Robert N Lerch

List of Publications by Year
in descending order

37 papers	946 citations	430874 18 h-index	454955 30 g-index
37 all docs	37 docs citations	37 times ranked	1153 citing authors

#	Article	IF	Citations
1	Imidacloprid Sorption and Transport in Cropland, Grass Buffer, and Riparian Buffer Soils. Vadose Zone Journal, 2018, 17, 1-12.	2.2	108
2	Hydroxylated Atrazine Degradation Products in a Small Missouri Stream. Environmental Science & Technology, 1995, 29, 2759-2768.	10.0	77
3	Mixed-Mode Sorption of Hydroxylated Atrazine Degradation Products to Soil:Â A Mechanism for Bound Residue. Environmental Science & Technology, 1997, 31, 1539-1546.	10.0	73
4	Watershed Vulnerability To Herbicide Transport in Northern Missouri and Southern Iowa Streams. Environmental Science & Technology, 2003, 37, 5518-5527.	10.0	72
5	Reducing Herbicides and Veterinary Antibiotics Losses from Agroecosystems Using Vegetative Buffers. Journal of Environmental Quality, 2011, 40, 791-799.	2.0	57
6	Analysis of Hydroxylated Atrazine Degradation Products in Water Using Solid-Phase Extraction and High-Performance Liquid Chromatography. Journal of Agricultural and Food Chemistry, 1994, 42, 922-927.	5.2	49
7	Mechanisms of Bond Cleavage during Manganese Oxide and UV Degradation of Glyphosate: Results from Phosphate Oxygen Isotopes and Molecular Simulations. Journal of Agricultural and Food Chemistry, 2016, 64, 8474-8482.	5.2	46
8	Dicamba Losses to Air after Applications to Soybean under Stable and Nonstable Atmospheric Conditions. Journal of Environmental Quality, 2019, 48, 1675-1682.	2.0	40
9	Sulfamethazine Sorption to Soil: Vegetative Management, pH, and Dissolved Organic Matter Effects. Journal of Environmental Quality, 2013, 42, 794-805.	2.0	38
10	Long-Term Agroecosystem Research in the Central Mississippi River Basin: Introduction, Establishment, and Overview. Journal of Environmental Quality, 2015, 44, 3-12.	2.0	35
11	Hydroxyatrazine in soils and sediments. Environmental Toxicology and Chemistry, 1999, 18, 2161-2168.	4.3	33
12	Influence of watershed system management on herbicide concentrations in Mississippi Delta oxbow lakes. Science of the Total Environment, 2006, 370, 552-560.	8.0	32
13	Stimulated Rhizodegradation of Atrazine by Selected Plant Species. Journal of Environmental Quality, 2011, 40, 1113-1121.	2.0	30
14	Dissipation of Sulfamethazine and Tetracycline in the Root Zone of Grass and Tree Species. Journal of Environmental Quality, 2010, 39, 1269-1278.	2.0	28
15	Atrazine remediation in wetland microcosms. Environmental Toxicology and Chemistry, 2001, 20, 1059-1066.	4.3	27
16	Determination of Isoxaflutole (Balance) and Its Metabolites in Water Using Solid Phase Extraction Followed by High-Performance Liquid Chromatography with Ultraviolet or Mass Spectrometry. Journal of Agricultural and Food Chemistry, 2002, 50, 5816-5824.	5.2	27
17	Degradation of Isoxaflutole (Balance) Herbicide by Hypochlorite in Tap Water. Journal of Agricultural and Food Chemistry, 2003, 51, 8011-8014.	5.2	23
18	Improved GCâ€MS/MS Method for Determination of Atrazine and Its Chlorinated Metabolites in Forage Plantsâ€"Laboratory and Field Experiments. Communications in Soil Science and Plant Analysis, 2007, 38, 1753-1773.	1.4	19

#	Article	IF	Citations
19	Long-Term Agroecosystem Research in the Central Mississippi River Basin: Hyperspectral Remote Sensing of Reservoir Water Quality. Journal of Environmental Quality, 2015, 44, 71-83.	2.0	16
20	Veterinary Antibiotic Effects on Atrazine Degradation and Soil Microorganisms. Journal of Environmental Quality, 2016, 45, 565-575.	2.0	13
21	Drivers of Hot Spots and Hot Moments of Denitrification in Agricultural Systems. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006234.	3.0	12
22	Analysis of Hydroxylated Atrazine Degradation Products in Soils. International Journal of Environmental Analytical Chemistry, 2001, 79, 167-183.	3.3	11
23	Longâ€term suspended sediment transport in the Goodwater Creek Experimental Watershed and Salt River Basin, Missouri, USA. Water Resources Research, 2013, 49, 7827-7830.	4.2	11
24	Reaction Pathways of the Diketonitrile Degradate of Isoxaflutole with Hypochlorite in Water. Journal of Agricultural and Food Chemistry, 2007, 55, 1893-1899.	5.2	10
25	Identification of an Atrazine-Degrading Benzoxazinoid in Eastern Gamagrass (Tripsacum dactyloides). Journal of Agricultural and Food Chemistry, 2013, 61, 8026-8033.	5.2	8
26	Long-Term Agroecosystem Research in the Central Mississippi River Basin: Hydrogeologic Controls and Crop Management Influence on Nitrates in Loess and Fractured Glacial Till. Journal of Environmental Quality, 2015, 44, 58-70.	2.0	8
27	Electroantennographic Responses of the Small Chestnut WeevilCurculio sayi(Coleoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Environmental Entomology, 2012, 41, 933-940.	1.4	7
28	Clothianidin decomposition in Missouri wetland soils. Journal of Environmental Quality, 2021, 50, 241-251.	2.0	6
29	Hydroxylated Atrazine Degradation Products in a Small Missouri Stream. ACS Symposium Series, 1996, , 254-270.	0.5	5
30	Controls on nitrateâ€N concentrations in groundwater in a Missourian claypan watershed. Earth and Space Science, 2016, 3, 90-105.	2.6	5
31	Determining Hydrologic Pathways of Streamflow Using Geochemical Tracers in a Claypan Watershed. Hydrological Processes, 2020, 34, 2494.	2.6	5
32	Evaluation of PCRâ€based Quantification Techniques to Estimate the Abundance of Atrazine Chlorohydrolase Gene atzA in Rhizosphere Soils. Journal of Environmental Quality, 2010, 39, 1999-2005.	2.0	4
33	Adsorption of Isoxaflutole Degradates to Aluminum and Iron Hydrous Oxides. Journal of Environmental Quality, 2011, 40, 528-537.	2.0	4
34	Identification of Trifluralin Metabolites in Soil Using Ion-Trap LC/MS/MS. ACS Symposium Series, 2003, , 291-310.	0.5	3
35	Dynamics of Herbicide Concentrations in Mississippi Delta Oxbow Lakes and the Role of Planktonic Microorganisms in Herbicide Metabolism. ACS Symposium Series, 2004, , 134-149.	0.5	3
36	ATRAZINE REMEDIATION IN WETLAND MICROCOSMS. Environmental Toxicology and Chemistry, 2001, 20, 1059.	4.3	1

#	Article	IF	Citations
37	Estimating simazineâ€treated area in watersheds based on annual stream loads. Journal of Environmental Quality, 2021, 50, 1184-1195.	2.0	0