

Greg McCarty

List of Publications by Year in descending order

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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	Acquisition of NIR-Green-Blue Digital Photographs from Unmanned Aircraft for Crop Monitoring. Remote Sensing, 2010, 2, 290-305.	4.0	364
2	Soil and soil organic carbon redistribution on the landscape. Geomorphology, 2007, 89, 163-171.	2.6	145
3	Lidar intensity for improved detection of inundation below the forest canopy. Wetlands, 2009, 29, 1166-1178.	1.5	124
4	Topographic Metrics for Improved Mapping of Forested Wetlands. Wetlands, 2013, 33, 141-155.	1.5	102
5	Enhanced Detection of Wetland-Stream Connectivity Using LiDAR. Wetlands, 2012, 32, 461-473.	1.5	100
6	An Improved ASTER Index for Remote Sensing of Crop Residue. Remote Sensing, 2009, 1, 971-991.	4.0	95
7	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
8	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
9	Manuresheds: Advancing nutrient recycling in US agriculture. Agricultural Systems, 2020, 182, 102813.	6.1	75
10	Mapping Crop Residue and Tillage Intensity Using WorldView-3 Satellite Shortwave Infrared Residue Indices. Remote Sensing, 2018, 10, 1657.	4.0	62
11	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
12	Topographic metric predictions of soil redistribution and organic carbon in Iowa cropland fields. Catena, 2018, 160, 222-232.	5.0	57
13	Assessing winter cover crop nutrient uptake efficiency using a water quality simulation model. Hydrology and Earth System Sciences, 2014, 18, 5239-5253.	4.9	51
14	Hydrology of a first-order riparian zone and stream, mid-Atlantic coastal plain, Maryland. Journal of Hydrology, 2005, 309, 149-166.	5.4	45
15	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
16	Impacts of Watershed Characteristics and Crop Rotations on Winter Cover Crop Nitrate-Nitrogen Uptake Capacity within Agricultural Watersheds in the Chesapeake Bay Region. PLoS ONE, 2016, 11, e0157637.	2.5	39
17	Comparative analyses of hydrological responses of two adjacent watersheds to climate variability and change using the SWAT model. Hydrology and Earth System Sciences, 2018, 22, 689-708.	4.9	37
18	Topographic and physicochemical controls on soil denitrification in prior converted croplands located on the Delmarva Peninsula, USA. Geoderma, 2018, 309, 41-49.	5.1	35

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19	Mapping Forested Wetland Inundation in the Delmarva Peninsula, USA Using Deep Convolutional Neural Networks. <i>Remote Sensing</i> , 2020, 12, 644.	4.0	35
20	Relating nutrient and herbicide fate with landscape features and characteristics of 15 subwatersheds in the Choptank River watershed. <i>Science of the Total Environment</i> , 2011, 409, 3866-3878.	8.0	34
21	A watershed-scale model for depression wetland-rich landscapes. <i>Journal of Hydrology X</i> , 2018, 1, 100002.	1.6	31
22	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
23	Variations in Baseâ€Flow Nitrate Flux in a Firstâ€Order Stream and Riparian Zone¹. <i>Journal of the American Water Resources Association</i> , 2008, 44, 367-380.	2.4	27
24	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
25	Groundâ€Penetrating Radar Detection and Threeâ€Dimensional Mapping of Lateral Macropores: II. Riparian Application. <i>Soil Science Society of America Journal</i> , 2011, 75, 1236-1243.	2.2	26
26	Evaluation of a model framework to estimate soil and soil organic carbon redistribution by water and tillage using ¹³ Cs in two U.S. Midwest agricultural fields. <i>Geoderma</i> , 2014, 232-234, 437-448.	5.1	26
27	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
28	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
29	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
30	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
31	The Choptank Basin in Transition. <i>Marine Science</i> , 2010, , 135-165.	0.5	20
32	Impact of Sedimentation on Wetland Carbon Sequestration in an Agricultural Watershed. <i>Journal of Environmental Quality</i> , 2009, 38, 804-813.	2.0	18
33	Improving model prediction reliability through enhanced representation of wetland soil processes and constrained model auto calibration â€ A paired watershed study. <i>Journal of Hydrology</i> , 2016, 541, 1088-1103.	5.4	18
34	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
35	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
36	Improved Detection of Inundation below the Forest Canopy using Normalized LiDAR Intensity Data. <i>Remote Sensing</i> , 2020, 12, 707.	4.0	16

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37	Assessment of spectral indices for cover estimation of senescent vegetation. <i>Remote Sensing Letters</i> , 2013, 4, 552-560.	1.4	15
38	Digital soil mapping in a low-relief landscape to support wetland restoration decisions. <i>Geoderma</i> , 2020, 373, 114420.	5.1	15
39	Soil Organic Carbon and Isotope Composition Response to Topography and Erosion in Iowa. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2018, 123, 3649-3667.	3.0	14
40	Use of Topographic Models for Mapping Soil Properties and Processes. <i>Soil Systems</i> , 2020, 4, 32.	2.6	13
41	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
42	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
43	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
44	Application of Topographic Analyses for Mapping Spatial Patterns of Soil Properties. , 0, , .		10
45	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
46	Transport of Conservative and â€œSmartâ€œ Tracers in a First-Order Creek: Role of Transient Storage Type. <i>Water (Switzerland)</i> , 2017, 9, 485.	2.7	7
47	Impacts of Global Circulation Model (GCM) bias and WXGEN on Modeling Hydrologic Variables. <i>Water (Switzerland)</i> , 2018, 10, 764.	2.7	7
48	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
49	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
50	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
51	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
52	UTILIZING LANDSAT AND SENTINEL-2 TO REMOTELY MONITOR AND EVALUATE THE PERFORMANCE OF WINTER COVER CROPS THROUGHOUT MARYLAND. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-3/W11, 125-130.	0.2	1
53	Long term agroecosystem research experimental watershed network. <i>Hydrological Processes</i> , 2022, 36, .	2.6	1
54	Isoscape Analysis for Elucidating Relationships between Soil Redistribution and Soil Carbon Dynamics. , 2020, , .		0