

Michelle L Soupir

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

2,330
citations

293460

24
h-index

274796

44
g-index

90
all docs

90
docs citations

90
times ranked

3005
citing authors

#	ARTICLE	IF	CITATIONS
1	Denitrifying bioreactor microbiome: Understanding pollution swapping and potential for improved performance. <i>Journal of Environmental Quality</i> , 2022, 51, 1-18.	1.0	10
2	Empirical tool development for prairie pothole management using AnnAGNPS and random forest. <i>Environmental Modelling and Software</i> , 2022, 147, 105241.	1.9	5
3	Stacked conservation practices reduce nitrogen loss: A paired watershed study. <i>Journal of Environmental Management</i> , 2022, 302, 114053.	3.8	3
4	Degradation of tetracycline, sulfamethazine, and tylosin in soil from prairie strips and row crops in Iowa. , 2022, 5, .		2
5	Prairie Strips Impact on Transport of Antimicrobial Resistance Indicators in Poultry Litter. <i>Journal of Environmental Quality</i> , 2022, , .	1.0	4
6	Hydrophobic laser-induced graphene potentiometric ion-selective electrodes for nitrate sensing. <i>Mikrochimica Acta</i> , 2022, 189, 122.	2.5	8
7	Diversity of Antibiotic Resistance genes and Transfer Elements-Quantitative Monitoring (DARTE-QM): a method for detection of antimicrobial resistance in environmental samples. <i>Communications Biology</i> , 2022, 5, 216.	2.0	7
8	The Human Health Implications of Antibiotic Resistance in Environmental Isolates from Two Nebraska Watersheds. <i>Microbiology Spectrum</i> , 2022, 10, e0208221.	1.2	4
9	Prairie Pothole Management Support Tool: A web application for evaluating prairie pothole flood risk. , 2022, 5, .		1
10	Assessment of Input Parameters and Calibration Methods for Simulating Prairie Pothole Hydrology using AnnAGNPS. <i>Applied Engineering in Agriculture</i> , 2021, 37, 495-503.	0.3	2
11	Lake Atitlan: A Review of the Food, Energy, and Water Sustainability of a Mountain Lake in Guatemala. <i>Sustainability</i> , 2021, 13, 515.	1.6	5
12	Impact of flow on woodchip properties and subsidence in denitrifying bioreactors. , 2021, 4, e20149.		14
13	Antibiotic resistance gene dissipation in soil microcosms amended with antibiotics and swine manure. <i>Journal of Environmental Quality</i> , 2021, 50, 911-922.	1.0	6
14	Planting miscanthus instead of row crops may increase the productivity and economic performance of farmed potholes. <i>GCB Bioenergy</i> , 2021, 13, 1481-1497.	2.5	8
15	Antimicrobial resistance in integrated agroecosystems: State of the science and future opportunities. <i>Journal of Environmental Quality</i> , 2021, 50, 1255-1265.	1.0	5
16	Characterization of prairie pothole inundation using AnnAGNPS under varying management and drainage scenarios. <i>Agricultural Water Management</i> , 2021, 255, 107002.	2.4	2
17	Sectional model of a prairie buffer strip in a laboratory flume for water quality research. , 2021, 4, e20133.		1
18	Water and Health. <i>Water Science and Technology Library</i> , 2021, , 1-9.	0.2	0

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19	Comparison of microbial communities in replicated woodchip bioreactors. <i>Journal of Environmental Quality</i> , 2021, , .	1.0	4
20	Impact of stacked conservation practices on phosphorus and sediment export at the catchment scale. <i>Journal of Environmental Quality</i> , 2020, 49, 1552-1563.	1.0	3
21	Malta's Water Scarcity Challenges: Past, Present, and Future Mitigation Strategies for Sustainable Water Supplies. <i>Sustainability</i> , 2020, 12, 9835.	1.6	12
22	Denitrifying Bioreactor Woodchip Recharge: Media Properties after Nine Years. <i>Transactions of the ASABE</i> , 2020, 63, 407-416.	1.1	20
23	Spatial and temporal distribution of <i>E. coli</i> contamination on three inland lake and recreational beach systems in the upper Midwestern United States. <i>Science of the Total Environment</i> , 2020, 722, 137846.	3.9	5
24	Seasonal variations in export of antibiotic resistance genes and bacteria in runoff from an agricultural watershed in Iowa. <i>Science of the Total Environment</i> , 2020, 738, 140224.	3.9	20
25	Catchment-scale export of antibiotic resistance genes and bacteria from an agricultural watershed in central Iowa. <i>PLoS ONE</i> , 2020, 15, e0227136.	1.1	9
26	Midwestern cropping system effects on drainage water quality and crop yields. <i>Journal of Environmental Quality</i> , 2020, 49, 38-49.	1.0	11
27	Long-term impact of poultry manure on crop yield, soil and water quality, and crop revenue. <i>Journal of Environmental Management</i> , 2019, 252, 109582.	3.8	66
28	Investigating the dispersal of antibiotic resistance associated genes from manure application to soil and drainage waters in simulated agricultural farmland systems. <i>PLoS ONE</i> , 2019, 14, e0222470.	1.1	20
29	Nitrous oxide and methane production from denitrifying woodchip bioreactors at three hydraulic residence times. <i>Journal of Environmental Management</i> , 2019, 242, 290-297.	3.8	32
30	Impact of hydraulic residence time on nitrate removal in pilot-scale woodchip bioreactors. <i>Journal of Environmental Management</i> , 2019, 237, 424-432.	3.8	31
31	Catchment-scale Phosphorus Export through Surface and Drainage Pathways. <i>Journal of Environmental Quality</i> , 2019, 48, 117-126.	1.0	14
32	Effects of land management on inundation of prairie pothole wetlands in the Des Moines Lobe using AnnAGNPS. <i>Agricultural Water Management</i> , 2019, 213, 947-956.	2.4	8
33	Salmonella and Fecal Indicator Bacteria Survival in Soils Amended with Poultry Manure. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	1.1	40
34	Practical implications of erythromycin resistance gene diversity on surveillance and monitoring of resistance. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	1.3	12
35	Impact of temperature and hydraulic retention time on pathogen and nutrient removal in woodchip bioreactors. <i>Ecological Engineering</i> , 2018, 112, 153-157.	1.6	18
36	Distinguishing between metabolically active and dormant bacteria on paper. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 367-375.	1.7	15

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37	Electrical stimulation for enhanced denitrification in woodchip bioreactors: Opportunities and challenges. <i>Ecological Engineering</i> , 2018, 110, 38-47.	1.6	14
38	Seasonal variation of macrolide resistance gene abundances in the South Fork Iowa River Watershed. <i>Science of the Total Environment</i> , 2018, 610-611, 1173-1179.	3.9	23
39	Monitoring tylosin and sulfamethazine in a tile-drained agricultural watershed using polar organic chemical integrative sampler (POCIS). <i>Science of the Total Environment</i> , 2018, 612, 358-367.	3.9	17
40	Temporal Dynamics of Bacterial Communities in Soil and Leachate Water After Swine Manure Application. <i>Frontiers in Microbiology</i> , 2018, 9, 3197.	1.5	30
41	Water and Sediment Microbial Quality of Mountain and Agricultural Streams. <i>Journal of Environmental Quality</i> , 2018, 47, 985-996.	1.0	14
42	Mitigating Ammonia and PM Generation of Cage-Free Henhouse Litter with Solid Additive and Liquid Spray. <i>Transactions of the ASABE</i> , 2018, 61, 287-294.	1.1	11
43	Exploring multiple operating scenarios to identify low-cost, high nitrate removal strategies for electrically-stimulated woodchip bioreactors. <i>Ecological Engineering</i> , 2018, 120, 146-153.	1.6	3
44	Mitigating airborne bacteria generations from cage-free layer litter by spraying acidic electrolysed water. <i>Biosystems Engineering</i> , 2018, 170, 61-71.	1.9	16
45	Simulation of Daily Flow Pathways, Tile-Drain Nitrate Concentrations, and Soil-Nitrogen Dynamics Using SWAT. <i>Journal of the American Water Resources Association</i> , 2017, 53, 1251-1266.	1.0	20
46	Evaluation of Existing and Modified Wetland Equations in the SWAT Model. <i>Journal of the American Water Resources Association</i> , 2017, 53, 1267-1280.	1.0	16
47	Relating Watershed Characteristics to Elevated Stream <i>Escherichia coli</i> Levels in Agriculturally Dominated Landscapes: An Iowa Case Study. <i>Water (Switzerland)</i> , 2017, 9, 154.	1.2	11
48	Allelic Variation in Outer Membrane Protein A and Its Influence on Attachment of <i>Escherichia coli</i> to Corn Stover. <i>Frontiers in Microbiology</i> , 2017, 8, 708.	1.5	22
49	<i>Escherichia coli</i> attachment to model particulates: The effects of bacterial cell characteristics and particulate properties. <i>PLoS ONE</i> , 2017, 12, e0184664.	1.1	14
50	Mitigating Ammonia Emissions from Liquid-Sprayed Litter of Cage-Free Hen House with a Solid Litter Additive. , 2017, , .		1
51	Woodchip Denitrification Bioreactors: Impact of Temperature and Hydraulic Retention Time on Nitrate Removal. <i>Journal of Environmental Quality</i> , 2016, 45, 803-812.	1.0	100
52	Quantifying Attachment and Antibiotic Resistance of <i>Escherichia coli</i> from Conventional and Organic Swine Manure. <i>Journal of Environmental Quality</i> , 2016, 45, 609-617.	1.0	27
53	<i>E. coli</i> Surface Properties Differ between Stream Water and Sediment Environments. <i>Frontiers in Microbiology</i> , 2016, 7, 1732.	1.5	30
54	Predicting Streambed Sediment and Water Column <i>Escherichia coli</i> Levels at Watershed Scale. <i>Journal of the American Water Resources Association</i> , 2016, 52, 184-197.	1.0	21

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55	Effects of tillage and poultry manure application rates on Salmonella and fecal indicator bacteria concentrations in tiles draining Des Moines Lobe soils. <i>Journal of Environmental Management</i> , 2016, 171, 60-69.	3.8	33
56	Fate and transport of tylosin-resistant bacteria and macrolide resistance genes in artificially drained agricultural fields receiving swine manure. <i>Science of the Total Environment</i> , 2016, 550, 1126-1133.	3.9	62
57	Cellular, particle and environmental parameters influencing attachment in surface waters: a review. <i>Journal of Applied Microbiology</i> , 2015, 119, 315-330.	1.4	40
58	A neighborhood statistics model for predicting stream pathogen indicator levels. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 124.	1.3	3
59	<i>Escherichia coli</i> persistence kinetics in dairy manure at moderate, mesophilic, and thermophilic temperatures under aerobic and anaerobic environments. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 457-467.	1.7	23
60	Effects of Poultry Manure Application on Phosphorus in Soil and Tile Drain Water Under a Corn-Soybean Rotation. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	1.1	16
61	Transport and Persistence of Tylosin-Resistant Enterococci, <i>erm</i> Genes, and Tylosin in Soil and Drainage Water from Fields Receiving Swine Manure. <i>Journal of Environmental Quality</i> , 2014, 43, 1484-1493.	1.0	41
62	Nitrate-Nitrogen Export: Magnitude and Patterns from Drainage Districts to Downstream River Basins. <i>Journal of Environmental Quality</i> , 2014, 43, 2024-2033.	1.0	59
63	Flow cytometry is a promising and rapid method for differentiating between freely suspended <i>Escherichia coli</i> and <i>E. coli</i> attached to clay particles. <i>Journal of Applied Microbiology</i> , 2014, 117, 1730-1739.	1.4	13
64	Contamination of water resources by pathogenic bacteria. <i>AMB Express</i> , 2014, 4, 51.	1.4	467
65	Modelling animal waste pathogen transport from agricultural land to streams. <i>IOP Conference Series: Earth and Environmental Science</i> , 2014, 19, 012014.	0.2	2
66	Free chlorine loss during spraying of membraneless acidic electrolyzed water and its antimicrobial effect on airborne bacteria from poultry house. <i>Annals of Agricultural and Environmental Medicine</i> , 2014, 21, 249-255.	0.5	29
67	A New Model for Simulating Supplemental Irrigation and the Hydro-Economic Potential of a Rainwater Harvesting System in Humid Subtropical Climates. <i>Water Resources Management</i> , 2013, 27, 3145-3164.	1.9	14
68	Occurrence of Tylosin-Resistant Enterococci in Swine Manure and Tile Drainage Systems under No-Till Management. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	18
69	Assessing the Impacts of <i>E. coli</i> Laden Streambed Sediment on <i>E. coli</i> Loads over a Range of Flows and Sediment Characteristics. <i>Journal of the American Water Resources Association</i> , 2013, 49, 1261-1269.	1.0	46
70	Relationships Between Manure Particle and <i>E. coli</i> Transport from Direct Fecal Deposits Under Steady-State Flows. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	1
71	Assessing dairy manure pathogen indicator inactivation under anaerobic and aerobic digestions in mesophilic temperature. , 2013, , .		1
72	Release, Dispersion, and Resuspension of <i>Escherichia coli</i> From Direct Fecal Deposits Under Controlled Flows. <i>Journal of the American Water Resources Association</i> , 2013, 49, 319-327.	1.0	13

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73	Resuspension of <i>E. coli</i> from Stream Bottom Substrates. , 2012, , .		0
74	Assessing the impacts of watershed indexes and precipitation on spatial in-stream <i>E. coli</i> concentrations. <i>Ecological Indicators</i> , 2012, 23, 641-652.	2.6	46
75	A comparison of nutrient losses from two simulated pastureland management scenarios. <i>Journal of Environmental Monitoring</i> , 2012, 14, 2421.	2.1	5
76	A model for predicting resuspension of <i>Escherichia coli</i> from streambed sediments. <i>Water Research</i> , 2012, 46, 115-126.	5.3	54
77	A new method to estimate average hourly global solar radiation on the horizontal surface. <i>Atmospheric Research</i> , 2012, 114-115, 83-90.	1.8	26
78	Association of Antibiotic Resistance in Agricultural <i>Escherichia coli</i> Isolates with Attachment to Quartz. <i>Applied and Environmental Microbiology</i> , 2011, 77, 6945-6953.	1.4	16
79	Modeling Rainwater Storage in Distributed Reservoir Systems in Humid Subtropical and Tropical Savannah Regions. <i>Water Resources Management</i> , 2011, 25, 3091-3111.	1.9	18
80	<i>Escherichia coli</i> and Enterococci Attachment to Particles in Runoff from Highly and Sparsely Vegetated Grassland. <i>Water, Air, and Soil Pollution</i> , 2011, 216, 167-178.	1.1	19
81	<i>Escherichia coli</i> inactivation kinetics in anaerobic digestion of dairy manure under moderate, mesophilic and thermophilic temperatures. <i>AMB Express</i> , 2011, 1, 18.	1.4	59
82	Efficacies of inocula on the startup of anaerobic reactors treating dairy manure under stirred and unstirred conditions. <i>Biomass and Bioenergy</i> , 2011, 35, 2705-2720.	2.9	76
83	Attachment of <i>Escherichia coli</i> and Enterococci to Particles in Runoff. <i>Journal of Environmental Quality</i> , 2010, 39, 1019-1027.	1.0	68
84	Resuspension of <i>E. coli</i> from Direct Fecal Deposits in Streams. , 2010, , .		0
85	A Comparative Study of Stream Gaging Techniques for Low Flow Measurements in Two Virginia Tributaries. <i>Journal of the American Water Resources Association</i> , 2009, 45, 110-122.	1.0	13
86	Importance of interactions between the water column and the sediment for microbial concentrations in streams. <i>Water Research</i> , 2009, 43, 4579-4589.	5.3	88
87	Method to Partition Between Attached and Unattached <i>E. coli</i> in Runoff From Agricultural Lands. <i>Journal of the American Water Resources Association</i> , 2008, 44, 1591-1599.	1.0	21
88	Transport Of Fecal Bacteria From Poultry Litter and Cattle Manures Applied to Pastureland. <i>Water, Air, and Soil Pollution</i> , 2006, 169, 125-136.	1.1	99
89	EFFECTIVENESS OF POLYACRYLAMIDE (PAM) IN IMPROVING RUNOFF WATER QUALITY FROM CONSTRUCTION SITES. <i>Journal of the American Water Resources Association</i> , 2004, 40, 53-66.	1.0	24