Mark Rains

List of Publications by Year
in descending order

41 papers	1,804 citations	331259 21 h-index	288905 40 g-index
41 all docs	41 docs citations	41 times ranked	1841 citing authors

#	Article	IF	Citations
1	Do geographically isolated wetlands influence landscape functions?. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1978-1986.	3.3	297
2	Hydrological Connectivity Between Headwater Streams and Downstream Waters: How Science Can Inform Policy¹. Journal of the American Water Resources Association, 2007, 43, 118-133.	1.0	226
3	Enhancing protection for vulnerable waters. Nature Geoscience, 2017, 10, 809-815.	5.4	141
4	Non-navigable streams and adjacent wetlands: addressing science needs following the Supreme Court'sRapanosdecision. Frontiers in Ecology and the Environment, 2008, 6, 364-371.	1.9	106
5	Integrating geographically isolated wetlands into land management decisions. Frontiers in Ecology and the Environment, 2017, 15, 319-327.	1.9	92
6	Geographically Isolated Wetlands: Rethinking a Misnomer. Wetlands, 2015, 35, 423-431.	0.7	87
7	The role of perched aquifers in hydrological connectivity and biogeochemical processes in vernal pool landscapes, Central Valley, California. Hydrological Processes, 2006, 20, 1157-1175.	1.1	84
8	Quantifying the hydrological effects of stream restoration in a montane meadow, northern California, USA. River Research and Applications, 2008, 24, 735-753.	0.7	76
9	SIMULATED CHANGES IN SHALLOW GROUNDWATER AND VEGETATION DISTRIBUTIONS UNDER DIFFERENT RESERVOIR OPERATIONS SCENARIOS. , 2004, 14, 192-207.		51
10	Vegetation and water-table relationships in a hydrologically restored riparian meadow. Wetlands, 2009, 29, 785-797.	0.7	45
11	Simulated Effects of Stream Restoration on the Distribution of Wet-Meadow Vegetation. Restoration Ecology, 2010, 18, 882-893.	1.4	44
12	Hydrological Connectivity of Headwaters to Downstream Waters: Introduction to the Featured Collection. Journal of the American Water Resources Association, 2007, 43, 1-4.	1.0	42
13	Geological control of physical and chemical hydrology in California vernal pools. Wetlands, 2008, 28, 347-362.	0.7	39
14	Saltwater intrusion as potential driver of phosphorus release from limestone bedrock in a coastal aquifer. Estuarine, Coastal and Shelf Science, 2017, 184, 166-176.	0.9	35
15	The proposed change to the definition of â€œwaters of the United Statesâ€•flouts sound science. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11558-11561.	3.3	34
16	Water Sources and Hydrodynamics of Closed-Basin Depressions, Cook Inlet Region, Alaska. Wetlands, 2011, 31, 377-387.	0.7	30
17	Hydrologic characterization of 56 geographically isolated wetlands in west-central Florida using a probabilistic method. Wetlands Ecology and Management, 2013, 21, 1-14.	0.7	27
18	Solute evidence for hydrological connectivity of geographically isolated wetlands. Land Degradation and Development, 2018, 29, 3954-3962.	1.8	26

#	Article	IF	Citations
19	Distorting science, putting water at risk. Science, 2020, 369, 766-768.	6.0	25
20	Origin of Shallow Ground Water in an Alluvial Aquifer as Determined by Isotopic and Chemical Procedures. Ground Water, 2002, 40, 552-563.	0.7	23
21	The Significant Surface-Water Connectivity of â€œGeographically Isolated Wetlandsâ€• Wetlands, 2017, 37, 801-806.	0.7	23
22	Case Study on the Accuracy and Cost/Effectiveness in Simulating Reference Evapotranspiration in West-Central Florida. Journal of Hydrologic Engineering - ASCE, 2010, 15, 696-703.	0.8	22
23	Controls on Temperature in Salmonidâ€Bearing Headwater Streams in Two Common Hydrogeologic Settings, Kenai Peninsula, Alaska. Journal of the American Water Resources Association, 2015, 51, 84-98.	1.0	21
24	Vulnerable Waters are Essential to Watershed Resilience. Ecosystems, 2023, 26, 1-28.	1.6	21
25	Effects of increased summer flooding on nitrogen dynamics in impounded mangroves. Journal of Environmental Management, 2014, 139, 217-226.	3.8	20
26	A Hydrologic Landscapes Perspective on Groundwater Connectivity of Depressional Wetlands. Water (Switzerland), 2020, 12, 50.	1.2	20
27	Linking landscape attributes to salmon and decision-making in the southern Kenai Lowlands, Alaska, USA. Ecology and Society, 2021, 26, .	1.0	18
28	Visioning the Future: Scenarios Modeling of the Florida Coastal Everglades. Environmental Management, 2017, 60, 989-1009.	1.2	15
29	Controls on Water Levels and Salinity in a Barrier Island Mangrove, Indian River Lagoon, Florida. Wetlands, 2010, 30, 725-734.	0.7	14
30	Control of phosphorus concentration through adsorption and desorption in shallow groundwater of subtropical carbonate estuary. Estuarine, Coastal and Shelf Science, 2016, 169, 238-247.	0.9	14
31	Hydrogeomorphic (HGM) assessmentâ€”A test of user consistency. Wetlands, 1999, 19, 560-569.	0.7	13
32	Nitrogen Subsidies from Hillslope Alder Stands to Streamside Wetlands and Headwater Streams, Kenai Peninsula, Alaska. Journal of the American Water Resources Association, 2017, 53, 478-492.	1.0	13
33	Catchment-scale alder cover controls nitrogen fixation in boreal headwater streams. Freshwater Science, 2017, 36, 523-532.	0.9	10
34	Where's the Science? Recent Changes to Clean Water Act Threaten Wetlands and Thousands of Miles of Our Nation's Rivers and Streams. Environmental Engineering Science, 2020, 37, 173-177.	0.8	9
35	Soil indicators of hydrologic health and resilience in cypress domes of West-Central Florida. Ecological Indicators, 2019, 97, 269-279.	2.6	8
36	Why is calcite a strong phosphorus sink in freshwater? Investigating the adsorption mechanism using batch experiments and surface complexation modeling. Chemosphere, 2022, 286, 131596.	4.2	7

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37	The Peculiar Hydrology of West-Central Floridaâ€™s Sandhill Wetlands, Ponds, and Lakes â€“Part 2: Hydrogeologic Controls. Wetlands, 2022, 42, .	0.7	7
38	The Peculiar Hydrology of West-Central Floridaâ€™s Sandhill Wetlands, Ponds, and Lakesâ€”Part 1: Physical and Chemical Evidence of Connectivity to a Regional Water-Supply Aquifer. Wetlands, 2021, 41, 1.	0.7	6
39	Hydrology of Clay Settling Areas and Surrounding Landscapes in the Phosphate Mining District, Peninsular Florida¹. Journal of the American Water Resources Association, 2008, 44, 980-995.	1.0	5
40	Rapid and Intense Phosphate Desorption Kinetics When Saltwater Intrudes into Carbonate Rock. Estuaries and Coasts, 2017, 40, 1301-1313.	1.0	4
41	Shifting Ground: Landscape-Scale Modeling of Biogeochemical Processes under Climate Change in the Florida Everglades. Environmental Management, 2019, 64, 416-435.	1.2	4