

John H Loughrin

List of Publications by Year in descending order

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82
papers

4,689
citations

159585

30
h-index

95266

68
g-index

82
all docs

82
docs citations

82
times ranked

3416
citing authors

#	ARTICLE	IF	CITATIONS
1	An Elicitor of Plant Volatiles from Beet Armyworm Oral Secretion. <i>Science</i> , 1997, 276, 945-949.	12.6	872
2	How caterpillar-damaged plants protect themselves by attracting parasitic wasps.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 4169-4174.	7.1	645
3	Diurnal cycle of emission of induced volatile terpenoids by herbivore-injured cotton plant.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 11836-11840.	7.1	357
4	Volatiles emitted by different cotton varieties damaged by feeding beet armyworm larvae. <i>Journal of Chemical Ecology</i> , 1995, 21, 1217-1227.	1.8	258
5	Suppression of a P450 hydroxylase gene in plant trichome glands enhances natural-product-based aphid resistance. <i>Nature Biotechnology</i> , 2001, 19, 371-374.	17.5	194
6	The chemistry of eavesdropping, alarm, and deceit.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 23-28.	7.1	150
7	Volatile compounds induced by herbivory act as aggregation kairomones for the Japanese beetle (<i>Popillia japonica</i> Newman). <i>Journal of Chemical Ecology</i> , 1995, 21, 1457-1467.	1.8	147
8	Herbivore-induced volatile emissions from cotton (<i>Gossypium hirsutum</i> L.) seedlings. <i>Journal of Chemical Ecology</i> , 1994, 20, 3039-3050.	1.8	146
9	Title is missing!. <i>Journal of Chemical Ecology</i> , 2000, 26, 189-202.	1.8	139
10	Effects of some natural volatile compounds on the pathogenic fungi <i>Alternaria alternata</i> and <i>Botrytis cinerea</i> . <i>Journal of Chemical Ecology</i> , 1992, 18, 1083-1091.	1.8	128
11	Volatiles from flowers of <i>Nicotiana sylvestris</i> , <i>N. otophora</i> and <i>Malus Æ— domestica</i> : headspace components and day/night changes in their relative concentrations. <i>Phytochemistry</i> , 1990, 29, 2473-2477.	2.9	106
12	Role of Feeding-Induced Plant Volatiles in Aggregative Behavior of the Japanese Beetle (Coleoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.45	102
13	Headspace compounds from flowers of <i>Nicotiana tabacum</i> and related species. <i>Journal of Agricultural and Food Chemistry</i> , 1990, 38, 455-460.	5.2	92
14	Light Reflected from Colored Mulches Affects Aroma and Phenol Content of Sweet Basil (<i>Ocimum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.2	85
15	Development of a second-generation environmentally superior technology for treatment of swine manure in the USA. <i>Bioresource Technology</i> , 2009, 100, 5406-5416.	9.6	85
16	Circadian rhythm of volatile emission from flowers of <i>Nicotiana sylvestris</i> and <i>N. suaveolens</i> . <i>Physiologia Plantarum</i> , 1991, 83, 492-496.	5.2	74
17	Glycosidically bound volatile components of <i>Nicotiana sylvestris</i> and <i>N. Suaveolens</i> flowers. <i>Phytochemistry</i> , 1992, 31, 1537-1540.	2.9	52
18	Heat Treatment Temporarily Inhibits Aroma Volatile Compound Emission from Golden Delicious Apples. <i>Journal of Agricultural and Food Chemistry</i> , 1997, 45, 4038-4041.	5.2	52

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19	Metabolism of Natural Volatile Compounds by Strawberry Fruit. <i>Journal of Agricultural and Food Chemistry</i> , 1996, 44, 2802-2805.	5.2	47
20	Diurnal emission of volatile compounds by Japanese beetle-damaged grape leaves. <i>Phytochemistry</i> , 1997, 45, 919-923.	2.9	44
21	Spatial and temporal changes in the microbial community in an anaerobic swine waste treatment lagoon. <i>Anaerobe</i> , 2010, 16, 74-82.	2.1	42
22	Aroma Content of Fresh Basil (<i>Ocimum basilicum</i> L.) Leaves Is Affected by Light Reflected from Colored Mulches. <i>Journal of Agricultural and Food Chemistry</i> , 2003, 51, 2272-2276.	5.2	39
23	Strawberry foliage headspace vapor components at periods of susceptibility and resistance to <i>Tetranychus urticae</i> Koch. <i>Journal of Chemical Ecology</i> , 1988, 14, 789-796.	1.8	38
24	Aroma of Fresh Strawberries Is Enhanced by Ripening over Red versus Black Mulch. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 161-165.	5.2	38
25	Comparison of Solid-Phase Microextraction and Stir Bar Sorptive Extraction for the Quantification of Malodors in Wastewater. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 3237-3241.	5.2	38
26	Light Reflected from Red Mulch to Ripening Strawberries Affects Aroma, Sugar and Organic Acid Concentrations. <i>Photochemistry and Photobiology</i> , 2001, 74, 103.	2.5	36
27	Volatile compounds from crabapple (<i>Malus</i> spp.) cultivars differing in susceptibility to the Japanese beetle (<i>Popillia japonica</i> Newman). <i>Journal of Chemical Ecology</i> , 1996, 22, 1295-1305.	1.8	33
28	Response of Japanese Beetles (Coleoptera: Scarabaeidae) to Leaf Volatiles of Susceptible and Resistant Maple Species. <i>Environmental Entomology</i> , 1997, 26, 334-342.	1.4	32
29	The effect of stratification and seasonal variability on the profile of an anaerobic swine waste treatment lagoon. <i>Bioresource Technology</i> , 2009, 100, 3706-3712.	9.6	32
30	Lipoxygenase 3 reduces hexanal production from soybean seed homogenates. <i>Journal of Agricultural and Food Chemistry</i> , 1990, 38, 1934-1936.	5.2	30
31	Attraction of Japanese Beetles (Coleoptera: Scarabaeidae) to Host Plant Volatiles in Field Trapping Experiments. <i>Environmental Entomology</i> , 1998, 27, 395-400.	1.4	30
32	Reduction of Malodorous Compounds from a Treated Swine Anaerobic Lagoon. <i>Journal of Environmental Quality</i> , 2006, 35, 194-199.	2.0	30
33	Green leaf headspace volatiles from <i>Nicotiana tabacum</i> lines of different trichome morphology. <i>Journal of Agricultural and Food Chemistry</i> , 1988, 36, 295-299.	5.2	29
34	Effect of turning frequency and season on composting materials from swine high-rise facilities. <i>Waste Management</i> , 2015, 39, 86-95.	7.4	28
35	Abundances of Tetracycline Resistance Genes and Tetracycline Antibiotics during Anaerobic Digestion of Swine Waste. <i>Journal of Environmental Quality</i> , 2019, 48, 171-178.	2.0	28
36	Equilibrium Sampling Used to Monitor Malodors in a Swine Waste Lagoon. <i>Journal of Environmental Quality</i> , 2008, 37, 1-6.	2.0	27

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37	Characterization of skatole-producing microbial populations in enriched swine lagoon slurry. <i>FEMS Microbiology Ecology</i> , 2007, 60, 329-340.	2.7	25
38	Anaerobic digestion of livestock and poultry manures spiked with tetracycline antibiotics. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2020, 55, 135-147.	1.5	25
39	Inhibition of pollen germination by volatile compounds including 2-hexenal and 3-hexenal. <i>Journal of Agricultural and Food Chemistry</i> , 1991, 39, 952-956.	5.2	21
40	A Coupled MM5-NOAH Land Surface Model-based Assessment of Sensitivity of Planetary Boundary Layer Variables to Anomalous Soil Moisture Conditions. <i>Physical Geography</i> , 2008, 29, 54-78.	1.4	21
41	Identification of some volatile compounds from strawberry flowers. <i>Phytochemistry</i> , 1990, 29, 2847-2848.	2.9	20
42	Effect of diurnal sampling on the headspace composition of detached <i>Nicotiana suaveolens</i> flowers. <i>Phytochemistry</i> , 1993, 32, 1417-1419.	2.9	20
43	Strawberry resistance to <i>Tetranychus urticae</i> Koch: Effects of flower, fruit, and foliage removal? comparisons of air- vs. nitrogen-entrained volatile compounds. <i>Journal of Chemical Ecology</i> , 1989, 15, 1465-1473.	1.8	19
44	Lagoon, Anaerobic Digestion, and Composting of Animal Manure Treatments Impact on Tetracycline Resistance Genes. <i>Antibiotics</i> , 2022, 11, 391.	3.7	19
45	Reduction of Malodorous Compounds from Liquid Swine Manure by a Multi-Stage Treatment System. <i>Applied Engineering in Agriculture</i> , 2006, 22, 867-873.	0.7	17
46	Simulation of boundary layer trajectory dispersion sensitivity to soil moisture conditions: MM5 and Noah-based investigation. <i>Atmospheric Environment</i> , 2009, 43, 3774-3785.	4.1	16
47	Anaerobic Digestion of Tetracycline Spiked Livestock Manure and Poultry Litter Increased the Abundances of Antibiotic and Heavy Metal Resistance Genes. <i>Frontiers in Microbiology</i> , 2020, 11, 614424.	3.5	16
48	Circadian rhythm of volatile emission from flowers of <i>Nicotiana sylvestris</i> and <i>N. suaveolens</i> . <i>Physiologia Plantarum</i> , 1991, 83, 492-496.	5.2	16
49	High-Rate Solid-Liquid Separation Coupled With Nitrogen and Phosphorus Treatment of Swine Manure: Effect on Water Quality. <i>Frontiers in Sustainable Food Systems</i> , 2018, 2, .	3.9	15
50	Evaluation of Second-Generation Multistage Wastewater Treatment System for the Removal of Malodors from Liquid Swine Waste. <i>Journal of Environmental Quality</i> , 2009, 38, 1739-1748.	2.0	11
51	Aeration to Improve Biogas Production by Recalcitrant Feedstock. <i>Environments - MDPI</i> , 2019, 6, 44.	3.3	10
52	Free Fatty Acids and Sterols in Swine Manure. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2006, 41, 31-42.	1.5	9
53	Why do Japanese beetles defoliate trees from the top down?. <i>Entomologia Experimentalis Et Applicata</i> , 1996, 80, 209-212.	1.4	8
54	Butterbean Seed Yield, Color, and Protein Content Are Affected by Photomorphogenesis. <i>Crop Science</i> , 2004, 44, 2123-2126.	1.8	8

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55	Heat Flux Measurements and Modeling of Malodorous Compounds above an Anaerobic Swine Lagoon. Water, Air, and Soil Pollution, 2011, 217, 463-471.	2.4	7
56	A Gas Chromatographic Method for the Determination of Bicarbonate and Dissolved Gases. Frontiers in Environmental Science, 2017, 5, .	3.3	7
57	Effects of lipoxygenase inhibitors on the formation of volatile compounds in wheat. Phytochemistry, 1987, 26, 1273-1277.	2.9	6
58	Light Reflected from Red Mulch to Ripening Strawberries Affects Aroma, Sugar and Organic Acid Concentrations. Photochemistry and Photobiology, 2001, 74, 103-107.	2.5	6
59	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.	2.2	6
60	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.	2.4	6
61	Evaluation of Microaeration and Sound to Increase Biogas Production from Poultry Litter. Environments - MDPI, 2020, 7, 62.	3.3	6
62	In Situ Acoustic Treatment of Anaerobic Digesters to Improve Biogas Yields. Environments - MDPI, 2020, 7, 11.	3.3	6
63	Morphogenic Light Reflected to Developing Cotton Leaves Affects Insect-Attracting Terpene Concentrations. Crop Science, 2004, 44, 198-203.	1.8	5
64	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
65	Sound enhances wastewater degradation and improves anaerobic digester performance. SN Applied Sciences, 2019, 1, 1.	2.9	4
66	AN EQUILIBRIUM SAMPLER FOR MALODORS IN WASTEWATER. Transactions of the ASABE, 2006, 49, 1167-1172.	1.1	3
67	A System for Estimating Bowen Ratio and Evaporation from Waste Lagoons. Applied Engineering in Agriculture, 2009, 25, 923-932.	0.7	3
68	Improvement of Anaerobic Digester Performance by Wastewater Recirculation through an Aerated Membrane. Transactions of the ASABE, 2013, , 1675-1681.	1.1	3
69	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.	1.9	3
70	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.	2.2	3
71	Improving Anaerobic Digestion of Brewery and Distillery Spent Grains through Aeration across a Silicone Membrane. Sustainability, 2022, 14, 2755.	3.2	3
72	A Simple Device for the Collection of Water and Dissolved Gases at Defined Depths. Applied Engineering in Agriculture, 2010, 26, 559-564.	0.7	2

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73	Sampling of Malodorous Compounds in Air Using Stir Bar Sorptive Extraction. Transactions of the ASABE, 2008, 51, 1747-1752.	1.1	1
74	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, .	3.9	1
75	<i>Enzymatic pre-treatment of high content cellulosic feedstock improves biogas production</i>. , 2018, , .		1
76	In Situ Sonification of Anaerobic Digestion: Extended Evaluation of Performance in a Temperate Climate. Energies, 2020, 13, 5349.	3.1	1
77	Plant Volatiles Inhibit Pollen Germination of Apple and Other Species. Hortscience: A Publication of the American Society for Horticultural Science, 1992, 27, 267.	1.0	1
78	In Situ Measurements of Malodors of a Swine Waste Lagoon. , 2007, , .		0
79	Reduction of Malodors from Swine Lagoons through Influent Pre-treatment. , 2010, , .		0
80	Estimating Greenhouse Gas Emissions from a Waste Lagoon. Applied Engineering in Agriculture, 2013, , .	0.7	0
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.	1.4	0
82	Why do Japanese beetles defoliate trees from the top down?. , 1996, , 209-212.		0