

Cecile Martin

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

5,620
citations

100601

38
h-index

90395

73
g-index

80
all docs

80
docs citations

80
times ranked

4226
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Full adoption of the most effective strategies to mitigate methane emissions by ruminants can help meet the 1.5°C target by 2030 but not 2050. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2111294119. | 3.3 | 77 |
| 2 | Improving robustness and accuracy of predicted daily methane emissions of dairy cows using milk mid-infrared spectra. <i>Journal of the Science of Food and Agriculture</i> , 2021, 101, 3394-3403. | 1.7 | 14 |
| 3 | Inhibition of enteric methanogenesis in dairy cows induces changes in plasma metabolome highlighting metabolic shifts and potential markers of emission. <i>Scientific Reports</i> , 2020, 10, 15591. | 1.6 | 19 |
| 4 | Effect of increasing the proportion of chicory in forage-based diets on intake and digestion by sheep. <i>Animal</i> , 2019, 13, 718-726. | 1.3 | 16 |
| 5 | Prediction of enteric methane production, yield and intensity of beef cattle using an intercontinental database. <i>Agriculture, Ecosystems and Environment</i> , 2019, 283, 106575. | 2.5 | 57 |
| 6 | Evaluation of the performance of existing mathematical models predicting enteric methane emissions from ruminants: Animal categories and dietary mitigation strategies. <i>Animal Feed Science and Technology</i> , 2019, 255, 114207. | 1.1 | 21 |
| 7 | Bacterial direct-fed microbials fail to reduce methane emissions in primiparous lactating dairy cows. <i>Journal of Animal Science and Biotechnology</i> , 2019, 10, 41. | 2.1 | 21 |
| 8 | Changes in the Rumen Microbiota of Cows in Response to Dietary Supplementation with Nitrate, Linseed, and Saponin Alone or in Combination. <i>Applied and Environmental Microbiology</i> , 2019, 85, . | 1.4 | 25 |
| 9 | Effects of starch-rich or lipid-supplemented diets that induce milk fat depression on rumen biohydrogenation of fatty acids and methanogenesis in lactating dairy cows. <i>Animal</i> , 2019, 13, 1421-1431. | 1.3 | 19 |
| 10 | Comparison of 3 methods for estimating enteric methane and carbon dioxide emission in nonlactating cows. <i>Journal of Animal Science</i> , 2018, 96, 1559-1569. | 0.2 | 20 |
| 11 | Symposium review: Uncertainties in enteric methane inventories, measurement techniques, and prediction models. <i>Journal of Dairy Science</i> , 2018, 101, 6655-6674. | 1.4 | 103 |
| 12 | Effects of carbohydrate type or bicarbonate addition to grass silage-based diets on enteric methane emissions and milk fatty acid composition in dairy cows. <i>Journal of Dairy Science</i> , 2018, 101, 6085-6097. | 1.4 | 17 |
| 13 | Prediction of enteric methane production, yield, and intensity in dairy cattle using an intercontinental database. <i>Global Change Biology</i> , 2018, 24, 3368-3389. | 4.2 | 166 |
| 14 | Linseed plus nitrate in the diet for fattening bulls: effects on methane emission, animal health and residues in offal. <i>Animal</i> , 2018, 12, 501-507. | 1.3 | 13 |
| 15 | Relative reticulo-rumen pH indicators for subacute ruminal acidosis detection in dairy cows. <i>Animal</i> , 2018, 12, 481-490. | 1.3 | 42 |
| 16 | Evaluation of sample preparation methods for NMR-based metabolomics of cow milk. <i>Heliyon</i> , 2018, 4, e00856. | 1.4 | 17 |
| 17 | Effectiveness of Interventions to Modulate the Rumen Microbiota Composition and Function in Pre-ruminant and Ruminant Lambs. <i>Frontiers in Microbiology</i> , 2018, 9, 1273. | 1.5 | 52 |
| 18 | Short communication: Development of an equation for estimating methane emissions of dairy cows from milk Fourier transform mid-infrared spectra by using reference data obtained exclusively from respiration chambers. <i>Journal of Dairy Science</i> , 2018, 101, 7618-7624. | 1.4 | 38 |

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|----|--|-----|-----------|
| 19 | Tea saponin reduced methanogenesis in vitro but increased methane yield in lactating dairy cows. <i>Journal of Dairy Science</i> , 2017, 100, 1845-1855. | 1.4 | 31 |
| 20 | Effects of bacterial direct-fed microbials on ruminal characteristics, methane emission, and milk fatty acid composition in cows fed high- or low-starch diets. <i>Journal of Dairy Science</i> , 2017, 100, 2637-2650. | 1.4 | 39 |
| 21 | Associative effects between fresh perennial ryegrass and white clover on dynamics of intake and digestion in sheep. <i>Grass and Forage Science</i> , 2017, 72, 691-699. | 1.2 | 13 |
| 22 | The Structural and Functional Capacity of Ruminal and Cecal Microbiota in Growing Cattle Was Unaffected by Dietary Supplementation of Linseed Oil and Nitrate. <i>Frontiers in Microbiology</i> , 2017, 8, 937. | 1.5 | 42 |
| 23 | Dose-response effect of nitrate on hydrogen distribution between rumen fermentation end products: an in vitro approach. <i>Animal Production Science</i> , 2016, 56, 224. | 0.6 | 19 |
| 24 | Long-term effect of linseed plus nitrate fed to dairy cows on enteric methane emission and nitrate and nitrite residuals in milk. <i>Animal</i> , 2016, 10, 1173-1181. | 1.3 | 34 |
| 25 | Repeatability of enteric methane determinations from cattle using either the SF6 tracer technique or the GreenFeed system. <i>Animal Production Science</i> , 2016, 56, 238. | 0.6 | 37 |
| 26 | Increasing linseed supply in dairy cow diets based on hay or corn silage: Effect on enteric methane emission, rumen microbial fermentation, and digestion. <i>Journal of Dairy Science</i> , 2016, 99, 3445-3456. | 1.4 | 66 |
| 27 | Bioavailability of aflatoxin B1 and ochratoxin A, but not fumonisin B1 or deoxynivalenol, is increased in starch-induced low ruminal pH in nonlactating dairy cows. <i>Journal of Dairy Science</i> , 2016, 99, 9759-9767. | 1.4 | 12 |
| 28 | Additive methane-mitigating effect between linseed oil and nitrate fed to cattle ¹ . <i>Journal of Animal Science</i> , 2015, 93, 3564-3577. | 0.2 | 95 |
| 29 | Associative effects between orchardgrass and red clover silages on voluntary intake and digestion in sheep: Evidence of a synergy on digestible dry matter intake ¹ . <i>Journal of Animal Science</i> , 2015, 93, 4967-4976. | 0.2 | 20 |
| 30 | Nitrate but not tea saponin feed additives decreased enteric methane emissions in nonlactating cows ¹ . <i>Journal of Animal Science</i> , 2015, 93, 5367-5377. | 0.2 | 25 |
| 31 | Influence of rumen protozoa on methane emission in ruminants: a meta-analysis approach. <i>Animal</i> , 2014, 8, 1816-1825. | 1.3 | 113 |
| 32 | Effects of dehydrated lucerne and soya bean meal on milk production and composition, nutrient digestion, and methane and nitrogen losses in dairy cows receiving two different forages. <i>Animal</i> , 2014, 8, 420-430. | 1.3 | 18 |
| 33 | Methane emission of Blackbelly rams consuming whole sugarcane forage compared with <i>Dichanthium</i> sp. hay. <i>Animal Feed Science and Technology</i> , 2014, 190, 30-37. | 1.1 | 7 |
| 34 | The use of direct-fed microbials for mitigation of ruminant methane emissions: a review. <i>Animal</i> , 2014, 8, 250-261. | 1.3 | 114 |
| 35 | Effects of incremental amounts of extruded linseed on the milk fatty acid composition of dairy cows receiving hay or corn silage. <i>Journal of Dairy Science</i> , 2013, 96, 6577-6595. | 1.4 | 50 |
| 36 | Methionine analogues HMB and HMBi increase the abundance of cellulolytic bacterial representatives in the rumen of cattle with no direct effects on fibre degradation. <i>Animal Feed Science and Technology</i> , 2013, 182, 16-24. | 1.1 | 26 |

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|----|---|-----|-----------|
| 37 | Methanogens and Methanogenesis in the Rumen and Ceca of Lambs Fed Two Different High-Grain-Content Diets. <i>Applied and Environmental Microbiology</i> , 2013, 79, 1777-1786. | 1.4 | 46 |
| 38 | Fungal secondary metabolites from <i>Monascus</i> spp. reduce rumen methane production in vitro and in vivo ¹ . <i>Journal of Animal Science</i> , 2013, 91, 848-860. | 0.2 | 44 |
| 39 | Repeated acidosis challenges and live yeast supplementation shape rumen microbiota and fermentations and modulate inflammatory status in sheep. <i>Animal</i> , 2013, 7, 1910-1920. | 1.3 | 38 |
| 40 | Rumen protozoa and methanogenesis: not a simple causeâ€“effect relationship. <i>British Journal of Nutrition</i> , 2012, 107, 388-397. | 1.2 | 132 |
| 41 | Potential use of milk mid-infrared spectra to predict individual methane emission of dairy cows. <i>Animal</i> , 2012, 6, 1694-1701. | 1.3 | 89 |
| 42 | Effect of release rate of the SF6 tracer on methane emission estimates based on ruminal and breath gas samples. <i>Animal</i> , 2012, 6, 518-525. | 1.3 | 8 |
| 43 | Behavioural adaptations of sheep to repeated acidosis challenges and effect of yeast supplementation. <i>Animal</i> , 2012, 6, 2011-2022. | 1.3 | 14 |
| 44 | Rumen microbial and fermentation characteristics are affected differently by bacterial probiotic supplementation during induced lactic and subacute acidosis in sheep. <i>BMC Microbiology</i> , 2012, 12, 142. | 1.3 | 67 |
| 45 | Comparison of methane production between C3 and C4 grasses and legumes. <i>Animal Feed Science and Technology</i> , 2011, 166-167, 59-64. | 1.1 | 164 |
| 46 | Dietary linseed and starch supplementation decreases methane production of fattening bulls. <i>Animal Feed Science and Technology</i> , 2011, 166-167, 330-337. | 1.1 | 20 |
| 47 | Effect of fibre- and starch-rich finishing diets on methanogenic Archaea diversity and activity in the rumen of feedlot bulls. <i>Animal Feed Science and Technology</i> , 2011, 166-167, 113-121. | 1.1 | 61 |
| 48 | Long-term defaunation increases the abundance of cellulolytic ruminococci and methanogens but does not affect the bacterial and methanogen diversity in the rumen of sheep ¹ . <i>Journal of Animal Science</i> , 2011, 89, 783-791. | 0.2 | 107 |
| 49 | Enteric methane production and greenhouse gases balance of diets differing in concentrate in the fattening phase of a beef production system ¹ . <i>Journal of Animal Science</i> , 2011, 89, 2518-2528. | 0.2 | 78 |
| 50 | Experimental feed induction of ruminal lactic, propionic, or butyric acidosis in sheep ¹ . <i>Journal of Animal Science</i> , 2010, 88, 3041-3046. | 0.2 | 42 |
| 51 | Improved protocol for high-quality Co-extraction of DNA and RNA from rumen digesta. <i>Folia Microbiologica</i> , 2010, 55, 368-372. | 1.1 | 22 |
| 52 | Microbial ecosystem and methanogenesis in ruminants. <i>Animal</i> , 2010, 4, 1024-1036. | 1.3 | 478 |
| 53 | Methane mitigation in ruminants: from microbe to the farm scale. <i>Animal</i> , 2010, 4, 351-365. | 1.3 | 650 |
| 54 | Effects of linseed lipids fed as rolled seeds, extruded seeds or oil on organic matter and crude protein digestion in cows. <i>Animal Feed Science and Technology</i> , 2009, 150, 187-196. | 1.1 | 42 |

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|----|--|-----|-----------|
| 55 | Milk fatty acids in dairy cows fed whole crude linseed, extruded linseed, or linseed oil, and their relationship with methane output. <i>Journal of Dairy Science</i> , 2009, 92, 5199-5211. | 1.4 | 248 |
| 56 | Risk of subacute ruminal acidosis in sheep with separate access to forage and concentrate. <i>Journal of Animal Science</i> , 2009, 87, 3372-3379. | 0.2 | 21 |
| 57 | Effects of the forage-to-concentrate ratio of the diet on feeding behaviour in young Blond dâ€™Aquitaine bulls. <i>Animal</i> , 2008, 2, 1682-1691. | 1.3 | 22 |
| 58 | Changes in methane emission and rumen fermentation parameters induced by refaunation in sheep. <i>Australian Journal of Experimental Agriculture</i> , 2008, 48, 69. | 1.0 | 60 |
| 59 | Methane output and diet digestibility in response to feeding dairy cows crude linseed, extruded linseed, or linseed oil. <i>Journal of Animal Science</i> , 2008, 86, 2642-2650. | 0.2 | 281 |
| 60 | PCR-DGGE analysis reveals a distinct diversity in the bacterial population attached to the rumen epithelium. <i>Animal</i> , 2007, 1, 939-944. | 1.3 | 81 |
| 61 | Estimating the greenhouse gas fluxes of European grasslands with a process-based model: 1. Model evaluation from in situ measurements. <i>Global Biogeochemical Cycles</i> , 2007, 21, . | 1.9 | 36 |
| 62 | Effects of stocking rate on methane and carbon dioxide emissions from grazing cattle. <i>Agriculture, Ecosystems and Environment</i> , 2007, 121, 30-46. | 2.5 | 102 |
| 63 | The role of grazing management for the net biome productivity and greenhouse gas budget (CO ₂ , N ₂ O) Tj ETQq1 1,0784314 rgBT / O 2.5 205 | 2.5 | 102 |
| 64 | Full accounting of the greenhouse gas (CO ₂ , N ₂ O, CH ₄) budget of nine European grassland sites. <i>Agriculture, Ecosystems and Environment</i> , 2007, 121, 121-134. | 2.5 | 409 |
| 65 | Dose effect of live yeasts on rumen microbial communities and fermentations during butyric latent acidosis in sheep: new type of interaction. <i>Animal Science</i> , 2006, 82, 829-836. | 1.3 | 52 |
| 66 | Protozoa involved in butyric rather than lactic fermentative pattern during latent acidosis in sheep. <i>Reproduction, Nutrition, Development</i> , 2004, 44, 195-206. | 1.9 | 62 |
| 67 | Effect of Corn Hybrid and Chop Length of Whole-Plant Corn Silage on Digestion and Intake by Dairy Cows. <i>Journal of Dairy Science</i> , 2004, 87, 1298-1309. | 1.4 | 34 |
| 68 | Methane emissions by Charolais cows grazing a monospecific pasture of timothy at four stages of maturity. <i>Canadian Journal of Animal Science</i> , 2003, 83, 769-777. | 0.7 | 79 |
| 69 | Ruminal fermentative parameters and blood acido-basic balance changes during the onset and recovery of induced latent acidosis in sheep. <i>Animal Research</i> , 2003, 52, 513-530. | 0.6 | 35 |
| 70 | Comparison of non-tracer and tracer methods for determination of volatile fatty acid production rate in the rumen of sheep fed on two levels of intake. <i>British Journal of Nutrition</i> , 2001, 86, 331-340. | 1.2 | 15 |
| 71 | Effect of composition of ruminally-infused short-chain fatty acids on net fluxes of nutrients across portal-drained viscera in underfed ewes. <i>British Journal of Nutrition</i> , 2000, 83, 521-531. | 1.2 | 33 |
| 72 | Effect of Barley Supplement on Microbial Fibrolytic Enzyme Activities and Cell Wall Degradation Rate in the Rumen. <i>Journal of the Science of Food and Agriculture</i> , 1996, 72, 235-242. | 1.7 | 22 |

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|----|---|-----|-----------|
| 73 | Influence of barley and buffer supplements on quantitative aspects of Ruminant fiber digestion of cows. <i>Archiv Fur Tierernahrung</i> , 1996, 49, 203-211. | 0.3 | 2 |
| 74 | Variations in mass and enzyme activity of rumen microorganisms: Effect of barley and buffer supplements. <i>Journal of the Science of Food and Agriculture</i> , 1995, 67, 407-413. | 1.7 | 68 |
| 75 | Enzyme activities of rumen solid-adherent microorganisms in chronically underfed ewes. <i>Journal of the Science of Food and Agriculture</i> , 1994, 65, 423-428. | 1.7 | 12 |
| 76 | Isolation and characteristics of the protozoal and bacterial fractions from bovine ruminal contents. <i>Journal of Animal Science</i> , 1994, 72, 2962-2968. | 0.2 | 82 |
| 77 | Postprandial variations in the activity of polysaccharide-degrading enzymes of fluid- and particle-associated ruminal microbial populations. <i>Current Microbiology</i> , 1993, 27, 223-228. | 1.0 | 32 |
| 78 | Influence du repas sur l'activité enzymatique des différentes populations microbiennes du rumen. <i>Animal Research</i> , 1993, 42, 181-182. | 0.6 | 0 |
| 79 | Use of Yeast Probiotics in Ruminants: Effects and Mechanisms of Action on Rumen pH, Fibre Degradation, and Microbiota According to the Diet. , 0, , . | | 26 |