

Laura E Christianson

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

1,046
citations

20
h-index

31
g-index

57
ext. papers

1,299
ext. citations

4.1
avg, IF

4.79
L-index

#	Paper	IF	Citations
55	Denitrifying Bioreactors for Nitrate Removal: A Meta-Analysis. <i>Journal of Environmental Quality</i> , 2016 , 45, 873-81	3.4	132
54	Optimizing Hydraulic Retention Times in Denitrifying Woodchip Bioreactors Treating Recirculating Aquaculture System Wastewater. <i>Journal of Environmental Quality</i> , 2016 , 45, 813-21	3.4	71
53	Assessment and Synthesis of 50 Years of Published Drainage Phosphorus Losses. <i>Journal of Environmental Quality</i> , 2016 , 45, 1467-1477	3.4	54
52	Denitrifying woodchip bioreactor and phosphorus filter pairing to minimize pollution swapping. <i>Water Research</i> , 2017 , 121, 129-139	12.5	51
51	Internal hydraulics of an agricultural drainage denitrification bioreactor. <i>Ecological Engineering</i> , 2013 , 52, 298-307	3.9	46
50	Financial comparison of seven nitrate reduction strategies for Midwestern agricultural drainage. <i>Water Resources and Economics</i> , 2013 , 2-3, 30-56	2	46
49	Assessment of drainage nitrogen losses on a yield-scaled basis. <i>Field Crops Research</i> , 2016 , 199, 156-166	5.5	43
48	Nitrate removal effectiveness of fluidized sulfur-based autotrophic denitrification biofilters for recirculating aquaculture systems. <i>Aquacultural Engineering</i> , 2015 , 68, 10-18	3	41
47	4R Water Quality Impacts: An Assessment and Synthesis of Forty Years of Drainage Nitrogen Losses. <i>Journal of Environmental Quality</i> , 2015 , 44, 1852-60	3.4	40
46	Pilot-Scale Evaluation of Denitrification Drainage Bioreactors: Reactor Geometry and Performance. <i>Journal of Environmental Engineering, ASCE</i> , 2011 , 137, 213-220	2	39
45	Beyond the nutrient strategies: Common ground to accelerate agricultural water quality improvement in the upper Midwest. <i>Journal of Environmental Management</i> , 2018 , 206, 1072-1080	7.9	37
44	Heterotrophic denitrification of aquaculture effluent using fluidized sand biofilters. <i>Aquacultural Engineering</i> , 2015 , 64, 49-59	3	37
43	Performance of Agricultural Residue Media in Laboratory Denitrifying Bioreactors at Low Temperatures. <i>Journal of Environmental Quality</i> , 2016 , 45, 779-87	3.4	37
42	The MANAGE Drain Load database: Review and compilation of more than fifty years of North American drainage nutrient studies. <i>Agricultural Water Management</i> , 2015 , 159, 277-289	5.9	35
41	Moving Denitrifying Bioreactors beyond Proof of Concept: Introduction to the Special Section. <i>Journal of Environmental Quality</i> , 2016 , 45, 757-61	3.4	35
40	Denitrifying bioreactor clogging potential during wastewater treatment. <i>Water Research</i> , 2016 , 105, 147-156	12.5	30
39	Modeling and mitigation of denitrification Woodchip Bioreactor phosphorus releases during treatment of aquaculture wastewater. <i>Ecological Engineering</i> , 2016 , 93, 135-143	3.9	26

38	Optimized denitrification bioreactor treatment through simulated drainage containment. <i>Agricultural Water Management</i> , 2011 , 99, 85-92	5.9	25
37	Meta-Analysis Constrained by Data: Recommendations to Improve Relevance of Nutrient Management Research. <i>Agronomy Journal</i> , 2017 , 109, 2441-2449	2.2	21
36	Drying-Rewetting Cycles Affect Nitrate Removal Rates in Woodchip Bioreactors. <i>Journal of Environmental Quality</i> , 2019 , 48, 93-101	3.4	20
35	Modeling and Calibration of Drainage Denitrification Bioreactor Design Criteria. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2013 , 139, 699-709	1.1	18
34	Adoption potential of nitrate mitigation practices: an ecosystem services approach. <i>International Journal of Agricultural Sustainability</i> , 2014 , 12, 407-424	2.2	12
33	Fluidization velocity assessment of commercially available sulfur particles for use in autotrophic denitrification biofilters. <i>Aquacultural Engineering</i> , 2014 , 60, 1-5	3	10
32	Enhanced Denitrification Bioreactors Hold Promise for Mid-Atlantic Ditch Drainage. <i>Agricultural and Environmental Letters</i> , 2017 , 2, 170032	1.5	10
31	Evaluation of fly ash pellets for phosphorus removal in a laboratory scale denitrifying bioreactor. <i>Journal of Environmental Management</i> , 2018 , 207, 269-275	7.9	10
30	Expansion of the MANAGE Database with Forest and Drainage Studies. <i>Journal of the American Water Resources Association</i> , 2016 , 52, 1275-1279	2.1	9
29	Woodchip bioreactors as treatment for recirculating aquaculture systems wastewater: A cost assessment of nitrogen removal. <i>Aquacultural Engineering</i> , 2018 , 83, 85-92	3	9
28	Saturated Buffers: What Is Their Potential Impact across the US Midwest?. <i>Agricultural and Environmental Letters</i> , 2019 , 4, 180059	1.5	8
27	Combining Environmental Monitoring and Remote Sensing Technologies to Evaluate Cropping System Nitrogen Dynamics at the Field-Scale. <i>Frontiers in Sustainable Food Systems</i> , 2019 , 3,	4.8	8
26	Performance of Denitrifying Bioreactors at Reducing Agricultural Nitrogen Pollution in a Humid Subtropical Coastal Plain Climate. <i>Water (Switzerland)</i> , 2017 , 9, 112	3	8
25	The MANAGE Drain Concentration database: A new tool compiling North American drainage nutrient concentrations. <i>Agricultural Water Management</i> , 2019 , 216, 113-117	5.9	7
24	Denitrifying Bioreactor Woodchip Recharge: Media Properties after Nine Years. <i>Transactions of the ASABE</i> , 2020 , 63, 407-416	0.9	7
23	Relative performance of different data mining techniques for nitrate concentration and load estimation in different type of watersheds. <i>Environmental Pollution</i> , 2020 , 263, 114618	9.3	7
22	Denitrifying bioreactor inflow manifold design for treatment of aquacultural wastewater. <i>Aquacultural Engineering</i> , 2020 , 88, 102036	3	7
21	Plastic Biofilm Carrier after Corn Cobs Reduces Nitrate Loading in Laboratory Denitrifying Bioreactors. <i>Journal of Environmental Quality</i> , 2017 , 46, 915-920	3.4	5

20	Metal leaching and toxicity of denitrifying woodchip bioreactor outflow application. <i>Aquacultural Engineering</i> , 2021 , 93, 102129	Potential reuse	3	5
19	Increased Duration of Drying/Bewetting Cycles Increases Nitrate Removal in Woodchip Bioreactors. <i>Agricultural and Environmental Letters</i> , 2019 , 4, 190028		1.5	4
18	Seeking a dialogue: a targeted technology for sustainable agricultural systems in the American Corn Belt. <i>Sustainability: Science, Practice, and Policy</i> , 2011 , 7, 70-77		6.8	4
17	Potential Design Methodology for Agricultural Drainage Denitrification Bioreactors 2011 ,			4
16	Effectiveness of Denitrifying Bioreactors on Water Pollutant Reduction from Agricultural Areas. <i>Transactions of the ASABE</i> , 2021 , 64, 641-658		0.9	4
15	Scientifically advanced woody media for improved water quality from livestock woodchip heavy-use areas. <i>Frontiers of Environmental Science and Engineering</i> , 2017 , 11, 1		5.8	3
14	Plastic carrier polishing chamber reduces pollution swapping from denitrifying woodchip bioreactors. <i>Aquacultural Engineering</i> , 2018 , 81, 33-37		3	3
13	Use of rapid small-scale column tests for simultaneous prediction of phosphorus and nitrogen retention in large-scale filters. <i>Journal of Water Process Engineering</i> , 2020 , 37, 101473		6.7	3
12	Split-nitrogen application with cover cropping reduces subsurface nitrate losses while maintaining corn yields. <i>Journal of Environmental Quality</i> , 2021 , 50, 1408-1418		3.4	3
11	Relationship of in-season soil nitrogen concentration with corn yield and potential nitrogen losses. <i>Soil Science Society of America Journal</i> , 2020 , 84, 1296-1306		2.5	2
10	Denitrifying Woodchip Bioreactor Leachate Tannic Acid and True Color: Lab and Field Studies. <i>Transactions of the ASABE</i> , 2020 , 63, 1747-1757		0.9	2
9	Biological Nitrate Removal With Emerald Ash Borer-Killed Ash and High-Tannin Oak Woodchips. <i>Frontiers in Environmental Science</i> , 2021 , 9,		4.8	2
8	Analysis of the MANAGE Drain Concentration Database to Evaluate Agricultural Management Effects on Drainage Water Nutrient Concentrations. <i>Transactions of the ASABE</i> , 2019 , 62, 929-939		0.9	1
7	In-season split nitrogen application and cover cropping effects on nitrous oxide emissions in rainfed maize. <i>Agriculture, Ecosystems and Environment</i> , 2022 , 326, 107813		5.7	1
6	High-frequency, in situ sampling of field woodchip bioreactors reveals sources of sampling error and hydraulic inefficiencies. <i>Journal of Environmental Management</i> , 2020 , 272, 110996		7.9	1
5	Calibration of Stainless Steel-edged V-Notch Weir Stop Logs for Water Level Control Structures. <i>Applied Engineering in Agriculture</i> , 2019 , 35, 745-749		0.8	1
4	Efficacy of heated tourmaline in reducing biomass clogging within woodchip bioreactors. <i>Science of the Total Environment</i> , 2021 , 755, 142401		10.2	1
3	Phosphorus removal in denitrifying woodchip bioreactors varies by wood type and water chemistry. <i>Environmental Science and Pollution Research</i> , 2021 , 1		5.1	1

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| 2 | Design flow and nitrate removal evaluation of a wide denitrifying bioreactor with baffles. <i>Ecological Engineering</i> , 2020 , 158, 106068 | 3.9 | ○ |
| 1 | Nitrate Removal and Woodchip Properties across a Paired Denitrifying Bioreactor Treating Centralized Agricultural Ditch Flows. <i>Water (Switzerland)</i> , 2022 , 14, 56 | 3 | ○ |