

# R Daren Harmel

## List of Publications by Citations

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55  
papers

8,386  
citations

24  
h-index

55  
g-index

55  
ext. papers

9,789  
ext. citations

3  
avg. IF

5.71  
L-index

#	Paper	IF	Citations
55	Model Evaluation Guidelines for Systematic Quantification of Accuracy in Watershed Simulations. <i>Transactions of the ASABE</i> , <b>2007</b> , 50, 885-900	0.9	5512
54	SWAT: Model Use, Calibration, and Validation. <i>Transactions of the ASABE</i> , <b>2012</b> , 55, 1491-1508	0.9	1280
53	CUMULATIVE UNCERTAINTY IN MEASURED STREAMFLOW AND WATER QUALITY DATA FOR SMALL WATERSHEDS. <i>Transactions of the ASABE</i> , <b>2006</b> , 49, 689-701	0.9	215
52	Consideration of measurement uncertainty in the evaluation of goodness-of-fit in hydrologic and water quality modeling. <i>Journal of Hydrology</i> , <b>2007</b> , 337, 326-336	6	192
51	A framework for propagation of uncertainty contributed by parameterization, input data, model structure, and calibration/validation data in watershed modeling. <i>Environmental Modelling and Software</i> , <b>2014</b> , 54, 211-221	5.2	99
50	Soil microbial communities and enzyme activities under various poultry litter application rates. <i>Journal of Environmental Quality</i> , <b>2006</b> , 35, 1309-18	3.4	69
49	COMPILATION OF MEASURED NUTRIENT LOAD DATA FOR AGRICULTURAL LAND USES IN THE UNITED STATES. <i>Journal of the American Water Resources Association</i> , <b>2006</b> , 42, 1163-1178	2.1	58
48	Assessment and Synthesis of 50 Years of Published Drainage Phosphorus Losses. <i>Journal of Environmental Quality</i> , <b>2016</b> , 45, 1467-1477	3.4	54
47	Transformations of soil and manure phosphorus after surface application of manure to field plots. <i>Nutrient Cycling in Agroecosystems</i> , <b>2007</b> , 77, 83-99	3.3	50
46	Water quality impacts of converting to a poultry litter fertilization strategy. <i>Journal of Environmental Quality</i> , <b>2004</b> , 33, 2229-42	3.4	49
45	Assessment of drainage nitrogen losses on a yield-scaled basis. <i>Field Crops Research</i> , <b>2016</b> , 199, 156-166	5.5	43
44	4R Water Quality Impacts: An Assessment and Synthesis of Forty Years of Drainage Nitrogen Losses. <i>Journal of Environmental Quality</i> , <b>2015</b> , 44, 1852-60	3.4	40
43	A Soil Quality and Metabolic Activity Assessment after Fifty-Seven Years of Agricultural Management. <i>Soil Science Society of America Journal</i> , <b>2013</b> , 77, 903-913	2.5	40
42	The MANAGE database: nutrient load and site characteristic updates and runoff concentration data. <i>Journal of Environmental Quality</i> , <b>2008</b> , 37, 2403-6	3.4	39
41	PRACTICAL GUIDANCE FOR DISCHARGE AND WATER QUALITY DATA COLLECTION ON SMALL WATERSHEDS. <i>Transactions of the ASABE</i> , <b>2006</b> , 49, 937-948	0.9	38
40	UNCERTAINTY IN MEASURED SEDIMENT AND NUTRIENT FLUX IN RUNOFF FROM SMALL AGRICULTURAL WATERSHEDS. <i>Transactions of the American Society of Agricultural Engineers</i> , <b>2005</b> , 48, 1713-1721		38
39	Shrink-swell behavior of soil across a Vertisol catena. <i>Journal of Hydrology</i> , <b>2013</b> , 476, 352-359	6	33

38	AUTOMATED STORM WATER SAMPLING ON SMALL WATERSHEDS. <i>Applied Engineering in Agriculture</i> , <b>2003</b> , 19, 667-674	0.8	33
37	Field data and flow system response in clay (vertisol) shale terrain, north central Texas, USA. <i>Hydrological Processes</i> , <b>2005</b> , 19, 2719-2736	3.3	33
36	Assessment of measurement errors and dynamic calibration methods for three different tipping bucket rain gauges. <i>Atmospheric Research</i> , <b>2016</b> , 178-179, 445-458	5.4	27
35	SWAT Check: A Screening Tool to Assist Users in the Identification of Potential Model Application Problems. <i>Journal of Environmental Quality</i> , <b>2014</b> , 43, 208-14	3.4	27
34	A probabilistic appraisal of rainfall-runoff modeling approaches within SWAT in mixed land use watersheds. <i>Journal of Hydrology</i> , <b>2018</b> , 564, 476-489	6	26
33	Nutrient flux in storm water runoff and baseflow from managed turf. <i>Environmental Pollution</i> , <b>2007</b> , 150, 321-8	9.3	25
32	HYDROLOGIC RESPONSE OF A SMALL WATERSHED MODEL TO GENERATED PRECIPITATION. <i>Transactions of the American Society of Agricultural Engineers</i> , <b>2000</b> , 43, 1483-1488		25
31	LONG-TERM PRECIPITATION ANALYSES FOR THE CENTRAL TEXAS BLACKLAND PRAIRIE. <i>Transactions of the American Society of Agricultural Engineers</i> , <b>2003</b> , 46,		24
30	Development of Sediment and Nutrient Export Coefficients for U.S. Ecoregions. <i>Journal of the American Water Resources Association</i> , <b>2015</b> , 51, 758-775	2.1	22
29	Meta-Analysis Constrained by Data: Recommendations to Improve Relevance of Nutrient Management Research. <i>Agronomy Journal</i> , <b>2017</b> , 109, 2441-2449	2.2	21
28	Phosphorus Dynamics in Long-Term Flooded, Drained, and Reflooded Soils. <i>Water (Switzerland)</i> , <b>2017</b> , 9, 531	3	20
27	Evaluation of regression methodology with low-frequency water quality sampling to estimate constituent loads for ephemeral watersheds in Texas. <i>Journal of Environmental Quality</i> , <b>2008</b> , 37, 1847-54	3.4	19
26	Soil and Water Assessment Tool Hydrologic and Water Quality Evaluation of Poultry Litter Application to Small-Scale Subwatersheds in Texas. <i>Transactions of the ASABE</i> , <b>2007</b> , 50, 1199-1209	0.9	18
25	Impact of sampling techniques on measured stormwater quality data for small streams. <i>Journal of Environmental Quality</i> , <b>2010</b> , 39, 1734-42	3.4	17
24	EVALUATION OF EPIC FOR ASSESSING CROP YIELD, RUNOFF, SEDIMENT AND NUTRIENT LOSSES FROM WATERSHEDS WITH POULTRY LITTER FERTILIZATION. <i>Transactions of the ASABE</i> , <b>2006</b> , 49, 47-59	0.9	17
23	On-Farm Agro-Economic Effects of Fertilizing Cropland with Poultry Litter. <i>Journal of Applied Poultry Research</i> , <b>2008</b> , 17, 545-555	2	16
22	The Original USDA-ARS Experimental Watersheds in Texas and Ohio: Contributions from the Past and Visions for the Future. <i>Transactions of the ASABE</i> , <b>2007</b> , 50, 1669-1675	0.9	16
21	Improving the spatial representation of soil properties and hydrology using topographically derived initialization processes in the SWAT model. <i>Hydrological Processes</i> , <b>2016</b> , 30, 4633-4643	3.3	16

20	Effects of Annual Turkey Litter Application on Surface Soil Quality of a Texas Blackland Vertisol. <i>Soil Science</i> , <b>2011</b> , 176, 227-236	0.9	14
19	A Bayesian total uncertainty analysis framework for assessment of management practices using watershed models. <i>Environmental Modelling and Software</i> , <b>2018</b> , 108, 240-252	5.2	13
18	USDA-ARS Riesel Watersheds, Riesel, Texas, USA: Water quality research database. <i>Water Resources Research</i> , <b>2014</b> , 50, 8374-8382	5.4	13
17	Regional Blue and Green Water Balances and Use by Selected Crops in the U.S.. <i>Journal of the American Water Resources Association</i> , <b>2015</b> , 51, 1626-1642	2.1	12
16	COMPARISON OF TIME-BASED SAMPLING STRATEGIES TO DETERMINE NITROGEN LOADING IN PLOT-SCALE RUNOFF. <i>Transactions of the American Society of Agricultural Engineers</i> , <b>2004</b> , 47, 1457-1463		11
15	Impact of Poultry Litter Application and Land Use on E. coli Runoff from Small Agricultural Watersheds. <i>Biological Engineering Transactions</i> , <b>2013</b> , 6, 3-16		10
14	Assessment of Cattle Grazing Effects on E. coli Runoff. <i>Transactions of the ASABE</i> , <b>2012</b> , 55, 2111-2122	0.9	8
13	Agricultural Collaborative Research Outcomes System (AgCROS): A network of networks connecting food security, the environment, and human health. <i>Journal of Soils and Water Conservation</i> , <b>2018</b> , 73, 158A-164A	2.2	8
12	Uncertainty of CERES-Maize Calibration under Different Irrigation Strategies Using PEST Optimization Algorithm. <i>Agronomy</i> , <b>2019</b> , 9, 241	3.6	7
11	Effects of field storage method on E. coli concentrations measured in storm water runoff. <i>Environmental Monitoring and Assessment</i> , <b>2016</b> , 188, 170	3.1	7
10	Applying Statistical Causal Analyses to Agricultural Conservation: A Case Study Examining P Loss Impacts. <i>Journal of the American Water Resources Association</i> , <b>2016</b> , 52, 198-208	2.1	6
9	A Meta-Analysis on the Effect of Agricultural Conservation Practices on Nutrient Loss. <i>Journal of Environmental Quality</i> , <b>2018</b> , 47, 1172-1178	3.4	5
8	Escherichia coli Antimicrobial Resistance Variability in Water Runoff and Soil from a Remnant Native Prairie, an Improved Pasture, and a Cultivated Agricultural Watershed. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 1251	3	4
7	The Partnerships for Data Innovations (PDI): Facilitating data stewardship and catalyzing research engagement in the digital age. <i>Agricultural and Environmental Letters</i> , <b>2021</b> , 6, e20055	1.5	4
6	Comparison of nutrient loss pathways: Run-off and seepage flow in Vertisols. <i>Hydrological Processes</i> , <b>2019</b> , 33, 2384-2393	3.3	3
5	Perspectives on Global Water Security. <i>Transactions of the ASABE</i> , <b>2020</b> , 63, 69-80	0.9	3
4	Elucidating the Effects of Land Cover and Usage on Background Escherichia coli Sources in Edge-of-Field Runoff. <i>Journal of Environmental Quality</i> , <b>2019</b> , 48, 1800-1808	3.4	3
3	Quality assurance/quality control in stormwater sampling <b>2014</b> , 98-127		2

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|---|---|-----|---|
| 2 | Long-term effect of poultry litter application on phosphorus balances and runoff losses. <i>Journal of Environmental Quality</i> , <b>2021</b> , 50, 639-652    | 3-4 | 2 |
| 1 | Grazing Effects on Bovine-Associated and Background Fecal Indicator Bacteria Levels in Edge-of-Field Runoff. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 928 | 3   | 0 |