

Richard Eckard

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

3,446
citations

147801

31
h-index

155660

55
g-index

85
all docs

85
docs citations

85
times ranked

2781
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenges and opportunities for quantifying greenhouse gas emissions through dairy cattle research in developing countries. <i>Journal of Dairy Research</i> , 2021, 88, 3-7.	1.4	9
2	Ammonia volatilisation from grazed, pasture based dairy farming systems. <i>Agricultural Systems</i> , 2021, 190, 103119.	6.1	12
3	Can seasonal soil N mineralisation trends be leveraged to enhance pasture growth?. <i>Science of the Total Environment</i> , 2021, 772, 145031.	8.0	33
4	The Potential of Deep Roots to Mitigate Impacts of Heatwaves and Declining Rainfall on Pastures in Southeast Australia. <i>Plants</i> , 2021, 10, 1641.	3.5	2
5	Carbon myopia: The urgent need for integrated social, economic and environmental action in the livestock sector. <i>Global Change Biology</i> , 2021, 27, 5726-5761.	9.5	73
6	Using Leaf Temperature to Improve Simulation of Heat and Drought Stresses in a Biophysical Model. <i>Plants</i> , 2020, 9, 8.	3.5	17
7	Changing patterns of pasture production in south-eastern Australia from 1960 to 2015. <i>Crop and Pasture Science</i> , 2020, 71, 70.	1.5	11
8	Simulated seasonal responses of grazed dairy pastures to nitrogen fertilizer in SE Australia: N loss and recovery. <i>Agricultural Systems</i> , 2020, 182, 102847.	6.1	41
9	Supplementing the diet of dairy cows with fat or tannin reduces methane yield, and additively when fed in combination. <i>Animal</i> , 2020, 14, s464-s472.	3.3	17
10	Review: Fifty years of research on rumen methanogenesis: lessons learned and future challenges for mitigation. <i>Animal</i> , 2020, 14, s2-s16.	3.3	265
11	Predicting ammonia volatilization from fertilized pastures used for grazing. <i>Agricultural and Forest Meteorology</i> , 2020, 287, 107952.	4.8	8
12	Growth and Physiological Responses of Temperate Pasture Species to Consecutive Heat and Drought Stresses. <i>Plants</i> , 2019, 8, 227.	3.5	20
13	Effect of combining wheat grain with nitrate, fat or 3-nitrooxypropanol on in vitro methane production. <i>Animal Feed Science and Technology</i> , 2019, 256, 114237.	2.2	9
14	Managing the nitrogen status of subtropical dairy pastures for production, efficiency and profit. <i>Agricultural Systems</i> , 2019, 176, 102677.	6.1	3
15	Effect of dietary fat supplementation on methane emissions from dairy cows fed wheat or corn. <i>Journal of Dairy Science</i> , 2019, 102, 2714-2723.	3.4	20
16	A partial life cycle assessment of the greenhouse gas mitigation potential of feeding 3-nitrooxypropanol and nitrate to cattle. <i>Agricultural Systems</i> , 2019, 169, 14-23.	6.1	20
17	Spatial variation in springtime temperature index values during ENSO and IOD events shows non-equivalent phase response for viticultural regions in Australia. <i>Agricultural and Forest Meteorology</i> , 2018, 250-251, 217-225.	4.8	7
18	Adaptation responses in milk fat yield and methane emissions of dairy cows when wheat was included in their diet for 16 weeks. <i>Journal of Dairy Science</i> , 2018, 101, 7117-7132.	3.4	20

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19	Trends in wheat yields under representative climate futures: Implications for climate adaptation. <i>Agricultural Systems</i> , 2018, 164, 1-10.	6.1	13
20	A review of whole farm-system analysis in evaluating greenhouse-gas mitigation strategies from livestock production systems. <i>Animal Production Science</i> , 2018, 58, 980.	1.3	15
21	Influence of El Niño-Southern Oscillation and the Indian Ocean Dipole on winegrape maturity in Australia. <i>Agricultural and Forest Meteorology</i> , 2018, 248, 502-510.	4.8	20
22	Potential impacts of climate change on soil organic carbon and productivity in pastures of south eastern Australia. <i>Agricultural Systems</i> , 2018, 167, 34-46.	6.1	29
23	Fertiliser strategies for improving nitrogen use efficiency in grazed dairy pastures. <i>Agricultural Systems</i> , 2018, 165, 274-282.	6.1	14
24	Offsets required to reduce the carbon balance of sheep and beef farms through carbon sequestration in trees and soils. <i>Animal Production Science</i> , 2018, 58, 1648.	1.3	12
25	Simulated seasonal responses of grazed dairy pastures to nitrogen fertilizer in SE Australia: Pasture production. <i>Agricultural Systems</i> , 2018, 166, 36-47.	6.1	47
26	Review: Adaptation of ruminant livestock production systems to climate changes. <i>Animal</i> , 2018, 12, s445-s456.	3.3	73
27	Relationship between viticultural climatic indices and grape maturity in Australia. <i>International Journal of Biometeorology</i> , 2017, 61, 1849-1862.	3.0	33
28	An irrigated cotton farm emissions case study in NSW, Australia. <i>Agricultural Systems</i> , 2017, 158, 61-67.	6.1	3
29	Wheat is more potent than corn or barley for dietary mitigation of enteric methane emissions from dairy cows. <i>Journal of Dairy Science</i> , 2017, 100, 7139-7153.	3.4	40
30	Carbon-neutral wool farming in south-eastern Australia. <i>Animal Production Science</i> , 2016, 56, 417.	1.3	18
31	Modelling the Effect of Diet Composition on Enteric Methane Emissions across Sheep, Beef Cattle and Dairy Cows. <i>Animals</i> , 2016, 6, 54.	2.3	31
32	Modelled greenhouse gas emissions from beef cattle grazing irrigated leucaena in northern Australia. <i>Animal Production Science</i> , 2016, 56, 594.	1.3	26
33	Modelling the influence of soil carbon on net greenhouse gas emissions from grazed pastures. <i>Animal Production Science</i> , 2016, 56, 585.	1.3	12
34	Comparative analysis of greenhouse gas emissions from three beef cattle herds in a corporate farming enterprise. <i>Animal Production Science</i> , 2016, 56, 482.	1.3	3
35	The concordance between greenhouse gas emissions, livestock production and profitability of extensive beef farming systems. <i>Animal Production Science</i> , 2016, 56, 370.	1.3	44
36	Reducing the carbon footprint of Australian milk production by mitigation of enteric methane emissions. <i>Animal Production Science</i> , 2016, 56, 1017.	1.3	42

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37	An evaluation of carbon offset supplementation options for beef production systems on coastal speargrass in central Queensland, Australia. <i>Animal Production Science</i> , 2016, 56, 385.	1.3	4
38	Does producing more product over a lifetime reduce greenhouse gas emissions and increase profitability in dairy and wool enterprises?. <i>Animal Production Science</i> , 2015, 55, 49.	1.3	22
39	Modelling the potential of birdsfoot trefoil (<i>Lotus corniculatus</i>) to reduce methane emissions and increase production on wool and prime lamb farm enterprises. <i>Animal Production Science</i> , 2015, 55, 1097.	1.3	9
40	Higher energy concentration traits in perennial ryegrass (<i>Lolium perenne</i> L.) may increase profitability and improve energy conversion on dairy farms. <i>Agricultural Systems</i> , 2015, 137, 89-100.	6.1	13
41	Improving greenhouse gas emissions intensities of subtropical and tropical beef farming systems using <i>Leucaena leucocephala</i> . <i>Agricultural Systems</i> , 2015, 136, 138-146.	6.1	39
42	Nutrient density as a metric for comparing greenhouse gas emissions from food production. <i>Climatic Change</i> , 2015, 129, 73-87.	3.6	23
43	Process modelling to assess the sequestration and productivity benefits of soil carbon for pasture. <i>Agriculture, Ecosystems and Environment</i> , 2015, 213, 272-280.	5.3	47
44	Can animal genetics and flock management be used to reduce greenhouse gas emissions but also maintain productivity of wool-producing enterprises?. <i>Agricultural Systems</i> , 2015, 132, 25-34.	6.1	47
45	A modified sulphur hexafluoride tracer technique enables accurate determination of enteric methane emissions from ruminants. <i>Animal Feed Science and Technology</i> , 2014, 197, 47-63.	2.2	77
46	AÄ±k Besi SÄ±rlarÄ±n Sera GazÄ± Äœretiminin HesaplanmasÄ±nda Yeni Bir AraÅ. <i>Kafkas Universitesi Veteriner Fakültesi Dergisi</i> , 2014, , .	0.1	0
47	Northern Australian pasture and beef systems. 2. Validation and use of the Sustainable Grazing Systems (SGS) whole-farm biophysical model. <i>Animal Production Science</i> , 2014, 54, 1995.	1.3	7
48	<i>in vitro</i> screening of selected feed additives, plant essential oils and plant extracts for rumen methane mitigation. <i>Journal of the Science of Food and Agriculture</i> , 2014, 94, 1191-1196.	3.5	60
49	The challenges “ and some solutions “ to process-based modelling of grazed agricultural systems. <i>Environmental Modelling and Software</i> , 2014, 62, 420-436.	4.5	70
50	Increasing ewe genetic fecundity improves whole-farm production and reduces greenhouse gas emissions intensities. <i>Agricultural Systems</i> , 2014, 131, 23-33.	6.1	40
51	Grape marc reduces methane emissions when fed to dairy cows. <i>Journal of Dairy Science</i> , 2014, 97, 5073-5087.	3.4	132
52	Temperature, but not submersion or orientation, influences the rate of sulphur hexafluoride release from permeation tubes used for estimation of ruminant methane emissions. <i>Animal Feed Science and Technology</i> , 2014, 194, 71-80.	2.2	8
53	Modelling the reduction in enteric methane from voluntary intake versus controlled individual animal intake of lipid or nitrate supplements. <i>Animal Production Science</i> , 2014, 54, 2121.	1.3	5
54	Modelling pasture management and livestock genotype interventions to improve whole-farm productivity and reduce greenhouse gas emissions intensities. <i>Animal Production Science</i> , 2014, 54, 2018.	1.3	43

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55	Mathematical modeling for improved greenhouse gas balances, agroecosystems, and policy development: lessons from the Australian experience. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2014, 5, 735-752.	8.1	19
56	The effect of changing cow production and fitness traits on net income and greenhouse gas emissions from Australian dairy systems. <i>Journal of Dairy Science</i> , 2013, 96, 7918-7931.	3.4	34
57	Declining sulphur hexafluoride permeability of polytetrafluoroethylene membranes causes overestimation of calculated ruminant methane emissions using the tracer technique. <i>Animal Feed Science and Technology</i> , 2013, 183, 86-95.	2.2	23
58	The relative profitability of dairy, sheep, beef and grain farm enterprises in southeast Australia under selected rainfall and price scenarios. <i>Agricultural Systems</i> , 2013, 117, 35-44.	6.1	31
59	Effects of feeding algal meal high in docosahexaenoic acid on feed intake, milk production, and methane emissions in dairy cows. <i>Journal of Dairy Science</i> , 2013, 96, 3177-3188.	3.4	79
60	Effect of warming on the productivity of perennial ryegrass and kikuyu pastures in south-eastern Australia. <i>Crop and Pasture Science</i> , 2013, 64, 61.	1.5	36
61	Livestock production in a changing climate: adaptation and mitigation research in Australia. <i>Crop and Pasture Science</i> , 2012, 63, 191.	1.5	136
62	The Influence of Climate, Soil and Pasture Type on Productivity and Greenhouse Gas Emissions Intensity of Modeled Beef Cow-Calf Grazing Systems in Southern Australia. <i>Animals</i> , 2012, 2, 540-558.	2.3	8
63	Epilogue - Future challenges for the national climate change research strategy. <i>Crop and Pasture Science</i> , 2012, 63, 297.	1.5	3
64	Climate change through the farming systems lens: challenges and opportunities for farming in Australia. <i>Crop and Pasture Science</i> , 2012, 63, 203.	1.5	30
65	Modelling Nitrogen Losses from Sheep Grazing Systems with Different Spatial Distributions of Excreta. <i>Agriculture (Switzerland)</i> , 2012, 2, 282-294.	3.1	1
66	Greenhouse gas accounting for inventory, emissions trading and life cycle assessment in the land-based sector: a review. <i>Crop and Pasture Science</i> , 2012, 63, 284.	1.5	31
67	The effect of future climate scenarios on the balance between productivity and greenhouse gas emissions from sheep grazing systems. <i>Livestock Science</i> , 2012, 147, 126-138.	1.6	29
68	A comparative analysis of on-farm greenhouse gas emissions from agricultural enterprises in south eastern Australia. <i>Animal Feed Science and Technology</i> , 2011, 166-167, 641-652.	2.2	67
69	A whole farm systems analysis of greenhouse gas emissions of 60 Tasmanian dairy farms. <i>Animal Feed Science and Technology</i> , 2011, 166-167, 653-662.	2.2	30
70	Impacts of future climate scenarios on the balance between productivity and total greenhouse gas emissions from pasture based dairy systems in south-eastern Australia. <i>Animal Feed Science and Technology</i> , 2011, 166-167, 721-735.	2.2	20
71	Impacts of future climate scenarios on nitrous oxide emissions from pasture based dairy systems in south eastern Australia. <i>Animal Feed Science and Technology</i> , 2011, 166-167, 736-748.	2.2	21
72	Influence of cold-pressed canola, brewers grains and hominy meal as dietary supplements suitable for reducing enteric methane emissions from lactating dairy cows. <i>Animal Feed Science and Technology</i> , 2011, 166-167, 254-264.	2.2	113

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73	Background matters with the SF6 tracer method for estimating enteric methane emissions from dairy cows: A critical evaluation of the SF6 procedure. <i>Animal Feed Science and Technology</i> , 2011, 170, 265-276.	2.2	84
74	Simulation of N2O emissions from an irrigated dairy pasture treated with urea and urine in Southeastern Australia. <i>Agriculture, Ecosystems and Environment</i> , 2010, 136, 333-342.	5.3	8
75	Options for the abatement of methane and nitrous oxide from ruminant production: A review. <i>Livestock Science</i> , 2010, 130, 47-56.	1.6	449
76	Supplementation with whole cottonseed causes long-term reduction of methane emissions from lactating dairy cows offered a forage and cereal grain diet. <i>Journal of Dairy Science</i> , 2010, 93, 2612-2619.	3.4	65
77	A high dose of monensin does not reduce methane emissions of dairy cows offered pasture supplemented with grain. <i>Journal of Dairy Science</i> , 2010, 93, 5300-5308.	3.4	44
78	Simulation of N2O emissions from rain-fed wheat and the impact of climate variation in southeastern Australia. <i>Plant and Soil</i> , 2008, 309, 239-251.	3.7	29
79	Nitrous oxide and methane flux in Australian and New Zealand landscapes: measurements, modeling and mitigation. <i>Plant and Soil</i> , 2008, 309, 1-4.	3.7	1
80	Use of Monensin Controlled-Release Capsules to Reduce Methane Emissions and Improve Milk Production of Dairy Cows Offered Pasture Supplemented with Grain. <i>Journal of Dairy Science</i> , 2008, 91, 1159-1165.	3.4	50
81	Methane Emissions from Dairy Cows Measured Using the Sulfur Hexafluoride (SF6) Tracer and Chamber Techniques. <i>Journal of Dairy Science</i> , 2007, 90, 2755-2766.	3.4	204
82	Modelling nitrous oxide abatement strategies in intensive pasture systems. <i>International Congress Series</i> , 2006, 1293, 76-85.	0.2	24
83	A study of environmental and management drivers of non-CO2 greenhouse gas emissions in Australian agro-ecosystems. <i>Journal of Integrative Environmental Sciences</i> , 2005, 2, 133-142.	0.8	30
84	The relationship between the nitrogen and nitrate content and nitrate toxicity potential of <i>Lolium multiflorum</i> . <i>Journal of the Grassland Society of Southern Africa</i> , 1990, 7, 174-178.	0.4	20
85	The response of Italian ryegrass to applied nitrogen in the natal midlands. <i>Journal of the Grassland Society of Southern Africa</i> , 1989, 6, 19-22.	0.4	19