# Frank M Mitloehner

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Evaluating California dairy methane emission factors using short-term ground-level and airborne measurements. Atmospheric Environment: X, 2022, 14, 100171. | 1.4 | 1 |
| 2 | Symposium review: Development of a funding program to support research on enteric methane mitigation from ruminants. Journal of Dairy Science, 2022, 105, 8535-8542. | 3.4 | 10 |
| 3 | Manure Flushing vs. Scraping in Dairy Freestall Lanes Reduces Gaseous Emissions. Sustainability, 2021, 13, 5363. | 3.2 | 3 |
| 4 | Rethinking methane from animal agriculture. CABI Agriculture and Bioscience, 2021, 2, . | 2.4 | 39 |
| 5 | 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 |
| 6 | Sustainability of the Dairy Industry: Emissions and Mitigation Opportunities. Frontiers in Animal Science, 2021, 2, . | 1.9 | 11 |
| 7 | 165 Rethinking Methane - Livestockâ€™s Path to Climate Neutrality. Journal of Animal Science, 2021, 99, 91-92. | 0.5 | 0 |
| 8 | Understanding the Intersection of Climate/Environmental Change, Health, Agriculture, and Improved Nutrition: A Case Study on Micronutrient Nutrition and Animal Source Foods. Current Developments in Nutrition, 2020, 4, nzaa087. | 0.3 | 26 |
| 9 | The Impact of Essential Oil Feed Supplementation on Enteric Gas Emissions and Production Parameters from Dairy Cattle. Sustainability, 2020, 12, 10347. | 3.2 | 17 |
| 10 | Effect of SOP â€œSTAR COWâ€•on Enteric Gaseous Emissions and Dairy Cattle Performance. Sustainability, 2020, 12, 10250. | 3.2 | 2 |
| 11 | Effects of SOP Lagoon Additive on Gaseous Emissions from Stored Liquid Dairy Manure. Sustainability, 2020, 12, 1393. | 3.2 | 8 |
| 12 | Innovative cooling strategies: Dairy cow responses and water and energy use. Journal of Dairy Science, 2020, 103, 5440-5454. | 3.4 | 15 |
| 13 | Dosageâ€dependent effects of monensin on the rumen microbiota of lactating dairy cattle. MicrobiologyOpen, 2019, 8, e783. | 3.0 | 6 |
| 14 | 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. Journal of Dairy Science, 2019, 102, 4506-4521. | 3.4 | 4 |
| 15 | Carbon and blue water footprints of California sheep production1. Journal of Animal Science, 2019, 97, 945-961. | 0.5 | 19 |
| 16 | Effects of biotin and nicotinamide supplementation on glucose and lipid metabolism and milk production of transition dairy cows. Animal Feed Science and Technology, 2018, 237, 106-117. | 2.2 | 15 |
| 17 | Land-use change emissions from soybean feed embodied in Brazilian pork and poultry meat. Journal of Cleaner Production, 2018, 172, 2646-2654. | 9.3 | 33 |
| 18 | Profiling of the Microbiome Associated With Nitrogen Removal During Vermifiltration of Wastewater From a Commercial Dairy. Frontiers in Microbiology, 2018, 9, 1964. | 3.5 | 9 |

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|---|---|---|---|
| 19 | 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 |
| 20 | Impact of Feed Delivery Pattern on Aerial Particulate Matter and Behavior of Feedlot Cattle â€. Animals, 2017, 7, 14. | 2.3 | 0 |
| 21 | Review of research to inform California's climate scoping plan: Agriculture and working lands. California Agriculture, 2017, 71, 160-168. | 0.8 | 3 |
| 22 | Wooden hutch space allowance influences male Holstein calf health, performance, daily lying time, and respiratory immunity. Journal of Dairy Science, 2016, 99, 4678-4692. | 3.4 | 16 |
| 23 | Mitigation of enteric methane emissions from global livestock systems through nutrition strategies. Climatic Change, 2016, 137, 467-480. | 3.6 | 35 |
| 24 | Nutrient flow and distribution in conventional cage, enriched colony, and aviary layer houses. Poultry Science, 2016, 95, 213-224. | 3.4 | 1 |
| 25 | Particulate Matter, Endotoxin, and Worker Respiratory Health on Large Californian Dairies. Journal of Occupational and Environmental Medicine, 2015, 57, 79-87. | 1.7 | 21 |
| 26 | Cage Versus Noncage Laying-Hen Housings: Worker Respiratory Health. Journal of Agromedicine, 2015, 20, 256-264. | 1.5 | 11 |
| 27 | Cage Versus Noncage Laying-Hen Housings: Respiratory Exposures. Journal of Agromedicine, 2015, 20, 245-255. | 1.5 | 11 |
| 28 | Effects of growth-promoting technology on feedlot cattle behavior in the 21 days before slaughter. Applied Animal Behaviour Science, 2015, 162, 1-8. | 1.9 | 16 |
| 29 | Potassium sorbate reduces production of ethanol and 2 esters in corn silage. Journal of Dairy Science, 2014, 97, 7870-7878. | 3.4 | 23 |
| 30 | The Nexus of Environmental Quality and Livestock Welfare. Annual Review of Animal Biosciences, 2014, 2, 555-569. | 7.4 | 24 |
| 31 | Adaptation of Agricultural and Food Systems to a Changing Climate and Increasing Urbanization. Current Sustainable/Renewable Energy Reports, 2014, 1, 43-50. | 2.6 | 10 |
| 32 | Measurements of size- and time-resolved elemental concentrations at a California dairy farm. Atmospheric Environment, 2014, 94, 773-781. | 4.1 | 3 |
| 33 | Emission of volatile organic compounds from silage: Compounds, sources, and implications. Atmospheric Environment, 2013, 77, 827-839. | 4.1 | 67 |
| 34 | Occupational exposure to particulate matter and endotoxin for California dairy workers. International Journal of Hygiene and Environmental Health, 2013, 216, 56-62. | 4.3 | 40 |
| 35 | Acute Pulmonary Function Change Associated With Work on Large Dairies in California. Journal of Occupational and Environmental Medicine, 2013, 55, 74-79. | 1.7 | 18 |
| 36 | A Survey of Particulate Matter on California Dairy Farms. Journal of Environmental Quality, 2013, 42, 40-47. | 2.0 | 6 |

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| 37 | Characterization of Endotoxin Collected on California Dairies Using Personal and Area-Based Sampling Methods. Journal of Occupational and Environmental Hygiene, 2012, 9, 580-591. | 1.0 | 13 |
| 38 | Mobile Source and Livestock Feed Contributions to Regional Ozone Formation in Central California. Environmental Science & Technology, 2012, 46, 2781-2789. | 10.0 | 31 |
| 39 | Beef production in balance: Considerations for life cycle analyses. Meat Science, 2012, 92, 179-181. | 5.5 | 14 |
| 40 | Growth-promoting technologies decrease the carbon footprint, ammonia emissions, and costs of California beef production systems1. Journal of Animal Science, 2012, 90, 4656-4665. | 0.5 | 29 |
| 41 | Estimation of the Interference in Multi-Gas Measurements Using Infrared Photoacoustic Analyzers. Atmosphere, 2012, 3, 246-265. | 2.3 | 32 |
| 42 | Manure-DNDC: a biogeochemical process model for quantifying greenhouse gas and ammonia emissions from livestock manure systems. Nutrient Cycling in Agroecosystems, 2012, 93, 163-200. | 2.2 | 195 |
| 43 | Identification and Quantitation of Volatile Organic Compounds Emitted from Dairy Silages and Other Feedstuffs. Journal of Environmental Quality, 2011, 40, 28-36. | 2.0 | 35 |
| 44 | Determination of Volatile Organic Compound Emissions and Ozone Formation from Spraying Solventâ€based Pesticides. Journal of Environmental Quality, 2011, 40, 1423-1431. | 2.0 | 9 |
| 45 | Greenhouse Gas and Alcohol Emissions from Feedlot Steers and Calves. Journal of Environmental Quality, 2011, 40, 899-906. | 2.0 | 27 |
| 46 | Greenhouse Gas Emission Sources from Beef and Dairy Production Systems in the United States. ACS Symposium Series, 2011, , 407-417. | 0.5 | 2 |
| 47 | Mitigation of Greenhouse Gas Emissions from U.S. Beef and Dairy Production Systems. ACS Symposium Series, 2011, , 443-457. | 0.5 | 3 |
| 48 | Volatile organic compound emissions from green waste composting: Characterization and ozone formation. Atmospheric Environment, 2011, 45, 1841-1848. | 4.1 | 56 |
| 49 | Construction and Operation of a Ventilated Hood System for Measuring Greenhouse Gas and Volatile Organic Compound Emissions from Cattle. Animals, 2011, 1, 433-446. | 2.3 | 34 |
| 50 | Food-Animal Production and Global Change Implications. , 2011, , 1-16. | | 0 |
| 51 | Effect of dietary monensin on the bacterial population structure of dairy cattle colonic contents. Applied Microbiology and Biotechnology, 2010, 85, 1947-1952. | 3.6 | 15 |
| 52 | Greenhouse Gas, Animal Performance, and Bacterial Population Structure Responses to Dietary Monensin Fed to Dairy Cows. Journal of Environmental Quality, 2010, 39, 106-114. | 2.0 | 39 |
| 53 | Reactive Organic Gas Emissions from Livestock Feed Contribute Significantly to Ozone Production in Central California. Environmental Science & Technology, 2010, 44, 2309-2314. | 10.0 | 60 |
| 54 | Direct Measurements of the Ozone Formation Potential from Livestock and Poultry Waste Emissions. Environmental Science & Technology, 2010, 44, 2292-2298. | 10.0 | 28 |

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| 55 | Lung antioxidant and cytokine responses to coarse and fine particulate matter from the great California wildfires of 2008. Inhalation Toxicology, 2010, 22, 561-570. | 1.6 | 60 |
| 56 | Aerosols in the Agricultural Setting. Journal of Agromedicine, 2009, 14, 413-416. | 1.5 | 5 |
| 57 | Clearing the Air. Advances in Agronomy, 2009, 103, 1-40. | 5.2 | 108 |
| 58 | Direct measurements improve estimates of dairy greenhouse-gas emissions. California Agriculture, 2009, 63, 79-83. | 0.8 | 4 |
| 59 | Alcohol, Volatile Fatty Acid, Phenol, and Methane Emissions from Dairy Cows and Fresh Manure. Journal of Environmental Quality, 2008, 37, 615-622. | 2.0 | 64 |
| 60 | Effects of Sodium Bisulfate on Alcohol, Amine, and Ammonia Emissions from Dairy Slurry. Journal of Environmental Quality, 2008, 37, 608-614. | 2.0 | 29 |
| 61 | Worker Health and Safety in Concentrated Animal Feeding Operations. Journal of Agricultural Safety and Health, 2008, 14, 163-187. | 0.4 | 63 |
| 62 | Bacterial Population Dynamics in Dairy Waste during Aerobic and Anaerobic Treatment and Subsequent Storage. Applied and Environmental Microbiology, 2007, 73, 193-202. | 3.1 | 54 |
| 63 | Volatile Organic Compound Emissions from Dairy Cows and Their Waste as Measured by Proton-Transfer-Reaction Mass Spectrometry. Environmental Science & Technology, 2007, 41, 1310-1316. | 10.0 | 119 |
| 64 | Agricultural ammonia sensor using diode lasers and photoacoustic spectroscopy. Measurement Science and Technology, 2005, 16, 1547-1553. | 2.6 | 59 |
| 65 | Shade effects on performance, carcass traits, physiology, and behavior of heat-stressed feedlot heifers. Journal of Animal Science, 2002, 80, 2043. | 0.5 | 100 |
| 66 | Impacts and mitigation of emissions from dairy feeds on air quality. , 0, , 47-60. | | 1 |