

# Robert N Lerch

## List of Publications by Year in descending order

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37  
papers

946  
citations

489802

18  
h-index

511568

30  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1283  
citing authors

#	ARTICLE	IF	CITATIONS
1	Clothianidin decomposition in Missouri wetland soils. <i>Journal of Environmental Quality</i> , 2021, 50, 241-251.	1.0	6
2	Drivers of Hot Spots and Hot Moments of Denitrification in Agricultural Systems. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006234.	1.3	12
3	Estimating simazine-treated area in watersheds based on annual stream loads. <i>Journal of Environmental Quality</i> , 2021, 50, 1184-1195.	1.0	0
4	Determining Hydrologic Pathways of Streamflow Using Geochemical Tracers in a Claypan Watershed. <i>Hydrological Processes</i> , 2020, 34, 2494.	1.1	5
5	Dicamba Losses to Air after Applications to Soybean under Stable and Nonstable Atmospheric Conditions. <i>Journal of Environmental Quality</i> , 2019, 48, 1675-1682.	1.0	40
6	Imidacloprid Sorption and Transport in Cropland, Grass Buffer, and Riparian Buffer Soils. <i>Vadose Zone Journal</i> , 2018, 17, 1-12.	1.3	108
7	Controls on nitrate- $\text{N}$ concentrations in groundwater in a Missourian claypan watershed. <i>Earth and Space Science</i> , 2016, 3, 90-105.	1.1	5
8	Mechanisms of Bond Cleavage during Manganese Oxide and UV Degradation of Glyphosate: Results from Phosphate Oxygen Isotopes and Molecular Simulations. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 8474-8482.	2.4	46
9	Veterinary Antibiotic Effects on Atrazine Degradation and Soil Microorganisms. <i>Journal of Environmental Quality</i> , 2016, 45, 565-575.	1.0	13
10	Long-Term Agroecosystem Research in the Central Mississippi River Basin: Hyperspectral Remote Sensing of Reservoir Water Quality. <i>Journal of Environmental Quality</i> , 2015, 44, 71-83.	1.0	16
11	Long-Term Agroecosystem Research in the Central Mississippi River Basin: Introduction, Establishment, and Overview. <i>Journal of Environmental Quality</i> , 2015, 44, 3-12.	1.0	35
12	Long-Term Agroecosystem Research in the Central Mississippi River Basin: Hydrogeologic Controls and Crop Management Influence on Nitrates in Loess and Fractured Glacial Till. <i>Journal of Environmental Quality</i> , 2015, 44, 58-70.	1.0	8
13	Identification of an Atrazine-Degrading Benzoxazinoid in Eastern Gamagrass ( <i>Tripsacum dactyloides</i> ). <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 8026-8033.	2.4	8
14	Sulfamethazine Sorption to Soil: Vegetative Management, pH, and Dissolved Organic Matter Effects. <i>Journal of Environmental Quality</i> , 2013, 42, 794-805.	1.0	38
15	Long-term suspended sediment transport in the Goodwater Creek Experimental Watershed and Salt River Basin, Missouri, USA. <i>Water Resources Research</i> , 2013, 49, 7827-7830.	1.7	11
16	Electroantennographic Responses of the Small Chestnut Weevil <i>Curculio sayi</i> (Coleoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td Environmental Entomology, 2012, 41, 933-940.	0.7	7
17	Adsorption of Isoxaflutole Degradates to Aluminum and Iron Hydrous Oxides. <i>Journal of Environmental Quality</i> , 2011, 40, 528-537.	1.0	4
18	Stimulated Rhizodegradation of Atrazine by Selected Plant Species. <i>Journal of Environmental Quality</i> , 2011, 40, 1113-1121.	1.0	30

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19	Reducing Herbicides and Veterinary Antibiotics Losses from Agroecosystems Using Vegetative Buffers. <i>Journal of Environmental Quality</i> , 2011, 40, 791-799.	1.0	57
20	Evaluation of PCR-based Quantification Techniques to Estimate the Abundance of Atrazine Chlorohydrolase Gene <i>atzA</i> in Rhizosphere Soils. <i>Journal of Environmental Quality</i> , 2010, 39, 1999-2005.	1.0	4
21	Dissipation of Sulfamethazine and Tetracycline in the Root Zone of Grass and Tree Species. <i>Journal of Environmental Quality</i> , 2010, 39, 1269-1278.	1.0	28
22	Improved GC-MS/MS Method for Determination of Atrazine and Its Chlorinated Metabolites in Forage Plants—Laboratory and Field Experiments. <i>Communications in Soil Science and Plant Analysis</i> , 2007, 38, 1753-1773.	0.6	19
23	Reaction Pathways of the Diketonitrile Degradate of Isoxaflutole with Hypochlorite in Water. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 1893-1899.	2.4	10
24	Influence of watershed system management on herbicide concentrations in Mississippi Delta oxbow lakes. <i>Science of the Total Environment</i> , 2006, 370, 552-560.	3.9	32
25	Dynamics of Herbicide Concentrations in Mississippi Delta Oxbow Lakes and the Role of Planktonic Microorganisms in Herbicide Metabolism. <i>ACS Symposium Series</i> , 2004, , 134-149.	0.5	3
26	Degradation of Isoxaflutole (Balance) Herbicide by Hypochlorite in Tap Water. <i>Journal of Agricultural and Food Chemistry</i> , 2003, 51, 8011-8014.	2.4	23
27	Watershed Vulnerability To Herbicide Transport in Northern Missouri and Southern Iowa Streams. <i>Environmental Science &amp; Technology</i> , 2003, 37, 5518-5527.	4.6	72
28	Identification of Trifluralin Metabolites in Soil Using Ion-Trap LC/MS/MS. <i>ACS Symposium Series</i> , 2003, , 291-310.	0.5	3
29	Determination of Isoxaflutole (Balance) and Its Metabolites in Water Using Solid Phase Extraction Followed by High-Performance Liquid Chromatography with Ultraviolet or Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 5816-5824.	2.4	27
30	Atrazine remediation in wetland microcosms. <i>Environmental Toxicology and Chemistry</i> , 2001, 20, 1059-1066.	2.2	27
31	Analysis of Hydroxylated Atrazine Degradation Products in Soils. <i>International Journal of Environmental Analytical Chemistry</i> , 2001, 79, 167-183.	1.8	11
32	Atrazine remediation in wetland microcosms. <i>Environmental Toxicology and Chemistry</i> , 2001, 20, 1059-66.	2.2	1
33	Hydroxyatrazine in soils and sediments. <i>Environmental Toxicology and Chemistry</i> , 1999, 18, 2161-2168.	2.2	33
34	Mixed-Mode Sorption of Hydroxylated Atrazine Degradation Products to Soil: A Mechanism for Bound Residue. <i>Environmental Science &amp; Technology</i> , 1997, 31, 1539-1546.	4.6	73
35	Hydroxylated Atrazine Degradation Products in a Small Missouri Stream. <i>ACS Symposium Series</i> , 1996, , 254-270.	0.5	5
36	Hydroxylated Atrazine Degradation Products in a Small Missouri Stream. <i>Environmental Science &amp; Technology</i> , 1995, 29, 2759-2768.	4.6	77

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37	Analysis of Hydroxylated Atrazine Degradation Products in Water Using Solid-Phase Extraction and High-Performance Liquid Chromatography. <i>Journal of Agricultural and Food Chemistry</i> , 1994, 42, 922-927.	2.4	49