

# Michael Lee

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1173636/publications.pdf>

Version: 2024-02-01

64  
papers

3,676  
citations

185998

28  
h-index

133063

59  
g-index

64  
all docs

64  
docs citations

64  
times ranked

3184  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of clover silages on long chain fatty acid rumen transformations and digestion in beef steers. <i>Animal Science</i> , 2003, 76, 491-501.	1.3	373
2	Effects of high-sugar ryegrass silage and mixtures with red clover silage on ruminant digestion. 1. In vitro and in vivo studies of nitrogen utilization. <i>Journal of Animal Science</i> , 2006, 84, 3049-3060.	0.2	373
3	Red clover polyphenol oxidase and lipid metabolism. <i>Animal</i> , 2011, 5, 512-521.	1.3	330
4	Agriculture: Steps to sustainable livestock. <i>Nature</i> , 2014, 507, 32-34.	13.7	276
5	China's livestock transition: Driving forces, impacts, and consequences. <i>Science Advances</i> , 2018, 4, eaar8534.	4.7	253
6	As yet uncultured bacteria phylogenetically classified as <i>Prevotella</i> , <i>Lachnospiraceae</i> incertae sedis and unclassified <i>Bacteroidales</i> , <i>Clostridiales</i> and <i>Ruminococcaceae</i> may play a predominant role in ruminal biohydrogenation. <i>Environmental Microbiology</i> , 2011, 13, 1500-1512.	1.8	191
7	Review: Use of human-edible animal feeds by ruminant livestock. <i>Animal</i> , 2018, 12, 1735-1743.	1.3	108
8	Forage type and fish oil cause shifts in rumen bacterial diversity. <i>FEMS Microbiology Ecology</i> , 2010, 73, no-no.	1.3	106
9	Rumen metabolism and nitrogen flow to the small intestine in steers offered <i>Lolium perenne</i> containing different levels of water-soluble carbohydrate. <i>Animal Science</i> , 2002, 74, 587-596.	1.3	91
10	Production responses from lambs grazed on <i>Lolium perenne</i> selected for an elevated water-soluble carbohydrate concentration. <i>Animal Research</i> , 2001, 50, 441-449.	0.6	81
11	The North West Farm Platform: effect of temperate grassland farming systems on soil moisture contents, runoff and associated water quality dynamics. <i>European Journal of Soil Science</i> , 2016, 67, 374-385.	1.8	81
12	Latent and Active Polyphenol Oxidase (PPO) in Red Clover ( <i>Trifolium pratense</i> ) and Use of a Low PPO Mutant To Study the Role of PPO in Proteolysis Reduction. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 2817-2824.	2.4	78
13	Assessment of dietary ratios of red clover and grass silages on milk production and milk quality in dairy cows. <i>Journal of Dairy Science</i> , 2009, 92, 1148-1160.	1.4	76
14	Some challenges and opportunities for grazing dairy cows on temperate pastures. <i>Grass and Forage Science</i> , 2020, 75, 1-17.	1.2	75
15	Applications of nutritional functional units in commodity-level life cycle assessment (LCA) of agri-food systems. <i>International Journal of Life Cycle Assessment</i> , 2020, 25, 208-221.	2.2	72
16	Forage polyphenol oxidase and ruminant livestock nutrition. <i>Frontiers in Plant Science</i> , 2014, 5, 694.	1.7	65
17	Distributions of emissions intensity for individual beef cattle reared on pasture-based production systems. <i>Journal of Cleaner Production</i> , 2018, 171, 1672-1680.	4.6	58
18	Global environmental costs of China's thirst for milk. <i>Global Change Biology</i> , 2018, 24, 2198-2211.	4.2	56

#	ARTICLE	IF	CITATIONS
19	Polyphenol oxidase activity in grass and its effect on plant-mediated lipolysis and proteolysis of <i>Dactylis glomerata</i> (cocksfoot) in a simulated rumen environment. <i>Journal of the Science of Food and Agriculture</i> , 2006, 86, 1503-1511.	1.7	55
20	Effect of replacing grass silage with red clover silage on nutrient digestion, nitrogen metabolism, and milk fat composition in lactating cows fed diets containing a 60:40 forage-to-concentrate ratio. <i>Journal of Dairy Science</i> , 2014, 97, 3761-3776.	1.4	55
21	Beef, chicken and lamb fatty acid analysis – a simplified direct bimethylation procedure using freeze-dried material. <i>Meat Science</i> , 2012, 92, 863-866.	2.7	54
22	Red clover polyphenol oxidase: Activation, activity and efficacy under grazing. <i>Animal Feed Science and Technology</i> , 2009, 149, 250-264.	1.1	53
23	Genotyping by RAD sequencing enables mapping of fatty acid composition traits in perennial ryegrass ( <i>Lolium perenne</i> (L.)). <i>Plant Biotechnology Journal</i> , 2013, 11, 572-581.	4.1	53
24	Comparative Nutrient Profiling of Retail Goat and Cow Milk. <i>Nutrients</i> , 2019, 11, 2282.	1.7	52
25	Framework for life cycle assessment of livestock production systems to account for the nutritional quality of final products. <i>Food and Energy Security</i> , 2018, 7, e00143.	2.0	49
26	Effects of high-sugar ryegrass silage and mixtures with red clover silage on ruminant digestion. 2. Lipids. <i>Journal of Animal Science</i> , 2006, 84, 3061-3070.	0.2	44
27	Environmental trade-offs of pig production systems under varied operational efficiencies. <i>Journal of Cleaner Production</i> , 2017, 165, 1163-1173.	4.6	43
28	Roles of instrumented farm-scale trials in trade-off assessments of pasture-based ruminant production systems. <i>Animal</i> , 2018, 12, 1766-1776.	1.3	33
29	Factors Affecting Site Use Preference of Grazing Cattle Studied from 2000 to 2020 through GPS Tracking: A Review. <i>Sensors</i> , 2021, 21, 2696.	2.1	29
30	Immunogold labelling to localize polyphenol oxidase (PPO) during wilting of red clover leaf tissue and the effect of removing cellular matrices on PPO protection of glycerol-based lipid in the rumen. <i>Journal of the Science of Food and Agriculture</i> , 2010, 90, 503-510.	1.7	28
31	Effect of replacing grass silage with red clover silage on ruminal lipid metabolism in lactating cows fed diets containing a 60:40 forage-to-concentrate ratio. <i>Journal of Dairy Science</i> , 2013, 96, 5882-5900.	1.4	27
32	Oxidation of ortho-diphenols in red clover with and without polyphenol oxidase (PPO) activity and their role in PPO activation and inactivation. <i>Grass and Forage Science</i> , 2013, 68, 83-92.	1.2	25
33	Assessment of soil water, carbon and nitrogen cycling in reseeded grassland on the North Wyke Farm Platform using a process-based model. <i>Science of the Total Environment</i> , 2017, 603-604, 27-37.	3.9	21
34	Modelling field scale spatial variation in water run-off, soil moisture, N <sub>2</sub> O emissions and herbage biomass of a grazed pasture using the SPACSYS model. <i>Geoderma</i> , 2018, 315, 49-58.	2.3	21
35	Size does matter: Parallel evolution of adaptive thermal tolerance and body size facilitates adaptation to climate change in domestic cattle. <i>Ecology and Evolution</i> , 2018, 8, 10608-10620.	0.8	21
36	Livestock Performance for Sheep and Cattle Grazing Lowland Permanent Pasture: Benchmarking Potential of Forage-Based Systems. <i>Agronomy</i> , 2019, 9, 101.	1.3	20

#	ARTICLE	IF	CITATIONS
37	Elucidating three-way interactions between soil, pasture and animals that regulate nitrous oxide emissions from temperate grazing systems. <i>Agriculture, Ecosystems and Environment</i> , 2020, 300, 106978.	2.5	18
38	The effect of high polyphenol oxidase grass silage on metabolism of polyunsaturated fatty acids and nitrogen across the rumen of beef steers. <i>Journal of Animal Science</i> , 2014, 92, 5076-5087.	0.2	16
39	Does the "high sugar" trait of perennial ryegrass cultivars express under temperate climate conditions?. <i>Grass and Forage Science</i> , 2019, 74, 496-508.	1.2	16
40	Key traits for ruminant livestock across diverse production systems in the context of climate change: perspectives from a global platform of research farms. <i>Reproduction, Fertility and Development</i> , 2021, 33, 1.	0.1	15
41	In Vitro Fermentation Patterns and Methane Output of Perennial Ryegrass Differing in Water-Soluble Carbohydrate and Nitrogen Concentrations. <i>Animals</i> , 2020, 10, 1076.	1.0	14
42	A perspective on animal welfare of grazing ruminants and its relationship with sustainability. <i>Animal Production Science</i> , 2022, 62, 1739-1748.	0.6	13
43	Effects of soybean oil supplement to diets of lactating dairy cows, on productive performance, and milk fat acids profile: a meta-analysis. <i>Italian Journal of Animal Science</i> , 2019, 18, 809-819.	0.8	12
44	The Mineral Composition of Wild-Type and Cultivated Varieties of Pasture Species. <i>Agronomy</i> , 2020, 10, 1463.	1.3	12
45	Welfare Challenges of Dairy Cows in India Identified Through On-Farm Observations. <i>Animals</i> , 2020, 10, 586.	1.0	12
46	Nutritional value of suckler beef from temperate pasture systems. <i>Animal</i> , 2021, 15, 100257.	1.3	12
47	The potential of silage lactic acid bacteria-derived nano-selenium as a dietary supplement in sheep. <i>Animal Production Science</i> , 2019, 59, 1999.	0.6	10
48	Comparative Expression Profiling and Sequence Characterization of ATP1A1 Gene Associated with Heat Tolerance in Tropically Adapted Cattle. <i>Animals</i> , 2021, 11, 2368.	1.0	10
49	Simulating grazing beef and sheep systems. <i>Agricultural Systems</i> , 2022, 195, 103307.	3.2	10
50	Taking the steps toward sustainable livestock: our multidisciplinary global farm platform journey. <i>Animal Frontiers</i> , 2021, 11, 52-58.	0.8	10
51	Fatty acid oxidation products ("green odour") released from perennial ryegrass following biotic and abiotic stress, potentially have antimicrobial properties against the rumen microbiota resulting in decreased biohydrogenation. <i>Journal of Applied Microbiology</i> , 2013, 115, 1081-1090.	1.4	9
52	Using a lamb's early-life liveweight as a predictor of carcass quality. <i>Animal</i> , 2021, 15, 100018.	1.3	9
53	The "Palo a Pique" Long-Term Research Platform: First 25 Years of a Crop-Livestock Experiment in Uruguay. <i>Agronomy</i> , 2020, 10, 441.	1.3	8
54	Nutrient provision capacity of alternative livestock farming systems per area of arable farmland required. <i>Scientific Reports</i> , 2021, 11, 14975.	1.6	8

#	ARTICLE	IF	CITATIONS
55	Livestock production evolving to contribute to sustainable societies. <i>Animal</i> , 2018, 12, 1696-1698.	1.3	7
56	In vitro investigation into the nutritive value of <i>Lolium perenne</i> bred for an elevated concentration of water-soluble carbohydrate and the added effect of sample processing: freeze-dried and ground vs. frozen and thawed. <i>Animal Research</i> , 2002, 51, 269-277.	0.6	7
57	CO2 fluxes from three different temperate grazed pastures using Eddy covariance measurements. <i>Science of the Total Environment</i> , 2022, 831, 154819.	3.9	6
58	Nitrogen and fatty acid rumen metabolism in cattle offered high or low polyphenol oxidase red clover silage. <i>Animal</i> , 2019, 13, 1623-1634.	1.3	5
59	Impacts of African swine fever on water quality in China. <i>Environmental Research Letters</i> , 2021, 16, 054032.	2.2	5
60	Cross Inoculation of Rumen Fluid to Improve Dry Matter Disappearance and Its Effect on Bacterial Composition Using an in vitro Batch Culture Model. <i>Frontiers in Microbiology</i> , 2020, 11, 531404.	1.5	2
61	Quantifying the value of on-farm measurements to inform the selection of key performance indicators for livestock production systems. <i>Scientific Reports</i> , 2021, 11, 16874.	1.6	2
62	Data to identify key drivers of animal growth and carcass quality for temperate lowland sheep production systems. <i>Data in Brief</i> , 2021, 35, 106977.	0.5	1
63	The role of pasture in the diet of ruminant livestock. <i>Burleigh Dodds Series in Agricultural Science</i> , 2018, , 31-54.	0.1	1
64	Comparisons of commercially available NIRS-based analyte predictions of haylage quality for equid nutrition. <i>Animal Feed Science and Technology</i> , 2022, 283, 115158.	1.1	0