Michelle L Soupir

List of Publications by Year
in descending order

89 papers	2,330 citations	257450 24 h-index	243625 44 g-index
90 all docs	90 docs citations	90 times ranked	2690 citing authors

#	Article	IF	Citations
1	Denitrifying bioreactor microbiome: Understanding pollution swapping and potential for improved performance. Journal of Environmental Quality, 2022, 51, 1-18.	2.0	10
2	Empirical tool development for prairie pothole management using AnnAGNPS and random forest. Environmental Modelling and Software, 2022, 147, 105241.	4.5	5
3	Stacked conservation practices reduce nitrogen loss: A paired watershed study. Journal of Environmental Management, 2022, 302, 114053.	7.8	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. Journal of Environmental Quality, 2022, , .	2.0	4
6	Hydrophobic laser-induced graphene potentiometric ion-selective electrodes for nitrate sensing. Mikrochimica Acta, 2022, 189, 122.	5.0	8
7	Diversity of Antibiotic Resistance genes and Transfer Elements-Quantitative Monitoring (DARTE-QM): a method for detection of antimicrobial resistance in environmental samples. Communications Biology, 2022, 5, 216.	4.4	7
8	The Human Health Implications of Antibiotic Resistance in Environmental Isolates from Two Nebraska Watersheds. Microbiology Spectrum, 2022, 10, e0208221.	3.0	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. Applied Engineering in Agriculture, 2021, 37, 495-503.	0.7	2
11	Lake Atitlan: A Review of the Food, Energy, and Water Sustainability of a Mountain Lake in Guatemala. Sustainability, 2021, 13, 515.	3.2	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. Journal of Environmental Quality, 2021, 50, 911-922.	2.0	6
14	Planting miscanthus instead of row crops may increase the productivity and economic performance of farmed potholes. GCB Bioenergy, 2021, 13, 1481-1497.	5.6	8
15	Antimicrobial resistance in integrated agroecosystems: State of the science and future opportunities. Journal of Environmental Quality, 2021, 50, 1255-1265.	2.0	5
16	Characterization of prairie pothole inundation using AnnAGNPS under varying management and drainage scenarios. Agricultural Water Management, 2021, 255, 107002.	5.6	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. Water Science and Technology Library, 2021, , 1-9.	0.3	0

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19	Comparison of microbial communities in replicated woodchip bioreactors. Journal of Environmental Quality, 2021, , .	2.0	4
20	Impact of stacked conservation practices on phosphorus and sediment export at the catchment scale. Journal of Environmental Quality, 2020, 49, 1552-1563.	2.0	3
21	Maltaâ€™s Water Scarcity Challenges: Past, Present, and Future Mitigation Strategies for Sustainable Water Supplies. Sustainability, 2020, 12, 9835.	3.2	12
22	Denitrifying Bioreactor Woodchip Recharge: Media Properties after Nine Years. Transactions of the ASABE, 2020, 63, 407-416.	1.1	20
23	Spatial and temporal distribution of E. coli contamination on three inland lake and recreational beach systems in the upper Midwestern United States. Science of the Total Environment, 2020, 722, 137846.	8.0	5
24	Seasonal variations in export of antibiotic resistance genes and bacteria in runoff from an agricultural watershed in Iowa. Science of the Total Environment, 2020, 738, 140224.	8.0	20
25	Catchment-scale export of antibiotic resistance genes and bacteria from an agricultural watershed in central Iowa. PLoS ONE, 2020, 15, e0227136.	2.5	9
26	Midwestern cropping system effects on drainage water quality and crop yields. Journal of Environmental Quality, 2020, 49, 38-49.	2.0	11
27	Long-term impact of poultry manure on crop yield, soil and water quality, and crop revenue. Journal of Environmental Management, 2019, 252, 109582.	7.8	66
28	Investigating the dispersal of antibiotic resistance associated genes from manure application to soil and drainage waters in simulated agricultural farmland systems. PLoS ONE, 2019, 14, e0222470.	2.5	20
29	Nitrous oxide and methane production from denitrifying woodchip bioreactors at three hydraulic residence times. Journal of Environmental Management, 2019, 242, 290-297.	7.8	32
30	Impact of hydraulic residence time on nitrate removal in pilot-scale woodchip bioreactors. Journal of Environmental Management, 2019, 237, 424-432.	7.8	31
31	Catchmentâ€scale Phosphorus Export through Surface and Drainage Pathways. Journal of Environmental Quality, 2019, 48, 117-126.	2.0	14
32	Effects of land management on inundation of prairie pothole wetlands in the Des Moines Lobe using AnnAGNPS. Agricultural Water Management, 2019, 213, 947-956.	5.6	8
33	Salmonella and Fecal Indicator Bacteria Survival in Soils Amended with Poultry Manure. Water, Air, and Soil Pollution, 2018, 229, 1.	2.4	40
34	Practical implications of erythromycin resistance gene diversity on surveillance and monitoring of resistance. FEMS Microbiology Ecology, 2018, 94, .	2.7	12
35	Impact of temperature and hydraulic retention time on pathogen and nutrient removal in woodchip bioreactors. Ecological Engineering, 2018, 112, 153-157.	3.6	18
36	Distinguishing between metabolically active and dormant bacteria on paper. Applied Microbiology and Biotechnology, 2018, 102, 367-375.	3.6	15

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37	Electrical stimulation for enhanced denitrification in woodchip bioreactors: Opportunities and challenges. Ecological Engineering, 2018, 110, 38-47.	3.6	14
38	Seasonal variation of macrolide resistance gene abundances in the South Fork Iowa River Watershed. Science of the Total Environment, 2018, 610-611, 1173-1179.	8.0	23
39	Monitoring tylosin and sulfamethazine in a tile-drained agricultural watershed using polar organic chemical integrative sampler (POCIS). Science of the Total Environment, 2018, 612, 358-367.	8.0	17
40	Temporal Dynamics of Bacterial Communities in Soil and Leachate Water After Swine Manure Application. Frontiers in Microbiology, 2018, 9, 3197.	3.5	30
41	Water and Sediment Microbial Quality of Mountain and Agricultural Streams. Journal of Environmental Quality, 2018, 47, 985-996.	2.0	14
42	Mitigating Ammonia and PM Generation of Cage-Free Henhouse Litter with Solid Additive and Liquid Spray. Transactions of the ASABE, 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. Ecological Engineering, 2018, 120, 146-153.	3.6	3
44	Mitigating airborne bacteria generations from cage-free layer litter by spraying acidic electrolysed water. Biosystems Engineering, 2018, 170, 61-71.	4.3	16
45	Simulation of Daily Flow Pathways, Tileâ€Drain Nitrate Concentrations, and Soilâ€Nitrogen Dynamics Using SWAT. Journal of the American Water Resources Association, 2017, 53, 1251-1266.	2.4	20
46	Evaluation of Existing and Modified Wetland Equations in the <scp>SWAT</scp> Model. Journal of the American Water Resources Association, 2017, 53, 1267-1280.	2.4	16
47	Relating Watershed Characteristics to Elevated Stream Escherichia coli Levels in Agriculturally Dominated Landscapes: An Iowa Case Study. Water (Switzerland), 2017, 9, 154.	2.7	11
48	Allelic Variation in Outer Membrane Protein A and Its Influence on Attachment of Escherichia coli to Corn Stover. Frontiers in Microbiology, 2017, 8, 708.	3.5	22
49	Escherichia coli attachment to model particulates: The effects of bacterial cell characteristics and particulate properties. PLoS ONE, 2017, 12, e0184664.	2.5	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. Journal of Environmental Quality, 2016, 45, 803-812.	2.0	100
52	Quantifying Attachment and Antibiotic Resistance of Escherichia coli from Conventional and Organic Swine Manure. Journal of Environmental Quality, 2016, 45, 609-617.	2.0	27
53	E. coli Surface Properties Differ between Stream Water and Sediment Environments. Frontiers in Microbiology, 2016, 7, 1732.	3.5	30
54	Predicting Streambed Sediment and Water Column Escherichia coli Levels at Watershed Scale. Journal of the American Water Resources Association, 2016, 52, 184-197.	2.4	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. Journal of Environmental Management, 2016, 171, 60-69.	7.8	33
56	Fate and transport of tylosin-resistant bacteria and macrolide resistance genes in artificially drained agricultural fields receiving swine manure. Science of the Total Environment, 2016, 550, 1126-1133.	8.0	62
57	Cellular, particle and environmental parameters influencing attachment in surface waters: a review. Journal of Applied Microbiology, 2015, 119, 315-330.	3.1	40
58	A neighborhood statistics model for predicting stream pathogen indicator levels. Environmental Monitoring and Assessment, 2015, 187, 124.	2.7	3
59	Escherichia coli persistence kinetics in dairy manure at moderate, mesophilic, and thermophilic temperatures under aerobic and anaerobic environments. Bioprocess and Biosystems Engineering, 2015, 38, 457-467.	3.4	23
60	Effects of Poultry Manure Application on Phosphorus in Soil and Tile Drain Water Under a Corn-Soybean Rotation. Water, Air, and Soil Pollution, 2015, 226, 1.	2.4	16
61	Transport and Persistence of Tylosin-Resistant Enterococci, erm Genes, and Tylosin in Soil and Drainage Water from Fields Receiving Swine Manure. Journal of Environmental Quality, 2014, 43, 1484-1493.	2.0	41
62	Nitrate-Nitrogen Export: Magnitude and Patterns from Drainage Districts to Downstream River Basins. Journal of Environmental Quality, 2014, 43, 2024-2033.	2.0	59
63	Flow cytometry is a promising and rapid method for differentiating between freely suspended Escherichia coli and E.Âcoli attached to clay particles. Journal of Applied Microbiology, 2014, 117, 1730-1739.	3.1	13
64	Contamination of water resources by pathogenic bacteria. AMB Express, 2014, 4, 51.	3.0	467
65	Modelling animal waste pathogen transport from agricultural land to streams. IOP Conference Series: Earth and Environmental Science, 2014, 19, 012014.	0.3	2
66	Free chlorine loss during spraying of membraneless acidic electrolyzed water and its antimicrobial effect on airborne bacteria from poultry house. Annals of Agricultural and Environmental Medicine, 2014, 21, 249-255.	1.0	29
67	A New Model for Simulating Supplemental Irrigation and the Hydro-Economic Potential of a Rainwater Harvesting System in Humid Subtropical Climates. Water Resources Management, 2013, 27, 3145-3164.	3.9	14
68	Occurrence of Tylosin-Resistant Enterococci in Swine Manure and Tile Drainage Systems under No-Till Management. Water, Air, and Soil Pollution, 2013, 224, 1.	2.4	18
69	Assessing the Impacts of <scp>E</scp>. coli Laden Streambed Sediment on E. coli Loads over a Range of Flows and Sediment Characteristics. Journal of the American Water Resources Association, 2013, 49, 1261-1269.	2.4	46
70	Relationships Between Manure Particle and E. coli Transport from Direct Fecal Deposits Under Steady-State Flows. Water, Air, and Soil Pollution, 2013, 224, 1.	2.4	1
71	Assessing dairy manure pathogen indicator inactivation under anaerobic and aerobic digestions in mesophilic temperature. , 2013, , .		1
72	Release, Dispersion, and Resuspension of Escherichia coli From Direct Fecal Deposits Under Controlled Flows¹. Journal of the American Water Resources Association, 2013, 49, 319-327.	2.4	13

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73	Resuspension of E. coli from Stream Bottom Substrates. , 2012, , .		0
74	Assessing the impacts of watershed indexes and precipitation on spatial in-stream E. coli concentrations. Ecological Indicators, 2012, 23, 641-652.	6.3	46
75	A comparison of nutrient losses from two simulated pastureland management scenarios. Journal of Environmental Monitoring, 2012, 14, 2421.	2.1	5
76	A model for predicting resuspension of Escherichia coli from streambed sediments. Water Research, 2012, 46, 115-126.	11.3	54
77	A new method to estimate average hourly global solar radiation on the horizontal surface. Atmospheric Research, 2012, 114-115, 83-90.	4.1	26
78	Association of Antibiotic Resistance in Agricultural Escherichia coli Isolates with Attachment to Quartz. Applied and Environmental Microbiology, 2011, 77, 6945-6953.	3.1	16
79	Modeling Rainwater Storage in Distributed Reservoir Systems in Humid Subtropical and Tropical Savannah Regions. Water Resources Management, 2011, 25, 3091-3111.	3.9	18
80	Escherichia coli and Enterococci Attachment to Particles in Runoff from Highly and Sparsely Vegetated Grassland. Water, Air, and Soil Pollution, 2011, 216, 167-178.	2.4	19
81	Escherichia coli inactivation kinetics in anaerobic digestion of dairy manure under moderate, mesophilic and thermophilic temperatures. AMB Express, 2011, 1, 18.	3.0	59
82	Efficacies of inocula on the startup of anaerobic reactors treating dairy manure under stirred and unstirred conditions. Biomass and Bioenergy, 2011, 35, 2705-2720.	5.7	76
83	Attachment of Escherichia coli and Enterococci to Particles in Runoff. Journal of Environmental Quality, 2010, 39, 1019-1027.	2.0	68
84	Resuspension of E. coli from Direct Fecal Deposits in Streams. , 2010, , .		0
85	A Comparative Study of Streamâ€Gaging Techniques for Lowâ€Flow Measurements in Two Virginia Tributaries¹. Journal of the American Water Resources Association, 2009, 45, 110-122.	2.4	13
86	Importance of interactions between the water column and the sediment for microbial concentrations in streams. Water Research, 2009, 43, 4579-4589.	11.3	88
87	Method to Partition Between Attached and Unattached E. coli in Runoff From Agricultural Lands¹. Journal of the American Water Resources Association, 2008, 44, 1591-1599.	2.4	21
88	Transport Of Fecal Bacteria From Poultry Litter and Cattle Manures Applied to Pastureland. Water, Air, and Soil Pollution, 2006, 169, 125-136.	2.4	99
89	EFFECTIVENESS OF POLYACRYLAMIDE (PAM) IN IMPROVING RUNOFF WATER QUALITY FROM CONSTRUCTION SITES. Journal of the American Water Resources Association, 2004, 40, 53-66.	2.4	24