

# Greg McCarty

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/988067/publications.pdf>

Version: 2024-02-01

54  
papers

2,166  
citations

236925

25  
h-index

223800

46  
g-index

57  
all docs

57  
docs citations

57  
times ranked

2815  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long term agroecosystem research experimental watershed network. <i>Hydrological Processes</i> , 2022, 36, .	2.6	1
2	The USDAâ€œARS Experimental Watershed Network: Evolution, Lessons Learned, Societal Benefits, and Moving Forward. <i>Water Resources Research</i> , 2021, 57, e2019WR026473.	4.2	11
3	Uncertainty assessment of multi-parameter, multi-GCM, and multi-RCP simulations for streamflow and non-floodplain wetland (NFW) water storage. <i>Journal of Hydrology</i> , 2021, 600, 126564.	5.4	22
4	Isoscape Analysis for Elucidating Relationships between Soil Redistribution and Soil Carbon Dynamics. , 2020, , .		0
5	Manuresheds: Advancing nutrient recycling in US agriculture. <i>Agricultural Systems</i> , 2020, 182, 102813.	6.1	75
6	Use of Topographic Models for Mapping Soil Properties and Processes. <i>Soil Systems</i> , 2020, 4, 32.	2.6	13
7	Improved Detection of Inundation below the Forest Canopy using Normalized LiDAR Intensity Data. <i>Remote Sensing</i> , 2020, 12, 707.	4.0	16
8	Mapping Forested Wetland Inundation in the Delmarva Peninsula, USA Using Deep Convolutional Neural Networks. <i>Remote Sensing</i> , 2020, 12, 644.	4.0	35
9	Fluxes of agricultural nitrogen and metolachlor metabolites are highly correlated in a first order stream in Maryland, USA. <i>Science of the Total Environment</i> , 2020, 716, 136590.	8.0	3
10	Method to Evaluate the Age of Groundwater Inputs to Surface Waters by Determining the Chirality Change of Metolachlor Ethanesulfonic Acid (MESA) Captured on a Polar Organic Chemical Integrative Sampler (POCIS). <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 2297-2305.	5.2	5
11	Assessing the effectiveness of riparian buffers for reducing organic nitrogen loads in the Coastal Plain of the Chesapeake Bay watershed using a watershed model. <i>Journal of Hydrology</i> , 2020, 585, 124779.	5.4	17
12	Digital soil mapping in a low-relief landscape to support wetland restoration decisions. <i>Geoderma</i> , 2020, 373, 114420.	5.1	15
13	Mapping landscape-level hydrological connectivity of headwater wetlands to downstream waters: A catchment modeling approach - Part 2. <i>Science of the Total Environment</i> , 2019, 653, 1557-1570.	8.0	31
14	Enhancement of Agricultural Policy/Environment eXtender Model (APEX) Model to Assess Effectiveness of Wetland Water Quality Functions. <i>Water (Switzerland)</i> , 2019, 11, 606.	2.7	8
15	Mapping landscape-level hydrological connectivity of headwater wetlands to downstream waters: A geospatial modeling approach - Part 1. <i>Science of the Total Environment</i> , 2019, 653, 1546-1556.	8.0	27
16	Topographic and physicochemical controls on soil denitrification in prior converted croplands located on the Delmarva Peninsula, USA. <i>Geoderma</i> , 2018, 309, 41-49.	5.1	35
17	Topographic metric predictions of soil redistribution and organic carbon in Iowa cropland fields. <i>Catena</i> , 2018, 160, 222-232.	5.0	57
18	A watershed-scale model for depressional wetland-rich landscapes. <i>Journal of Hydrology X</i> , 2018, 1, 100002.	1.6	31

#	ARTICLE	IF	CITATIONS
19	Soil Organic Carbon and Isotope Composition Response to Topography and Erosion in Iowa. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 3649-3667.	3.0	14
20	Mapping Crop Residue and Tillage Intensity Using WorldView-3 Satellite Shortwave Infrared Residue Indices. <i>Remote Sensing</i> , 2018, 10, 1657.	4.0	62
21	Use of Principal Components for Scaling Up Topographic Models to Map Soil Redistribution and Soil Organic Carbon. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	4
22	Assessing the suitability of the Soil Vulnerability Index (SVI) on identifying croplands vulnerable to nitrogen loss using the SWAT model. <i>Catena</i> , 2018, 167, 1-12.	5.0	18
23	Comparative analyses of hydrological responses of two adjacent watersheds to climate variability and change using the SWAT model. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 689-708.	4.9	37
24	Evaluating Concentrated Flowpaths in Riparian Forest Buffer Contributing Areas Using LiDAR Imagery and Topographic Metrics. <i>Remote Sensing</i> , 2018, 10, 614.	4.0	21
25	Impacts of Global Circulation Model (GCM) bias and WGEN on Modeling Hydrologic Variables. <i>Water (Switzerland)</i> , 2018, 10, 764.	2.7	7
26	Transport of Conservative and “Smart” Tracers in a First-Order Creek: Role of Transient Storage Type. <i>Water (Switzerland)</i> , 2017, 9, 485.	2.7	7
27	Effect of Water Quality Sampling Approaches on Nitrate Load Predictions of a Prominent Regression-Based Model. <i>Water (Switzerland)</i> , 2017, 9, 895.	2.7	6
28	Role of Riparian Areas in Atmospheric Pesticide Deposition and Its Potential Effect on Water Quality. <i>Journal of the American Water Resources Association</i> , 2016, 52, 1109-1120.	2.4	12
29	Improving model prediction reliability through enhanced representation of wetland soil processes and constrained model auto calibration “A paired watershed study. <i>Journal of Hydrology</i> , 2016, 541, 1088-1103.	5.4	18
30	Analysis of metolachlor ethane sulfonic acid (MESA) chirality in groundwater: A tool for dating groundwater movement in agricultural settings. <i>Science of the Total Environment</i> , 2016, 560-561, 36-43.	8.0	12
31	Impacts of Watershed Characteristics and Crop Rotations on Winter Cover Crop Nitrate-Nitrogen Uptake Capacity within Agricultural Watersheds in the Chesapeake Bay Region. <i>PLoS ONE</i> , 2016, 11, e0157637.	2.5	39
32	Assessing winter cover crop nutrient uptake efficiency using a water quality simulation model. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 5239-5253.	4.9	51
33	Metolachlor metabolite (MESA) reveals agricultural nitrate-N fate and transport in Choptank River watershed. <i>Science of the Total Environment</i> , 2014, 473-474, 473-482.	8.0	25
34	Evaluation of a model framework to estimate soil and soil organic carbon redistribution by water and tillage using <sup>13</sup> Cs in two U.S. Midwest agricultural fields. <i>Geoderma</i> , 2014, 232-234, 437-448.	5.1	26
35	Denitrification in soils of hydrologically restored wetlands relative to natural and converted wetlands in the Mid-Atlantic coastal plain of the USA. <i>Ecological Engineering</i> , 2014, 71, 438-447.	3.6	20
36	Topographic Metrics for Improved Mapping of Forested Wetlands. <i>Wetlands</i> , 2013, 33, 141-155.	1.5	102

#	ARTICLE	IF	CITATIONS
37	Assessment of spectral indices for cover estimation of senescent vegetation. Remote Sensing Letters, 2013, 4, 552-560.	1.4	15
38	Enhanced Detection of Wetland-Stream Connectivity Using LiDAR. Wetlands, 2012, 32, 461-473.	1.5	100
39	Use of Airborne Hyperspectral Imagery to Map Soil Properties in Tilled Agricultural Fields. Applied and Environmental Soil Science, 2011, 2011, 1-13.	1.7	61
40	Relating nutrient and herbicide fate with landscape features and characteristics of 15 subwatersheds in the Choptank River watershed. Science of the Total Environment, 2011, 409, 3866-3878.	8.0	34
41	Ground-Penetrating Radar Detection and Three-Dimensional Mapping of Lateral Macropores: II. Riparian Application. Soil Science Society of America Journal, 2011, 75, 1236-1243.	2.2	26
42	Acquisition of NIR-Green-Blue Digital Photographs from Unmanned Aircraft for Crop Monitoring. Remote Sensing, 2010, 2, 290-305.	4.0	364
43	The Choptank Basin in Transition. Marine Science, 2010, , 135-165.	0.5	20
44	Effect of Soil Spectral Properties on Remote Sensing of Crop Residue Cover. Soil Science Society of America Journal, 2009, 73, 1545-1558.	2.2	77
45	An Improved ASTER Index for Remote Sensing of Crop Residue. Remote Sensing, 2009, 1, 971-991.	4.0	95
46	Lidar intensity for improved detection of inundation below the forest canopy. Wetlands, 2009, 29, 1166-1178.	1.5	124
47	Impact of Sedimentation on Wetland Carbon Sequestration in an Agricultural Watershed. Journal of Environmental Quality, 2009, 38, 804-813.	2.0	18
48	Variations in Base-Flow Nitrate Flux in a First-Order Stream and Riparian Zone. Journal of the American Water Resources Association, 2008, 44, 367-380.	2.4	27
49	Soil and soil organic carbon redistribution on the landscape. Geomorphology, 2007, 89, 163-171.	2.6	145
50	Can Near or Mid-Infrared Diffuse Reflectance Spectroscopy Be Used to Determine Soil Carbon Pools?. Communications in Soil Science and Plant Analysis, 2006, 37, 2307-2325.	1.4	78
51	Hydrology of a first-order riparian zone and stream, mid-Atlantic coastal plain, Maryland. Journal of Hydrology, 2005, 309, 149-166.	5.4	45
52	Influence of a Riparian Wetland on Nitrate and Herbicides Exported from an Agricultural Field. Journal of Agricultural and Food Chemistry, 2002, 50, 4424-4429.	5.2	39
53	Application of Topographic Analyses for Mapping Spatial Patterns of Soil Properties. , 0, , .		10
54	UTILIZING LANDSAT AND SENTINEL-2 TO REMOTELY MONITOR AND EVALUATE THE PERFORMANCE OF WINTER COVER CROPS THROUGHOUT MARYLAND. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3/W11, 125-130.	0.2	1