

# Rosemary Carroll

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

800  
citations

567281

15  
h-index

526287

27  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1005  
citing authors

#	ARTICLE	IF	CITATIONS
1	The East River, Colorado, Watershed: A Mountainous Community Testbed for Improving Predictive Understanding of Multiscale Hydrologicalâ€”Biogeochemical Dynamics. <i>Vadose Zone Journal</i> , 2018, 17, 1-25.	2.2	115
2	Snowmelt controls on concentrationâ€”discharge relationships and the balance of oxidative and acidâ€”base weathering fluxes in an alpine catchment, <sc>E</sc>ast <sc>R</sc>iver, <sc>C</sc>olorado. <i>Water Resources Research</i> , 2017, 53, 2507-2523.	4.2	98
3	The Importance of Interflow to Groundwater Recharge in a Snowmeltâ€”Dominated Headwater Basin. <i>Geophysical Research Letters</i> , 2019, 46, 5899-5908.	4.0	73
4	Assessing the role of climate and resource management on groundwater dependent ecosystem changes in arid environments with the Landsat archive. <i>Remote Sensing of Environment</i> , 2016, 185, 186-197.	11.0	72
5	Geochemical Exports to River From the Intrameander Hyporheic Zone Under Transient Hydrologic Conditions: East River Mountainous Watershed, Colorado. <i>Water Resources Research</i> , 2018, 54, 8456-8477.	4.2	66
6	Factors controlling seasonal groundwater and solute flux from snowâ€”dominated basins. <i>Hydrological Processes</i> , 2018, 32, 2187-2202.	2.6	63
7	Depthâ€”and Timeâ€”Resolved Distributions of Snowmeltâ€”Driven Hillslope Subsurface Flow and Transport and Their Contributions to Surface Waters. <i>Water Resources Research</i> , 2019, 55, 9474-9499.	4.2	25
8	Why does snowmelt-driven streamflow response to warming vary? A data-driven review and predictive framework. <i>Environmental Research Letters</i> , 2022, 17, 053004.	5.2	25
9	Differential C-Q Analysis: A New Approach to Inferring Lateral Transport and Hydrologic Transients Within Multiple Reaches of a Mountainous Headwater Catchment. <i>Frontiers in Water</i> , 2020, 2, .	2.3	24
10	Persistence and Plasticity in Conifer Waterâ€”Use Strategies. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2018JG004845.	3.0	24
11	Evaluating mountain meadow groundwater response to Pinyonâ€”Juniper and temperature in a great basin watershed. <i>Ecohydrology</i> , 2017, 10, e1792.	2.4	21
12	Streamflow partitioning and transit time distribution in snow-dominated basins as a function of climate. <i>Journal of Hydrology</i> , 2019, 570, 726-738.	5.4	20
13	Mason Valley Groundwater Model: Linking Surface Water and Groundwater in the Walker River Basin, Nevada<sup>1</sup>. <i>Journal of the American Water Resources Association</i> , 2010, 46, 554-573.	2.4	19
14	Regulation of precipitationâ€”associated vegetation dynamics on catchment water balance in a semiarid and arid mountainous watershed. <i>Ecohydrology</i> , 2016, 9, 1248-1262.	2.4	19
15	Challenges in Building an End-to-End System for Acquisition, Management, and Integration of Diverse Data From Sensor Networks in Watersheds: Lessons From a Mountainous Community Observatory in East River, Colorado. <i>IEEE Access</i> , 2019, 7, 182796-182813.	4.2	18
16	Significant stream chemistry response to temperature variations in a high-elevation mountain watershed. <i>Communications Earth &amp; Environment</i> , 2020, 1, .	6.8	16
17	Efficiency of the Summer Monsoon in Generating Streamflow Within a Snowâ€”Dominated Headwater Basin of the Colorado River. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090856.	4.0	16
18	Using geochemical indicators to distinguish high biogeochemical activity in floodplain soils and sediments. <i>Science of the Total Environment</i> , 2016, 563-564, 386-395.	8.0	12

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19	An unconfined groundwater model of the Death Valley Regional Flow System and a comparison to its confined predecessor. <i>Journal of Hydrology</i> , 2009, 373, 316-328.	5.4	11
20	Calibrating a Basin-Scale Groundwater Model to Remotely Sensed Estimates of Groundwater Evapotranspiration. <i>Journal of the American Water Resources Association</i> , 2015, 51, 1114-1127.	2.4	11
21	Baseflow Age Distributions and Depth of Active Groundwater Flow in a Snow-Dominated Mountain Headwater Basin. <i>Water Resources Research</i> , 2020, 56, e2020WR028161.	4.2	10
22	The Colorado East River Community Observatory Data Collection. <i>Hydrological Processes</i> , 2021, 35, e14243.	2.6	10
23	Seasonal Variation of Mercury Associated with Different Phytoplankton Size Fractions in Lahontan Reservoir, Nevada. <i>Water, Air, and Soil Pollution</i> , 2011, 217, 221-232.	2.4	9
24	Modeling the Highly Dynamic Loading of Mercury Species in the Carson River and Lahontan Reservoir System, Nevada. <i>Journal of the American Water Resources Association</i> , 2016, 52, 1207-1222.	2.4	7
25	Variability of Snow and Rainfall Partitioning Into Evapotranspiration and Summer Runoff Across Nine Mountainous Catchments. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	6
26	Sulfur Biogeochemical Cycling and Redox Dynamics in a Shale-Dominated Mountainous Watershed. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	5
27	The importance of dynamic mercury water column concentrations on body burdens in a planktivorous fish: A bioenergetic and mercury mass balance perspective. <i>Ecological Modelling</i> , 2017, 364, 66-76.	2.5	2