Based Hydrograph Separations" for Threeâ€Component Mixing Problems.. Water Resources Research, 0, , .	4.2	1