

# Rodrick D Lentz

## List of Publications by Year in descending order

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38  
papers

2,459  
citations

430442

18  
h-index

377514

34  
g-index

38  
all docs

38  
docs citations

38  
times ranked

2839  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biochar: A Synthesis of Its Agronomic Impact beyond Carbon Sequestration. <i>Journal of Environmental Quality</i> , 2012, 41, 973-989.	1.0	738
2	Polyacrylamide in Agriculture and Environmental Land Management. <i>Advances in Agronomy</i> , 2007, , 75-162.	2.4	308
3	Contrasting effects of biochar versus manure on soil microbial communities and enzyme activities in an Aridisol. <i>Chemosphere</i> , 2016, 142, 145-152.	4.2	181
4	Biochar and Manure Affect Calcareous Soil and Corn Silage Nutrient Concentrations and Uptake. <i>Journal of Environmental Quality</i> , 2012, 41, 1033-1043.	1.0	170
5	Addition of activated switchgrass biochar to an aridic subsoil increases microbial nitrogen cycling gene abundances. <i>Applied Soil Ecology</i> , 2013, 65, 65-72.	2.1	170
6	Polyacrylamide as an organic nitrogen source for soil microorganisms with potential effects on inorganic soil nitrogen in agricultural soil. <i>Soil Biology and Biochemistry</i> , 1998, 30, 1045-1052.	4.2	132
7	Polyacrylamide as a substrate for microbial amidase in culture and soil. <i>Soil Biology and Biochemistry</i> , 1998, 30, 1647-1654.	4.2	91
8	Biochar and Manure Effects on Net Nitrogen Mineralization and Greenhouse Gas Emissions from Calcareous Soil under Corn. <i>Soil Science Society of America Journal</i> , 2014, 78, 1641-1655.	1.2	82
9	Designer, acidic biochar influences calcareous soil characteristics. <i>Chemosphere</i> , 2016, 142, 184-191.	4.2	79
10	Toxicity of Anionic Polyacrylamide Formulations when Used for Erosion Control in Agriculture. <i>Journal of Environmental Quality</i> , 2009, 38, 238-247.	1.0	59
11	Polyacrylamide and biopolymer effects on flocculation, aggregate stability, and water seepage in a silt loam. <i>Geoderma</i> , 2015, 241-242, 289-294.	2.3	59
12	Multi-year and multi-location soil quality and crop biomass yield responses to hardwood fast pyrolysis biochar. <i>Geoderma</i> , 2017, 289, 46-53.	2.3	54
13	Long-Term Polyacrylamide Formulation Effects on Soil Erosion, Water Infiltration, and Yields of Furrow-Irrigated Crops. <i>Agronomy Journal</i> , 2009, 101, 305-314.	0.9	44
14	Hardwood biochar and manure co-application to a calcareous soil. <i>Chemosphere</i> , 2016, 142, 84-91.	4.2	44
15	POLYACRYLAMIDE FOR SURFACE IRRIGATION TO INCREASE NUTRIENT-USE EFFICIENCY AND PROTECT WATER QUALITY. <i>Communications in Soil Science and Plant Analysis</i> , 2001, 32, 1203-1220.	0.6	27
16	Acrylamide Monomer Leaching from Polyacrylamide-treated Irrigation Furrows. <i>Journal of Environmental Quality</i> , 2008, 37, 2293-2298.	1.0	24
17	Inhibiting Water Infiltration into Soils with Cross-linked Polyacrylamide: Seepage Reduction for Irrigated Agriculture. <i>Soil Science Society of America Journal</i> , 2007, 71, 1352-1362.	1.2	20
18	Dairy Manure Nitrogen Availability in Eroded and Noneroded Soil for Sugarbeet Followed by Small Grains. <i>Agronomy Journal</i> , 2011, 103, 628-643.	0.9	20

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19	Net Nitrogen Mineralization from Past Years' Manure and Fertilizer Applications. Soil Science Society of America Journal, 2012, 76, 1005-1015.	1.2	17
20	Manure and Fertilizer Effects on Carbon Balance and Organic and Inorganic Carbon Losses for an Irrigated Corn Field. Soil Science Society of America Journal, 2014, 78, 987-1002.	1.2	17
21	Nutrients in Runoff from a Furrow-Irrigated Field after Incorporating Inorganic Fertilizer or Manure. Journal of Environmental Quality, 2010, 39, 1402-1415.	1.0	13
22	Mineral Fertilizer and Manure Effects on Leached Inorganic Nitrogen, Nitrate Isotopic Composition, Phosphorus, and Dissolved Organic Carbon under Furrow Irrigation. Journal of Environmental Quality, 2018, 47, 287-296.	1.0	13
23	Biochar, Manure, and Sawdust Alter Long-Term Water Retention Dynamics in Degraded Soil. Soil Science Society of America Journal, 2019, 83, 1491-1501.	1.2	12
24	Temporal changes in $\delta^{18}O$ and $\delta^{15}N$ of nitrate nitrogen and H <sub>2</sub> O in shallow groundwater: Transit time and nitrate-source implications for an irrigated tract in southern Idaho. Agricultural Water Management, 2019, 212, 126-135.	2.4	11
25	Fate and Efficacy of Polyacrylamide Applied in Furrow Irrigation. Journal of Environmental Quality, 2002, 31, 661.	1.0	9
26	SEDIMENT AND POLYACRYLAMIDE EFFECTS ON SEEPAGE FROM CHANNELED FLOWS. Soil Science, 2007, 172, 770-789.	0.9	9
27	Managing Runoff Water Quality from Recently Manured, Furrow-Irrigated Fields. Soil Science Society of America Journal, 2010, 74, 1310-1319.	1.2	8
28	Changes in groundwater quality and agriculture in forty years on the Twin Falls irrigation tract in southern Idaho. Journal of Soils and Water Conservation, 2018, 73, 107-119.	0.8	8
29	Fate and efficacy of polyacrylamide applied in furrow irrigation: full-advance and continuous treatments. Journal of Environmental Quality, 2002, 31, 661-70.	1.0	8
30	Nitrogen Availability and Uptake by Sugarbeet in Years Following a Manure Application. International Journal of Agronomy, 2012, 2012, 1-12.	0.5	7
31	Automated System for Collecting Multiple, Sequential Samples from Soil Water Percolation Samplers under Continuous Vacuum. Communications in Soil Science and Plant Analysis, 2006, 37, 1195-1203.	0.6	6
32	Irrigation-Induced. , 2014, , .		6
33	Long-term water retention increases in degraded soils amended with cross-linked polyacrylamide. Agronomy Journal, 2020, 112, 2569-2580.	0.9	6
34	Biochar and Manure Affect Calcareous Soil and Corn Silage Nutrient Concentrations and Uptake. Journal of Environmental Quality, 2014, 43, 775-775.	1.0	4
35	Delayed Sample Filtration and Storage Effects on Dissolved Nutrients Measured in Agricultural Runoff. Communications in Soil Science and Plant Analysis, 2013, 44, 2952-2960.	0.6	2
36	Cross-linked polymers increase nutrient sorption in degraded soils. Agronomy Journal, 2021, 113, 1121-1135.	0.9	1

#	ARTICLE	IF	CITATIONS
37	Does Turbulent-flow Conditioning of Irrigation Water Influence Soil Chemical Processes: II. Long-term Soil and Crop Study. Communications in Soil Science and Plant Analysis, 2022, 53, 636-650.	0.6	0
38	Does Turbulent-Flow Conditioning of Irrigation Water Influence Soil Chemical Processes: I. Laboratory Results. Communications in Soil Science and Plant Analysis, 2022, 53, 651-663.	0.6	0