Aaron R Mittelstet

List of Publications by Year
in descending order

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42 papers	599 citations	759233 12 h-index	677142 22 g-index
42 all docs	42 docs citations	42 times ranked	714 citing authors

#	Article	IF	Citations
1	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
2	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
3	A biological and chemical approach to restoring water quality: A case study in an urban eutrophic pond. Journal of Environmental Management, 2022, 318, 115463.	7.8	5
4	The application of SWAT-GIS tool to improve the recharge factor in the DRASTIC framework: Case study. Journal of Hydrology, 2021, 592, 125613.	5.4	18
5	Application of an Ultrasonic Sensor to Monitor Soil Erosion and Deposition. Transactions of the ASABE, 2021, 64, 963-974.	1.1	0
6	Impact of Bank Stabilization Structures on Upstream and Downstream Bank Mobilization at Cedar River, Nebraska. Transactions of the ASABE, 2021, 64, 1555-1567.	1.1	3
7	Determination of vadose zone and saturated zone nitrate lag times using long-term groundwater monitoring data and statistical machine learning. Hydrology and Earth System Sciences, 2021, 25, 811-829.	4.9	12
8	Baseflow nitrate dynamics within nested watersheds of an agricultural stream in Nebraska, USA. Agriculture, Ecosystems and Environment, 2021, 308, 107223.	5.3	20
9	Pesticide occurrence and persistence entering recreational lakes in watersheds of varying land uses. Environmental Pollution, 2021, 273, 116399.	7.5	13
10	Knowledgeâ€guided machine learning for improving daily soil temperature prediction across the United States. Vadose Zone Journal, 2021, 20, e20151.	2.2	5
11	Effects of drought on groundwater-fed lake areas in the Nebraska Sand Hills. Journal of Hydrology: Regional Studies, 2021, 36, 100877.	2.4	7
12	Groundwater level assessment and prediction in the Nebraska Sand Hills using LIDAR-derived lake water level. Journal of Hydrology, 2021, 600, 126582.	5.4	3
13	Evolution of three streambanks before and after stabilization and record flooding. Ecological Engineering, 2021, 170, 106357.	3.6	1
14	Modeling and Prioritizing Interventions Using Pollution Hotspots for Reducing Nutrients, Atrazine and E. coli Concentrations in a Watershed. Sustainability, 2021, 13, 103.	3.2	8
15	Escherichia coli concentrations in waters of a reservoir system impacted by cattle and migratory waterfowl. Science of the Total Environment, 2020, 705, 135607.	8.0	13
16	Literature Review: Global Neonicotinoid Insecticide Occurrence in Aquatic Environments. Water (Switzerland), 2020, 12, 3388.	2.7	75
17	Measuring the occurrence of antibiotics in surface water adjacent to cattle grazing areas using passive samplers. Science of the Total Environment, 2020, 726, 138296.	8.0	13
18	Geostatistical features of streambed vertical hydraulic conductivities in Frenchman Creek Watershed in Western Nebraska. Hydrological Processes, 2020, 34, 3481-3491.	2.6	3

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19	Predicting Escherichia coli loads in cascading dams with machine learning: An integration of hydrometeorology, animal density and grazing pattern. Science of the Total Environment, 2020, 722, 137894.	8.0	18
20	Recharge seasonality based on stable isotopes: Nongrowing season bias altered by irrigation in Nebraska. Hydrological Processes, 2020, 34, 1575-1586.	2.6	9
21	Impact of an Extreme Flood Event on Streambank Retreat: Cedar River, Nebraska, USA. Journal of the American Water Resources Association, 2020, 56, 528-541.	2.4	3
22	Influence of watershed characteristics on streambed hydraulic conductivity across multiple stream orders. Scientific Reports, 2020, 10, 3696.	3.3	8
23	Streambed Flux Measurement Informed by Distributed Temperature Sensing Leads to a Significantly Different Characterization of Groundwater Discharge. Water (Switzerland), 2019, 11, 2312.	2.7	7
24	Mitigating the risk of atrazine exposure: Identifying hot spots and hot times in surface waters across Nebraska, USA. Journal of Environmental Management, 2019, 250, 109424.	7.8	55
25	Evaluation of selected watershed characteristics to identify best management practices to reduce Nebraskan nitrate loads from Nebraska to the Mississippi/Atchafalaya River basin. Agriculture, Ecosystems and Environment, 2019, 277, 1-10.	5.3	15
26	Nitrate Removal by Floating Treatment Wetlands Amended with Spent Coffee: A Mesocosm-Scale Evaluation. Transactions of the ASABE, 2019, 62, 1619-1630.	1.1	5
27	Unit-bar migration and bar-trough deposition: impacts on hydraulic conductivity and grain size heterogeneity in a sandy streambed. Hydrogeology Journal, 2018, 26, 553-564.	2.1	6
28	Impact of Eastern Redcedar Proliferation on Water Resources in the Great Plains USAâ€"Current State of Knowledge. Water (Switzerland), 2018, 10, 1768.	2.7	33
29	Assessing Decadal Trends of a Nitrate-Contaminated Shallow Aquifer in Western Nebraska Using Groundwater Isotopes, Age-Dating, and Monitoring. Water (Switzerland), 2018, 10, 1047.	2.7	10
30	The assessment of water resources in ungauged catchments in Rwanda. Journal of Hydrology: Regional Studies, 2017, 13, 274-289.	2.4	13
31	Testing of the Modified Streambank Erosion and Instream Phosphorus Routines for the SWAT Model. Journal of the American Water Resources Association, 2017, 53, 101-114.	2.4	11
32	Evaluation of the TBET Model for Potential Improvement of Southern P Indices. Journal of Environmental Quality, 2017, 46, 1341-1348.	2.0	11
33	Quantifying Effectiveness of Streambank Stabilization Practices on Cedar River, Nebraska. Water (Switzerland), 2017, 9, 930.	2.7	11
34	Modeling Streambank Erosion on Composite Streambanks on a Watershed Scale. Transactions of the ASABE, 2017, 60, 753-767.	1.1	6
35	Comparing an Annual and a Daily Timeâ€Step Model for Predicting Fieldâ€Scale Phosphorus Loss. Journal of Environmental Quality, 2017, 46, 1314-1322.	2.0	14
36	Landscape and flow metrics affecting the distribution of a federally-threatened fish: Improving management, model fit, and model transferability. Ecological Modelling, 2016, 342, 1-18.	2.5	24

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37	Quantifying Legacy Phosphorus Using a Mass Balance Approach and Uncertainty Analysis. Journal of the American Water Resources Association, 2016, 52, 1297-1310.	2.4	9
38	The hydraulic conductivity structure of gravel-dominated vadose zones within alluvial floodplains. Journal of Hydrology, 2014, 513, 229-240.	5.4	26
39	Development and Testing of an Inâ€Stream Phosphorus Cycling Model for the Soil and Water Assessment Tool. Journal of Environmental Quality, 2014, 43, 215-223.	2.0	25
40	Comparison of Aquifer Sustainability Under Groundwater Administrations in Oklahoma and Texas1. Journal of the American Water Resources Association, 2011, 47, 424-431.	2.4	8
41	Comparison of subsurface and surface runoff phosphorus transport rates in alluvial floodplains. Agriculture, Ecosystems and Environment, 2011, 141, 417-425.	5.3	34
42	Stageâ€dependent transient storage of phosphorus in alluvial floodplains. Hydrological Processes, 2011, 25, 3230-3243.	2.6	31