John H Loughrin

List of Publications by Year
in descending order

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81 papers	4,689 citations	159525 30 h-index	95218 68 g-index
82 all docs	82 docs citations	82 times ranked	3416 citing authors

#	Article	IF	Citations
1	Improving Anaerobic Digestion of Brewery and Distillery Spent Grains through Aeration across a Silicone Membrane. Sustainability, 2022, 14, 2755.	1.6	3
2	Lagoon, Anaerobic Digestion, and Composting of Animal Manure Treatments Impact on Tetracycline Resistance Genes. Antibiotics, 2022, 11, 391.	1.5	19
3	Anaerobic digestion of livestock and poultry manures spiked with tetracycline antibiotics. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2020, 55, 135-147.	0.7	25
4	Evaluation of Microaeration and Sound to Increase Biogas Production from Poultry Litter. Environments - MDPI, 2020, 7, 62.	1.5	6
5	Anaerobic Digestion of Tetracycline Spiked Livestock Manure and Poultry Litter Increased the Abundances of Antibiotic and Heavy Metal Resistance Genes. Frontiers in Microbiology, 2020, 11, 614424.	1.5	16
6	In Situ Sonification of Anaerobic Digestion: Extended Evaluation of Performance in a Temperate Climate. Energies, 2020, 13, 5349.	1.6	1
7	In Situ Acoustic Treatment of Anaerobic Digesters to Improve Biogas Yields. Environments - MDPI, 2020, 7, 11.	1.5	6
8	Aeration to Improve Biogas Production by Recalcitrant Feedstock. Environments - MDPI, 2019, 6, 44.	1.5	10
9	Sound enhances wastewater degradation and improves anaerobic digester performance. SN Applied Sciences, 2019, 1, 1.	1.5	4
10	Abundances of Tetracycline Resistance Genes and Tetracycline Antibiotics during Anaerobic Digestion of Swine Waste. Journal of Environmental Quality, 2019, 48, 171-178.	1.0	28
11	Improved water quality and reduction of odorous compounds in anaerobic lagoon columns receiving pre-treated pig wastewater. Environmental Technology (United Kingdom), 2018, 39, 2613-2621.	1.2	3
12	High-Rate Solid-Liquid Separation Coupled With Nitrogen and Phosphorus Treatment of Swine Manure: Effect on Water Quality. Frontiers in Sustainable Food Systems, 2018, 2, .	1.8	15
13	High-Rate Solid-Liquid Separation Coupled With Nitrogen and Phosphorous Treatment of Swine Manure: Effect on Ammonia Emission. Frontiers in Sustainable Food Systems, 2018, 2, .	1.8	1
14	<i>Enzymatic pre-treatment of high content cellulosic feedstock improves biogas production</i>. , 2018, , .		1
15	A Gas Chromatographic Method for the Determination of Bicarbonate and Dissolved Gases. Frontiers in Environmental Science, 2017, 5, .	1.5	7
16	The effect of aged litter materials on polyatomic ion concentrations in fractionated suspended particulate matter from a broiler house. Journal of the Air and Waste Management Association, 2016, 66, 707-714.	0.9	3
17	Effect of turning frequency and season on composting materials from swine high-rise facilities. Waste Management, 2015, 39, 86-95.	3.7	28
18	Improvement of Anaerobic Digester Performance by Wastewater Recirculation through an Aerated Membrane. Transactions of the ASABE, 2013, , 1675-1681.	1.1	3

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19	Seasonal Variation in Heat Fluxes, Predicted Emissions of Malodorants, and Wastewater Quality of an Anaerobic Swine Waste Lagoon. Water, Air, and Soil Pollution, 2012, 223, 3611-3618.	1.1	6
20	Recirculating Swine Waste through a Silicone Membrane in an Aerobic Chamber Improves Biogas Quality and Wastewater Malodors. Transactions of the ASABE, 2012, 55, 1929-1937.	1.1	4
21	Heat Flux Measurements and Modeling of Malodorous Compounds above an Anaerobic Swine Lagoon. Water, Air, and Soil Pollution, 2011, 217, 463-471.	1.1	7
22	Spatial and temporal changes in the microbial community in an anaerobic swine waste treatment lagoon. Anaerobe, 2010, 16, 74-82.	1.0	42
23	Reduction of Malodors from Swine Lagoons through Influent Pre-treatment. , 2010, , .		0
24	A Simple Device for the Collection of Water and Dissolved Gases at Defined Depths. Applied Engineering in Agriculture, 2010, 26, 559-564.	0.3	2
25	Evaluation of Secondâ€Generation Multistage Wastewater Treatment System for the Removal of Malodors from Liquid Swine Waste. Journal of Environmental Quality, 2009, 38, 1739-1748.	1.0	11
26	A System for Estimating Bowen Ratio and Evaporation from Waste Lagoons. Applied Engineering in Agriculture, 2009, 25, 923-932.	0.3	3
27	Simulation of boundary layer trajectory dispersion sensitivity to soil moisture conditions: MM5 and Noah-based investigation. Atmospheric Environment, 2009, 43, 3774-3785.	1.9	16
28	Fe(III) stimulates 3-methylindole and 4-methylphenol production in swine lagoon enrichments and<i>Clostridium scatologenes</i>ATCC 25775. Letters in Applied Microbiology, 2009, 48, 118-124.	1.0	6
29	The effect of stratification and seasonal variability on the profile of an anaerobic swine waste treatment lagoon. Bioresource Technology, 2009, 100, 3706-3712.	4.8	32
30	Development of a second-generation environmentally superior technology for treatment of swine manure in the USA. Bioresource Technology, 2009, 100, 5406-5416.	4.8	85
31	A Coupled MM5-NOAH Land Surface Model-based Assessment of Sensitivity of Planetary Boundary Layer Variables to Anomalous Soil Moisture Conditions. Physical Geography, 2008, 29, 54-78.	0.6	21
32	Equilibrium Sampling Used to Monitor Malodors in a Swine Waste Lagoon. Journal of Environmental Quality, 2008, 37, 1-6.	1.0	27
33	Sampling of Malodorous Compounds in Air Using Stir Bar Sorbtive Extraction. Transactions of the ASABE, 2008, 51, 1747-1752.	1.1	1
34	In Situ Measurements of Malodors of a Swine Waste Lagoon. , 2007, , .		0
35	Characterization of skatole-producing microbial populations in enriched swine lagoon slurry. FEMS Microbiology Ecology, 2007, 60, 329-340.	1.3	25
36	Comparison of Solid-Phase Microextraction and Stir Bar Sorptive Extraction for the Quantification of Malodors in Wastewater. Journal of Agricultural and Food Chemistry, 2006, 54, 3237-3241.	2.4	38

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37	Reduction of Malodorous Compounds from Liquid Swine Manure by a Multi-Stage Treatment System. Applied Engineering in Agriculture, 2006, 22, 867-873.	0.3	17
38	Reduction of Malodorous Compounds from a Treated Swine Anaerobic Lagoon. Journal of Environmental Quality, 2006, 35, 194-199.	1.0	30
39	AN EQUILIBRIUM SAMPLER FOR MALODORS IN WASTEWATER. Transactions of the ASABE, 2006, 49, 1167-1172.	1.1	3
40	Free Fatty Acids and Sterols in Swine Manure. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2006, 41, 31-42.	0.7	9
41	Butterbean Seed Yield, Color, and Protein Content Are Affected by Photomorphogenesis. Crop Science, 2004, 44, 2123-2126.	0.8	8
42	Morphogenic Light Reflected to Developing Cotton Leaves Affects Insectâ€Attracting Terpene Concentrations. Crop Science, 2004, 44, 198-203.	0.8	5
43	Aroma Content of Fresh Basil (Ocimum basilicumL.) Leaves Is Affected by Light Reflected from Colored Mulches. Journal of Agricultural and Food Chemistry, 2003, 51, 2272-2276.	2.4	39
44	Aroma of Fresh Strawberries Is Enhanced by Ripening over Red versus Black Mulch. Journal of Agricultural and Food Chemistry, 2002, 50, 161-165.	2.4	38
45	Light Reflected from Colored Mulches Affects Aroma and Phenol Content of Sweet Basil (Ocimum) Tj ETQq1 1 0.784314 rgBT /Overlock	2.4	85
46	Light Reflected from Red Mulch to Ripening Strawberries Affects Aroma, Sugar and Organic Acid ConcentrationsÂ¶. Photochemistry and Photobiology, 2001, 74, 103.	1.3	36
47	Suppression of a P450 hydroxylase gene in plant trichome glands enhances natural-product-based aphid resistance. Nature Biotechnology, 2001, 19, 371-374.	9.4	194
48	Light Reflected from Red Mulch to Ripening Strawberries Affects Aroma, Sugar and Organic Acid ConcentrationsÂ¶. Photochemistry and Photobiology, 2001, 74, 103-107.	1.3	6
49	Title is missing!. Journal of Chemical Ecology, 2000, 26, 189-202.	0.9	139
50	Attraction of Japanese Beetles (Coleoptera: Scarabaeidae) to Host Plant Volatiles in Field Trapping Experiments. Environmental Entomology, 1998, 27, 395-400.	0.7	30
51	Response of Japanese Beetles (Coleoptera: Scarabaeidae) to Leaf Volatiles of Susceptible and Resistant Maple Species. Environmental Entomology, 1997, 26, 334-342.	0.7	32
52	An Elicitor of Plant Volatiles from Beet Armyworm Oral Secretion. Science, 1997, 276, 945-949.	6.0	872
53	Heat Treatment Temporarily Inhibits Aroma Volatile Compound Emission from Golden Delicious Apples. Journal of Agricultural and Food Chemistry, 1997, 45, 4038-4041.	2.4	52
54	Diurnal emission of volatile compounds by Japanese beetle-damaged grape leaves. Phytochemistry, 1997, 45, 919-923.	1.4	44

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55	Metabolism of Natural Volatile Compounds by Strawberry Fruit. Journal of Agricultural and Food Chemistry, 1996, 44, 2802-2805.	2.4	47
56	Volatile compounds from crabapple (Malus spp.) cultivars differing in susceptibility to the Japanese beetle (Popillia japonica Newman). Journal of Chemical Ecology, 1996, 22, 1295-1305.	0.9	33
57	Why do Japanese beetles defoliate trees from the top down?. Entomologia Experimentalis Et Applicata, 1996, 80, 209-212.	0.7	8
58	Role of Feedingâ€"Induced Plant Volatiles in Aggregative Behavior of the Japanese Beetle (Coleoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.7	102
59	Why do Japanese beetles defoliate trees from the top down?. , 1996, , 209-212.		0
60	How caterpillar-damaged plants protect themselves by attracting parasitic wasps.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 4169-4174.	3.3	645
61	The chemistry of eavesdropping, alarm, and deceit.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 23-28.	3.3	150
62	Volatiles emitted by different cotton varieties damaged by feeding beet armyworm larvae. Journal of Chemical Ecology, 1995, 21, 1217-1227.	0.9	258
63	Volatile compounds induced by herbivory act as aggregation kairomones for the Japanese beetle (Popillia japonica Newman). Journal of Chemical Ecology, 1995, 21, 1457-1467.	0.9	147
64	Herbivore-induced volatile emissions from cotton (Gossypium hirsutum L.) seedlings. Journal of Chemical Ecology, 1994, 20, 3039-3050.	0.9	146
65	Diurnal cycle of emission of induced volatile terpenoids by herbivore-injured cotton plant.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 11836-11840.	3.3	357
66	Effect of diurnal sampling on the headspace composition of detached Nicotiana suaveolens flowers. Phytochemistry, 1993, 32, 1417-1419.	1.4	20
67	Effects of some natural volatile compounds on the pathogenic fungiAlternaria alternata andBotrytis cinerea. Journal of Chemical Ecology, 1992, 18, 1083-1091.	0.9	128
68	Glycosidically bound volatile components of Nicotiana sylvestris and N. Suaveolens flowers. Phytochemistry, 1992, 31, 1537-1540.	1.4	52
69	Plant Volatiles Inhibit Pollen Germination of Apple and Other Species. Hortscience: A Publication of the American Society for Hortcultural Science, 1992, 27, 267.	0.5	1
70	Inhibition of pollen germination by volatile compounds including 2-hexenal and 3-hexenal. Journal of Agricultural and Food Chemistry, 1991, 39, 952-956.	2.4	21
71	Circadian rhythm of volatile emission from flowers of Nicotiana sylvestris and N. suaveolens. Physiologia Plantarum, 1991, 83, 492-496.	2.6	74
72	Circadian rhythm of volatile emission from flowers of Nicotiana sylvestris and N. suaveolens. Physiologia Plantarum, 1991, 83, 492-496.	2.6	16

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73	Volatiles from flowers of Nicotiana sylvestris, N. otophora and Malus Ã— domestica: headspace components and day/night changes in their relative concentrations. Phytochemistry, 1990, 29, 2473-2477.	1.4	106
74	Identification of some volatile compounds from strawberry flowers. Phytochemistry, 1990, 29, 2847-2848.	1.4	20
75	Headspace compounds from flowers of Nicotiana tabacum and related species. Journal of Agricultural and Food Chemistry, 1990, 38, 455-460.	2.4	92
76	Lipoxygenase 3 reduces hexanal production from soybean seed homogenates. Journal of Agricultural and Food Chemistry, 1990, 38, 1934-1936.	2.4	30
77	Strawberry resistance toTetranychus urticae Koch: Effects of flower, fruit, and foliage removal?comparisons of air- vs. nitrogen-entrained volatile compounds. Journal of Chemical Ecology, 1989, 15, 1465-1473.	0.9	19
78	Strawberry foliage headspace vapor components at periods of susceptibility and resistance toTetranychus urticae Koch. Journal of Chemical Ecology, 1988, 14, 789-796.	0.9	38
79	Green leaf headspace volatiles from Nicotiana tabacum lines of different trichome morphology. Journal of Agricultural and Food Chemistry, 1988, 36, 295-299.	2.4	29
80	Effects of lipoxygenase inhibitors on the formation of volatile compounds in wheat. Phytochemistry, 1987, 26, 1273-1277.	1.4	6
81	A model-based exploratory study of sulfur dioxide dispersions from concentrated animal feeding operations in the Southeastern United States. Physical Geography, 0, , 1-31.	0.6	0