

# Frank M Mitloehner

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

1,814  
citations

257450

24  
h-index

276875

41  
g-index

66  
all docs

66  
docs citations

66  
times ranked

2233  
citing authors

#	ARTICLE	IF	CITATIONS
1	Manure-DNDC: a biogeochemical process model for quantifying greenhouse gas and ammonia emissions from livestock manure systems. <i>Nutrient Cycling in Agroecosystems</i> , 2012, 93, 163-200.	2.2	195
2	Volatile Organic Compound Emissions from Dairy Cows and Their Waste as Measured by Proton-Transfer-Reaction Mass Spectrometry. <i>Environmental Science &amp; Technology</i> , 2007, 41, 1310-1316.	10.0	119
3	Clearing the Air. <i>Advances in Agronomy</i> , 2009, 103, 1-40.	5.2	108
4	Shade effects on performance, carcass traits, physiology, and behavior of heat-stressed feedlot heifers. <i>Journal of Animal Science</i> , 2002, 80, 2043.	0.5	100
5	Emission of volatile organic compounds from silage: Compounds, sources, and implications. <i>Atmospheric Environment</i> , 2013, 77, 827-839.	4.1	67
6	Alcohol, Volatile Fatty Acid, Phenol, and Methane Emissions from Dairy Cows and Fresh Manure. <i>Journal of Environmental Quality</i> , 2008, 37, 615-622.	2.0	64
7	Worker Health and Safety in Concentrated Animal Feeding Operations. <i>Journal of Agricultural Safety and Health</i> , 2008, 14, 163-187.	0.4	63
8	Reactive Organic Gas Emissions from Livestock Feed Contribute Significantly to Ozone Production in Central California. <i>Environmental Science &amp; Technology</i> , 2010, 44, 2309-2314.	10.0	60
9	Lung antioxidant and cytokine responses to coarse and fine particulate matter from the great California wildfires of 2008. <i>Inhalation Toxicology</i> , 2010, 22, 561-570.	1.6	60
10	Agricultural ammonia sensor using diode lasers and photoacoustic spectroscopy. <i>Measurement Science and Technology</i> , 2005, 16, 1547-1553.	2.6	59
11	Volatile organic compound emissions from green waste composting: Characterization and ozone formation. <i>Atmospheric Environment</i> , 2011, 45, 1841-1848.	4.1	56
12	Bacterial Population Dynamics in Dairy Waste during Aerobic and Anaerobic Treatment and Subsequent Storage. <i>Applied and Environmental Microbiology</i> , 2007, 73, 193-202.	3.1	54
13	Occupational exposure to particulate matter and endotoxin for California dairy workers. <i>International Journal of Hygiene and Environmental Health</i> , 2013, 216, 56-62.	4.3	40
14	Greenhouse Gas, Animal Performance, and Bacterial Population Structure Responses to Dietary Monensin Fed to Dairy Cows. <i>Journal of Environmental Quality</i> , 2010, 39, 106-114.	2.0	39
15	Rethinking methane from animal agriculture. <i>CABI Agriculture and Bioscience</i> , 2021, 2, .	2.4	39
16	Identification and Quantitation of Volatile Organic Compounds Emitted from Dairy Silages and Other Feedstuffs. <i>Journal of Environmental Quality</i> , 2011, 40, 28-36.	2.0	35
17	Mitigation of enteric methane emissions from global livestock systems through nutrition strategies. <i>Climatic Change</i> , 2016, 137, 467-480.	3.6	35
18	Construction and Operation of a Ventilated Hood System for Measuring Greenhouse Gas and Volatile Organic Compound Emissions from Cattle. <i>Animals</i> , 2011, 1, 433-446.	2.3	34

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19	Land-use change emissions from soybean feed embodied in Brazilian pork and poultry meat. <i>Journal of Cleaner Production</i> , 2018, 172, 2646-2654.	9.3	33
20	Estimation of the Interference in Multi-Gas Measurements Using Infrared Photoacoustic Analyzers. <i>Atmosphere</i> , 2012, 3, 246-265.	2.3	32
21	Mobile Source and Livestock Feed Contributions to Regional Ozone Formation in Central California. <i>Environmental Science &amp; Technology</i> , 2012, 46, 2781-2789.	10.0	31
22	Effects of Sodium Bisulfate on Alcohol, Amine, and Ammonia Emissions from Dairy Slurry. <i>Journal of Environmental Quality</i> , 2008, 37, 608-614.	2.0	29
23	Growth-promoting technologies decrease the carbon footprint, ammonia emissions, and costs of California beef production systems <sup>1</sup> . <i>Journal of Animal Science</i> , 2012, 90, 4656-4665.	0.5	29
24	Direct Measurements of the Ozone Formation Potential from Livestock and Poultry Waste Emissions. <i>Environmental Science &amp; Technology</i> , 2010, 44, 2292-2298.	10.0	28
25	Greenhouse Gas and Alcohol Emissions from Feedlot Steers and Calves. <i>Journal of Environmental Quality</i> , 2011, 40, 899-906.	2.0	27
26	Understanding the Intersection of Climate/Environmental Change, Health, Agriculture, and Improved Nutrition: A Case Study on Micronutrient Nutrition and Animal Source Foods. <i>Current Developments in Nutrition</i> , 2020, 4, nzaa087.	0.3	26
27	The Nexus of Environmental Quality and Livestock Welfare. <i>Annual Review of Animal Biosciences</i> , 2014, 2, 555-569.	7.4	24
28	Potassium sorbate reduces production of ethanol and 2 esters in corn silage. <i>Journal of Dairy Science</i> , 2014, 97, 7870-7878.	3.4	23
29	Particulate Matter, Endotoxin, and Worker Respiratory Health on Large Californian Dairies. <i>Journal of Occupational and Environmental Medicine</i> , 2015, 57, 79-87.	1.7	21
30	Carbon and blue water footprints of California sheep production <sup>1</sup> . <i>Journal of Animal Science</i> , 2019, 97, 945-961.	0.5	19
31	Acute Pulmonary Function Change Associated With Work on Large Dairies in California. <i>Journal of Occupational and Environmental Medicine</i> , 2013, 55, 74-79.	1.7	18
32	The Impact of Essential Oil Feed Supplementation on Enteric Gas Emissions and Production Parameters from Dairy Cattle. <i>Sustainability</i> , 2020, 12, 10347.	3.2	17
33	Effects of growth-promoting technology on feedlot cattle behavior in the 21 days before slaughter. <i>Applied Animal Behaviour Science</i> , 2015, 162, 1-8.	1.9	16
34	Wooden hutch space allowance influences male Holstein calf health, performance, daily lying time, and respiratory immunity. <i>Journal of Dairy Science</i> , 2016, 99, 4678-4692.	3.4	16
35	Effect of dietary monensin on the bacterial population structure of dairy cattle colonic contents. <i>Applied Microbiology and Biotechnology</i> , 2010, 85, 1947-1952.	3.6	15
36	Effects of biotin and nicotinamide supplementation on glucose and lipid metabolism and milk production of transition dairy cows. <i>Animal Feed Science and Technology</i> , 2018, 237, 106-117.	2.2	15

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37	Innovative cooling strategies: Dairy cow responses and water and energy use. <i>Journal of Dairy Science</i> , 2020, 103, 5440-5454.	3.4	15
38	Beef production in balance: Considerations for life cycle analyses. <i>Meat Science</i> , 2012, 92, 179-181.	5.5	14
39	Characterization of Endotoxin Collected on California Dairies Using Personal and Area-Based Sampling Methods. <i>Journal of Occupational and Environmental Hygiene</i> , 2012, 9, 580-591.	1.0	13
40	Cage Versus Noncage Laying-Hen Housings: Worker Respiratory Health. <i>Journal of Agromedicine</i> , 2015, 20, 256-264.	1.5	11
41	Cage Versus Noncage Laying-Hen Housings: Respiratory Exposures. <i>Journal of Agromedicine</i> , 2015, 20, 245-255.	1.5	11
42	Sustainability of the Dairy Industry: Emissions and Mitigation Opportunities. <i>Frontiers in Animal Science</i> , 2021, 2, .	1.9	11
43	Adaptation of Agricultural and Food Systems to a Changing Climate and Increasing Urbanization. <i>Current Sustainable/Renewable Energy Reports</i> , 2014, 1, 43-50.	2.6	10
44	Symposium review: Development of a funding program to support research on enteric methane mitigation from ruminants. <i>Journal of Dairy Science</i> , 2022, 105, 8535-8542.	3.4	10
45	Determination of Volatile Organic Compound Emissions and Ozone Formation from Spraying Solvent-based Pesticides. <i>Journal of Environmental Quality</i> , 2011, 40, 1423-1431.	2.0	9
46	Profiling of the Microbiome Associated With Nitrogen Removal During Vermifiltration of Wastewater From a Commercial Dairy. <i>Frontiers in Microbiology</i> , 2018, 9, 1964.	3.5	9
47	Effects of SOP Lagoon Additive on Gaseous Emissions from Stored Liquid Dairy Manure. <i>Sustainability</i> , 2020, 12, 1393.	3.2	8
48	A Survey of Particulate Matter on California Dairy Farms. <i>Journal of Environmental Quality</i> , 2013, 42, 40-47.	2.0	6
49	Dosage-dependent effects of monensin on the rumen microbiota of lactating dairy cattle. <i>MicrobiologyOpen</i> , 2019, 8, e783.	3.0	6
50	Aerosols in the Agricultural Setting. <i>Journal of Agromedicine</i> , 2009, 14, 413-416.	1.5	5
51	Space allowance influences individually housed Holstein male calves' age at feed consumption, standing behaviors, and measures of immune resilience before and after step-down weaning. <i>Journal of Dairy Science</i> , 2019, 102, 4506-4521.	3.4	4
52	Direct measurements improve estimates of dairy greenhouse-gas emissions. <i>California Agriculture</i> , 2009, 63, 79-83.	0.8	4
53	Mitigation of Greenhouse Gas Emissions from U.S. Beef and Dairy Production Systems. <i>ACS Symposium Series</i> , 2011, , 443-457.	0.5	3
54	Measurements of size- and time-resolved elemental concentrations at a California dairy farm. <i>Atmospheric Environment</i> , 2014, 94, 773-781.	4.1	3

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55	Manure Flushing vs. Scraping in Dairy Freestall Lanes Reduces Gaseous Emissions. Sustainability, 2021, 13, 5363.	3.2	3
56	Review of research to inform California's climate scoping plan: Agriculture and working lands. California Agriculture, 2017, 71, 160-168.	0.8	3
57	Greenhouse Gas Emission Sources from Beef and Dairy Production Systems in the United States. ACS Symposium Series, 2011, , 407-417.	0.5	2
58	Effect of SOP "STAR COW" on Enteric Gaseous Emissions and Dairy Cattle Performance. Sustainability, 2020, 12, 10250.	3.2	2
59	A life cycle assessment of the environmental impacts of cattle feedlot finishing rations. International Journal of Life Cycle Assessment, 2021, 26, 1779-1793.	4.7	2
60	Nutrient flow and distribution in conventional cage, enriched colony, and aviary layer houses. Poultry Science, 2016, 95, 213-224.	3.4	1
61	Space allowance influences individually housed Holstein bull calf innate immune measures and standing behaviors after castration at 3 weeks of age. Journal of Dairy Science, 2017, 100, 2157-2169.	3.4	1
62	Impacts and mitigation of emissions from dairy feeds on air quality. , 0, , 47-60.		1
63	Evaluating California dairy methane emission factors using short-term ground-level and airborne measurements. Atmospheric Environment: X, 2022, 14, 100171.	1.4	1
64	Impact of Feed Delivery Pattern on Aerial Particulate Matter and Behavior of Feedlot Cattle "€. Animals, 2017, 7, 14.	2.3	0
65	165 Rethinking Methane - Livestock's Path to Climate Neutrality. Journal of Animal Science, 2021, 99, 91-92.	0.5	0
66	Food-Animal Production and Global Change Implications. , 2011, , 1-16.		0