Ryan E Emanuel

List of Publications by Year
in descending order

53 papers	1,479 citations	279487 23 h-index	344852 36 g-index
55 all docs	55 docs citations	55 times ranked	2200 citing authors

#	Article	IF	Citations
1	Natural Gas Gathering and Transmission Pipelines and Social Vulnerability in the United States. GeoHealth, 2021, 5, e2021GH000442.	1.9	16
2	Microbial Contamination in Environmental Waters of Rural and Agriculturally-Dominated Landscapes Following Hurricane Florence. ACS ES&T Water, 2021, 1, 2012-2019.	2.3	9
3	Values-Based Scenarios of Water Security: Rights to Water, Rights of Waters, and Commercial Water Rights. BioScience, 2021, 71, 1157-1170.	2.2	7
4	Soil Moisture Responses to Rainfall: Implications for Runoff Generation. Water Resources Research, 2021, 57, e2020WR028827.	1.7	38
5	Extreme Flooding and Nitrogen Dynamics of a Blackwater River. Water Resources Research, 2021, 57, e2020WR029106.	1.7	3
6	Applying Climate Change Risk Management Tools to Integrate Streamflow Projections and Social Vulnerability. Ecosystems, 2020, 23, 67-83.	1.6	5
7	Search for Campylobacter spp. Reveals High Prevalence and Pronounced Genetic Diversity of Arcobacter butzleri in Floodwater Samples Associated with Hurricane Florence in North Carolina, USA. Applied and Environmental Microbiology, 2020, 86, .	1.4	10
8	Breaching Barriers: The Fight for Indigenous Participation in Water Governance. Water (Switzerland), 2020, 12, 2113.	1.2	10
9	Spatial and Temporal Patterns in Baseflow Recession in the Continental United States. Water Resources Research, 2020, 56, e2019WR026425.	1.7	32
10	Nonâ€linear quickflow response as indicators of runoff generation mechanisms. Hydrological Processes, 2020, 34, 2949-2964.	1.1	20
11	Decadal-Scale Vegetation Change Driven by Salinity at Leading Edge of Rising Sea Level. Ecosystems, 2019, 22, 1918-1930.	1.6	37
12	Linking residential saltwater intrusion risk perceptions to physical exposure of climate change impacts in rural coastal communities of North Carolina. Natural Hazards, 2019, 97, 1277-1295.	1.6	10
13	Ecohydrology of Interannual Changes in Watershed Storage. Water Resources Research, 2019, 55, 8238-8251.	1.7	21
14	Water in the Lumbee World: A River and Its People in a Time of Change. Environmental History, 2019, 24, 25-51.	0.1	12
15	Indigenous Symposium on Water Research, Education, and Engagement. Eos, 2019, 100, .	0.1	4
16	Unexpected ecological advances made possible by longâ€term data: A Coweeta example. Wiley Interdisciplinary Reviews: Water, 2018, 5, e1273.	2.8	9
17	The Relative Influence of Storm and Landscape Characteristics on Shallow Groundwater Responses in Forested Headwater Catchments. Water Resources Research, 2018, 54, 9883-9900.	1.7	13
18	Climate Change in the Lumbee River Watershed and Potential Impacts on the Lumbee Tribe of North Carolina. Journal of Contemporary Water Research and Education, 2018, 163, 79-93.	0.7	13

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19	Sea level rise impacts on rural coastal social-ecological systems and the implications for decision making. Environmental Science and Policy, 2018, 90, 122-134.	2.4	52
20	Understanding coastal wetland hydrology with a new regionalâ€scale, processâ€based hydrological model. Hydrological Processes, 2018, 32, 3158-3173.	1.1	38
21	Assessment of hydrologic vulnerability to urbanization and climate change in a rapidly changing watershed in the Southeast U.S.. Science of the Total Environment, 2018, 645, 806-816.	3.9	35
22	Terra incognita: The unknown risks to environmental quality posed by the spatial distribution and abundance of concentrated animal feeding operations. Science of the Total Environment, 2018, 642, 887-893.	3.9	27
23	Evaluating the effects of land-use change and future climate change on vulnerability of coastal landscapes to saltwater intrusion. Elementa, 2018, 6, .	1.1	45
24	How are streamflow responses to the <scp>E</scp>l <scp>N</scp>ino <scp>S</scp>outhern <scp>O</scp>scillation affected by watershed characteristics?. Water Resources Research, 2017, 53, 4393-4406.	1.7	14
25	Flawed environmental justice analyses. Science, 2017, 357, 260-260.	6.0	18
26	Complex terrain influences ecosystem carbon responses to temperature and precipitation. Global Biogeochemical Cycles, 2017, 31, 1306-1317.	1.9	15
27	Hydroâ€Climatological Influences on Longâ€Term Dissolved Organic Carbon in a Mountain Stream of the Southeastern United States. Journal of Environmental Quality, 2016, 45, 1286-1295.	1.0	14
28	Hydrologic Impacts of Municipal Wastewater Irrigation to a Temperate Forest Watershed. Journal of Environmental Quality, 2016, 45, 1303-1312.	1.0	14
29	The influence of watershed characteristics on spatial patterns of trends in annual scale streamflow variability in the continental U.S.. Journal of Hydrology, 2016, 540, 850-860.	2.3	24
30	Variability in isotopic composition of base flow in two headwater streams of the southern Appalachians. Water Resources Research, 2016, 52, 4264-4279.	1.7	19
31	Watershed memory at the <scp>C</scp>oweeta <scp>H</scp>ydrologic <scp>L</scp>aboratory: The effect of past precipitation and storage on hydrologic response. Water Resources Research, 2016, 52, 1673-1695.	1.7	54
32	The spatial and temporal evolution of contributing areas. Water Resources Research, 2015, 51, 4550-4573.	1.7	74
33	Continental U.S. streamflow trends from 1940 to 2009 and their relationships with watershed spatial characteristics. Water Resources Research, 2015, 51, 6262-6275.	1.7	64
34	Influence of basin characteristics on the effectiveness and downstream reach of interbasin water transfers: displacing a problem. Environmental Research Letters, 2015, 10, 124005.	2.2	34
35	Landâ€“atmosphere carbon and water flux relationships to vapor pressure deficit, soil moisture, and stream flow. Agricultural and Forest Meteorology, 2015, 208, 108-117.	1.9	28
36	Landscape Position Influences Microbial Composition and Function via Redistribution of Soil Water across a Watershed. Applied and Environmental Microbiology, 2015, 81, 8457-8468.	1.4	22

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37	Ecohydrological flow networks in the subsurface. Ecohydrology, 2014, 7, 1073-1078.	1.1	19
38	A simple framework to estimate distributed soil temperature from discrete air temperature measurements in dataâ€scarce regions. Journal of Geophysical Research D: Atmospheres, 2014, 119, 407-417.	1.2	31
39	Landscape position and spatial patterns in the distribution of land use within the southern Appalachian Mountains. Physical Geography, 2014, 35, 443-457.	0.6	3
40	Vegetation and topographic influences on the connectivity of shallow groundwater between hillslopes and streams. Ecohydrology, 2014, 7, 887-895.	1.1	46
41	Ecohydrology of an outbreak: mountain pine beetle impacts trees in drier landscape positions first. Ecohydrology, 2013, 6, 444-454.	1.1	46
42	Complex terrain leads to bidirectional responses of soil respiration to interâ€annual water availability. Global Change Biology, 2012, 18, 749-756.	4.2	40
43	A watershedâ€scale assessment of a process soil CO₂ production and efflux model. Water Resources Research, 2011, 47, .	1.7	26
44	Training a New Scientist to Meet the Challenges of a Changing Environment. Eos, 2011, 92, 135-136.	0.1	4
45	Landscape structure and climate influences on hydrologic response. Water Resources Research, 2011, 47, .	1.7	76
46	On the spatial heterogeneity of net ecosystem productivity in complex landscapes. Ecosphere, 2011, 2, art86.	1.0	22
47	Effect of interannual climate oscillations on rates of submarine groundwater discharge. Water Resources Research, 2010, 46, .	1.7	28
48	Spatial and temporal controls on watershed ecohydrology in the northern Rocky Mountains. Water Resources Research, 2010, 46, .	1.7	50
49	Effect of interannual and interdecadal climate oscillations on groundwater in North Carolina. Geophysical Research Letters, 2008, 35, .	1.5	44
50	A dynamic soil water threshold for vegetation water stress derived from stomatal conductance models. Water Resources Research, 2007, 43, .	1.7	21
51	Evidence of optimal water use by vegetation across a range of North American ecosystems. Geophysical Research Letters, 2007, 34, .	1.5	14
52	Diurnal hysteresis between soil CO₂ and soil temperature is controlled by soil water content. Geophysical Research Letters, 2007, 34, .	1.5	137
53	Carbon dioxide exchange and early old-field succession. Journal of Geophysical Research, 2006, 111, .	3.3	12