Robert Hirsch

List of Publications by Year
in descending order

49 papers	11,808 citations	136885 32 h-index	214721 47 g-index
73 all docs	73 docs citations	73 times ranked	10312 citing authors

#	Article	IF	Citations
1	The Occurrence of Large Floods in the United States in the Modern Hydroclimate Regime: Seasonality, Trends, and Largeâ€Scale Climate Associations. Water Resources Research, 2022, 58, .	1.7	8
2	Spatial and Temporal Patterns of Low Streamflow and Precipitation Changes in the Chesapeake Bay Watershed. Journal of the American Water Resources Association, 2021, 57, 96-108.	1.0	7
3	Substantial Declines in Salinity Observed Across the Upper Colorado River Basin During the 20th Century, 1929â€“2019. Water Resources Research, 2021, 57, e2020WR028581.	1.7	17
4	Lake Erie tributary nutrient trend evaluation: Normalizing concentrations and loads to reduce flow variability. Ecological Indicators, 2021, 125, 107601.	2.6	10
5	Low streamflow trends at human-impacted and reference basins in the United States. Journal of Hydrology, 2020, 580, 124254.	2.3	59
6	The role of baseflow in dissolved solids delivery to streams in the Upper Colorado River Basin. Hydrological Processes, 2020, 34, 150-152.	1.1	0
7	Phosphorus and the Chesapeake Bay: Lingering Issues and Emerging Concerns for Agriculture. Journal of Environmental Quality, 2019, 48, 1191-1203.	1.0	48
8	River Waterâ€Quality Concentration and Flux Estimation Can be Improved by Accounting for Serial Correlation Through an Autoregressive Model. Water Resources Research, 2019, 55, 9705-9723.	1.7	38
9	Updating estimates of low-streamflow statistics to account for possible trends. Hydrological Sciences Journal, 2019, 64, 1404-1414.	1.2	12
10	Point sources and agricultural practices control spatial-temporal patterns of orthophosphate in tributaries to Chesapeake Bay. Science of the Total Environment, 2019, 652, 422-433.	3.9	33
11	Spatial and temporal patterns of dissolved organic matter quantity and quality in the Mississippi River Basin, 1997â€“2013. Hydrological Processes, 2017, 31, 902-915.	1.1	31
12	The role of baseflow in dissolved solids delivery to streams in the Upper Colorado River Basin. Hydrological Processes, 2017, 31, 4705-4718.	1.1	30
13	An evaluation of methods for estimating decadal stream loads. Journal of Hydrology, 2016, 542, 185-203.	2.3	73
14	Fragmented patterns of flood change across the United States. Geophysical Research Letters, 2016, 43, 10232-10239.	1.5	123
15	Long-Term Changes in Sediment and Nutrient Delivery from Conowingo Dam to Chesapeake Bay: Effects of Reservoir Sedimentation. Environmental Science & Technology, 2016, 50, 1877-1886.	4.6	51
16	On Critiques of â€œStationarity is Dead: Whither Water Management?â€. Water Resources Research, 2015, 51, 7785-7789.	1.7	204
17	Not higher but more often. Nature Climate Change, 2015, 5, 198-199.	8.1	98
18	River chloride trends in snow-affected urban watersheds: increasing concentrations outpace urban growth rate and are common among all seasons. Science of the Total Environment, 2015, 508, 488-497.	3.9	202

#	Article	IF	Citations
19	A bootstrap method for estimating uncertainty of water quality trends. Environmental Modelling and Software, 2015, 73, 148-166.	1.9	129
20	Antecedent flow conditions and nitrate concentrations in the Mississippi River basin. Hydrology and Earth System Sciences, 2014, 18, 967-979.	1.9	13
21	Past, Present, and Future of Water Data Delivery from the U.S. Geological Survey. Journal of Contemporary Water Research and Education, 2014, 153, 4-15.	0.7	10
22	Large Biases in Regressionâ€Based Constituent Flux Estimates: Causes and Diagnostic Tools. Journal of the American Water Resources Association, 2014, 50, 1401-1424.	1.0	74
23	Decadal surface water quality trends under variable climate, land use, and hydrogeochemical setting in Iowa, USA. Water Resources Research, 2014, 50, 2425-2443.	1.7	43
24	Monitoring and Understanding Changes in Heat Waves, Cold Waves, Floods, and Droughts in the United States: State of Knowledge. Bulletin of the American Meteorological Society, 2013, 94, 821-834.	1.7	365
25	Use of flow-normalization to evaluate nutrient concentration and flux changes in Lake Champlain tributaries, 1990â€“2009. Journal of Great Lakes Research, 2012, 38, 58-67.	0.8	37
26	Has the magnitude of floods across the USA changed with global CO₂ levels?. Hydrological Sciences Journal, 2012, 57, 1-9.	1.2	157
27	The Science, Information, and Engineering Needed to Manage Water Availability and Quality in 2050. , 2012, , 215-225.		0
28	Nitrate in the Mississippi River and Its Tributaries, 1980 to 2008: Are We Making Progress?. Environmental Science & Technology, 2011, 45, 7209-7216.	4.6	176
29	A Perspective on Nonstationarity and Water Management1. Journal of the American Water Resources Association, 2011, 47, 436-446.	1.0	77
30	Weighted Regressions on Time, Discharge, and Season (WRTDS), with an Application to Chesapeake Bay River Inputs¹. Journal of the American Water Resources Association, 2010, 46, 857-880.	1.0	359
31	Stationarity Is Dead: Whither Water Management?. Science, 2008, 319, 573-574.	6.0	3,381
32	Aquatic Processes and Systems in PerspectiveU.S. Geological Survey perspective on water-quality monitoring and assessment. Journal of Environmental Monitoring, 2006, 8, 512.	2.1	19
33	USGS Study reveals a decline in long-record streamgages. Eos, 1999, 80, 605.	0.1	42
34	Selection of methods for the detection and estimation of trends in water quality. Water Resources Research, 1991, 27, 803-813.	1.7	418
35	Mean square error of regressionâ€based constituent transport estimates. Water Resources Research, 1990, 26, 2069-2077.	1.7	110
36	Estimating constituent loads. Water Resources Research, 1989, 25, 937-942.	1.7	355

#	ARTICLE	IF	CITATIONS
37	"Applicability of the t-Test for Detecting Trends in Water Quality Variables," by Robert H. Montgomery and Jim C. Loftis. Journal of the American Water Resources Association, 1988, 24, 201-204.	1.0	31
38	STATISTICAL METHODS AND SAMPLING DESIGN FOR ESTIMATING STEP TRENDS IN SURFACE-WATER QUALITY. Journal of the American Water Resources Association, 1988, 24, 493-503.	1.0	44
39	Plotting positions for historical floods and their precision. Water Resources Research, 1987, 23, 715-727.	1.7	92
40	Probability plotting position formulas for flood records with historical information. Journal of Hydrology, 1987, 96, 185-199.	2.3	38
41	DETECTABILITY OF STEP TRENDS IN THE RATE OF ATMOSPHERIC DEPOSITION OF SULFATE. Journal of the American Water Resources Association, 1985, 21, 773-784.	1.0	22
42	METHODS OF FITTING A STRAIGHT LINE TO DATA: EXAMPLES IN WATER RESOURCES. Journal of the American Water Resources Association, 1984, 20, 705-711.	1.0	152
43	Effect of censoring trace-level water-quality data on trend-detection capability. Environmental Science & Technology, 1984, 18, 530-535.	4.6	37
44	A Nonparametric Trend Test for Seasonal Data With Serial Dependence. Water Resources Research, 1984, 20, 727-732.	1.7	1,261
45	Techniques of trend analysis for monthly water quality data. Water Resources Research, 1982, 18, 107-121.	1.7	2,159
46	A comparison of four streamflow record extension techniques. Water Resources Research, 1982, 18, 1081-1088.	1.7	240
47	Synthetic hydrology and water supply reliability. Water Resources Research, 1979, 15, 1603-1615.	1.7	77
48	An evaluation of some record reconstruction techniques. Water Resources Research, 1979, 15, 1781-1790.	1.7	112
49	Gains from joint operation of multiple reservoir systems. Water Resources Research, 1977, 13, 239-245.	1.7	28