

# J B Gaughan

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82

papers

2,274

citations

28

h-index

46

g-index

93

ext. papers

2,783

ext. citations

2.1

avg, IF

5.24

L-index

#	Paper	IF	Citations
82	A new heat load index for feedlot cattle. <i>Journal of Animal Science</i> , <b>2008</b> , 86, 226-34	0.7	253
81	A comprehensive index for assessing environmental stress in animals. <i>Journal of Animal Science</i> , <b>2010</b> , 88, 2153-65	0.7	121
80	Review: Adaptation of animals to heat stress. <i>Animal</i> , <b>2018</b> , 12, s431-s444	3.1	117
79	Assessing the heat tolerance of 17 beef cattle genotypes. <i>International Journal of Biometeorology</i> , <b>2010</b> , 54, 617-27	3.7	109
78	Heat tolerance of Boran and Tuli crossbred steers. <i>Journal of Animal Science</i> , <b>1999</b> , 77, 2398-405	0.7	107
77	Livestock production in a changing climate: adaptation and mitigation research in Australia. <i>Crop and Pasture Science</i> , <b>2012</b> , 63, 191	2.2	95
76	PSII-4 Changes in body temperature of lot-fed <i>Bos taurus</i> and <i>Bos indicus</i> steers during a heat wave. <i>Journal of Animal Science</i> , <b>2019</b> , 97, 235-235	0.7	78
75	147 Changes in body temperature of lot-fed <i>Bos taurus</i> and <i>Bos indicus</i> steers during a heat wave. <i>Journal of Animal Science</i> , <b>2019</b> , 97, 150-150	0.7	78
74	Effect of shade on body temperature and performance of feedlot steers. <i>Journal of Animal Science</i> , <b>2010</b> , 88, 4056-67	0.7	77
73	Effects of chronic heat stress on plasma concentration of secreted heat shock protein 70 in growing feedlot cattle. <i>Journal of Animal Science</i> , <b>2013</b> , 91, 120-9	0.7	62
72	Shade and wind barrier effects on summertime feedlot cattle performance. <i>Journal of Animal Science</i> , <b>1999</b> , 77, 2065-72	0.7	60
71	Amelioration of thermal stress impacts in dairy cows. <i>Animal Production Science</i> , <b>2013</b> , 53, 965	1.4	57
70	Body temperature and respiratory dynamics in un-shaded beef cattle. <i>International Journal of Biometeorology</i> , <b>2014</b> , 58, 1443-50	3.7	49
69	Wind protection effects and airflow patterns in outside feedlots. <i>Journal of Animal Science</i> , <b>1997</b> , 75, 26-36	0.7	49
68	The Impact of Heat Load on Cattle. <i>Animals</i> , <b>2019</b> , 9,	3.1	47
67	Chapter 5: Thermal Indices and Their Applications for Livestock Environments <b>2009</b> , 113-130		47
66	Physiological responses of Australian Merino wethers exposed to high heat load. <i>Journal of Animal Science</i> , <b>2012</b> , 90, 212-20	0.7	44

65	Effect of shade area on performance and welfare of short-fed feedlot cattle. <i>Journal of Animal Science</i> , <b>2011</b> , 89, 2911-25	0.7	38
64	Feedlot Diet Roughage Level for Hereford Cattle Exposed to Excessive Heat Load <sup>1</sup> Published as paper no. 11901, Journal Series, Nebraska Agric. Res. Div., Univ. Of Nebraska, Lincoln 68583-0908.. <i>The Professional Animal Scientist</i> , <b>1999</b> , 15, 53-62		36
63	Effect of various doses of injected selenium on performance and physiological responses of sheep to heat load. <i>Journal of Animal Science</i> , <b>2012</b> , 90, 2988-94	0.7	35
62	Effect of heat stress on rumen temperature of three breeds of cattle. <i>International Journal of Biometeorology</i> , <b>2018</b> , 62, 207-215	3.7	33
61	Semen collection and seminal characteristics of the Australian saltwater crocodile ( <i>Crocodylus porosus</i> ). <i>Aquaculture</i> , <b>2014</b> , 422-423, 25-35	4.4	33
60	Extent and economic effect of heat loads on dairy cattle production in Australia. <i>Australian Veterinary Journal</i> , <b>1999</b> , 77, 804-8	1.2	32
59	Effect of sprinkling on feedlot microclimate and cattle behavior. <i>International Journal of Biometeorology</i> , <b>2007</b> , 51, 541-51	3.7	31
58	Effects of selenium and vitamin E on performance, physiological response, and selenium balance in heat-stressed sheep. <i>Journal of Animal Science</i> , <b>2015</b> , 93, 576-88	0.7	29
57	Tympanic temperature in confined beef cattle exposed to excessive heat load. <i>International Journal of Biometeorology</i> , <b>2010</b> , 54, 629-35	3.7	29
56	Wetting and the physiological responses of grain-fed cattle in a heated environment. <i>Australian Journal of Agricultural Research</i> , <b>2004</b> , 55, 253		29
55	Adaptation strategies: ruminants. <i>Animal Frontiers</i> , <b>2019</b> , 9, 47-53	5.5	29
54	Cooling and feeding strategies to reduce heat load of grain-fed beef cattle in intensive housing. <i>Livestock Science</i> , <b>2008</b> , 113, 226-233	1.7	27
53	Shade preferences of lactating Holstein - Friesian cows. <i>Australian Journal of Experimental Agriculture</i> , <b>1998</b> , 38, 17		27
52	Effect of body composition at selection on reproductive development in large white gilts. <i>Journal of Animal Science</i> , <b>1997</b> , 75, 1764-72	0.7	24
51	Effect of multiple environmental stressors on the adaptive capability of Malpura rams based on physiological responses in a semi-arid tropical environment. <i>Journal of Veterinary Behavior: Clinical Applications and Research</i> , <b>2017</b> , 17, 6-13	1.9	21
50	The physiological and behavioral responses of steers to gaseous ammonia in simulated long-distance transport by ship. <i>Journal of Animal Science</i> , <b>2010</b> , 88, 3579-89	0.7	21
49	Dietary betaine supplementation has energy-sparing effects in feedlot cattle during summer, particularly in those without access to shade. <i>Animal Production Science</i> , <b>2014</b> , 54, 450	1.4	19
48	Effects of sodium chloride and fat supplementation on finishing steers exposed to hot and cold conditions. <i>Journal of Animal Science</i> , <b>2009</b> , 87, 612-21	0.7	19

47	Effect of feeding slowly fermentable grains on productive variables and amelioration of heat stress in lactating dairy cows in a sub-tropical summer. <i>Tropical Animal Health and Production</i> , <b>2018</b> , 50, 1763-1769	1.7	18
46	Developing a heat load index for lactating dairy cows. <i>Animal Production Science</i> , <b>2018</b> , 58, 1387	1.4	16
45	Identifying Archetypes of an Enhanced System Dynamics Causal Loop Diagram in Pursuit of Strategies to Improve Smallholder Beef Farming in Java, Indonesia. <i>Systems Research and Behavioral Science</i> , <b>2014</b> , 31, 642-654	1.8	16
44	Feeding strategies for grain-fed cattle in a hot environment. <i>Australian Journal of Agricultural Research</i> , <b>2004</b> , 55, 719		16
43	Effect of selection for leanness on overall reproductive performance in Large White sows. <i>Animal Science</i> , <b>1995</b> , 61, 561-564		16
42	Heat Stress and Goat Welfare: Adaptation and Production Considerations. <i>Animals</i> , <b>2021</b> , 11,	3.1	16
41	Prediction models, assessment methodologies and biotechnological tools to quantify heat stress response in ruminant livestock. <i>International Journal of Biometeorology</i> , <b>2019</b> , 63, 1265-1281	3.7	15
40	Physiological and behavioral responses of sheep to gaseous ammonia. <i>Journal of Animal Science</i> , <b>2012</b> , 90, 1562-9	0.7	15
39	Modeling of Greenhouse Gas Emission from Livestock. <i>Frontiers in Environmental Science</i> , <b>2016</b> , 4,	4.8	14
38	Influence of shade on panting score and behavioural responses of Bos taurus and Bos indicus feedlot cattle to heat load. <i>Animal Production Science</i> , <b>2020</b> , 60, 305	1.4	12
37	Measurement of bovine body and scrotal temperature using implanted temperature sensitive radio transmitters, data loggers and infrared thermography. <i>International Journal of Biometeorology</i> , <b>2017</b> , 61, 1309-1321	3.7	10
36	Evaluating rumen temperature as an estimate of core body temperature in Angus feedlot cattle during summer. <i>International Journal of Biometeorology</i> , <b>2019</b> , 63, 939-947	3.7	10
35	Assessment of the carbon footprint of four commercial dairy production systems in Australia using an integrated farm system model. <i>Carbon Management</i> , <b>2018</b> , 9, 57-70	3.3	10
34	Short communication: using infrared thermography as an in situ measure of core body temperature in lot-fed Angus steers. <i>International Journal of Biometeorology</i> , <b>2018</b> , 62, 3-8	3.7	10
33	Rethinking Heat Index Tools for Livestock <b>2012</b> , 243-265		10
32	The effect of sodium chloride supplementation on the milk production of grazing Holstein Friesian cows during summer and autumn in a humid sub-tropical environment. <i>Animal Feed Science and Technology</i> , <b>2002</b> , 96, 147-160	3	10
31	A panting score index for sheep. <i>International Journal of Biometeorology</i> , <b>2019</b> , 63, 973-978	3.7	9
30	Heat load increases the risk of clinical mastitis in dairy cattle. <i>Journal of Dairy Science</i> , <b>2020</b> , 103, 8378-8387	1	8

29	Surgical implantation of temperature-sensitive transmitters and data-loggers to record body temperature in koalas ( <i>Phascolarctos cinereus</i> ). <i>Australian Veterinary Journal</i> , <b>2016</b> , 94, 42-7	1.2	8
28	Comparison of the impact of six heat-load management strategies on thermal responses and milk production of feed-pad and pasture fed dairy cows in a subtropical environment. <i>International Journal of Biometeorology</i> , <b>2016</b> , 60, 1961-1968	3.7	7
27	Biological role of melatonin during summer season related heat stress in livestock. <i>Biological Rhythm Research</i> , <b>2017</b> , 48, 297-314	0.8	6
26	Hormonal growth-promotant effects on grain-fed cattle maintained under different environments. <i>International Journal of Biometeorology</i> , <b>2005</b> , 49, 396-402	3.7	6
25	Basic Principles Involved in Adaption of Livestock to Climate Change <b>2012</b> , 245-261		6
24	Thermoregulation of the bovine scrotum 1: measurements of free-range animals in a paddock and pen. <i>International Journal of Biometeorology</i> , <b>2017</b> , 61, 1381-1387	3.7	5
23	Isolation of <i>Nocardia mexicana</i> from focal proliferative tenosynovitis and arthritis in a steer. <i>Australian Veterinary Journal</i> , <b>2015</b> , 93, 170-3	1.2	5
22	Characteristics of Cowsheds in Vietnamese Smallholder Dairy Farms and Their Associations with Microclimate-A Preliminary Study. <i>Animals</i> , <b>2021</b> , 11,	3.1	5
21	Biological functions as affected by summer season-related multiple environmental stressors (heat, nutritional and walking stress) in Malpura rams under semi-arid tropical environment. <i>Biological Rhythm Research</i> , <b>2017</b> , 48, 593-606	0.8	4
20	Behavioural effects of yearling grain-finished heifers exposed to differing environmental conditions and growth-promoting agents. <i>Australian Journal of Experimental Agriculture</i> , <b>2008</b> , 48, 1155		4
19	Sixty years of animal biometeorology. <i>International Journal of Biometeorology</i> , <b>2020</b> , 64, 157-163	3.7	4
18	Effect of feeding forage characteristic of wet- or dry-season tropical C4 grass in northern Australia, on methane production, intake and rumen outflow rates in <i>Bos indicus</i> steers. <i>Animal Production Science</i> , <b>2017</b> , 57, 2033	1.4	3
17	Body temperature of free-ranging koalas ( <i>Phascolarctos cinereus</i> ) in south-east Queensland. <i>International Journal of Biometeorology</i> , <b>2020</b> , 64, 1305-1318	3.7	3
16	The influence of heat load on Merino sheep. 2. Body temperature, wool surface temperature and respiratory dynamics. <i>Animal Production Science</i> , <b>2020</b> , 60, 1932	1.4	3
15	The Use of Percutaneous Thermal Sensing Microchips for Body Temperature Measurements in Horses Prior to, during and after Treadmill Exercise. <i>Animals</i> , <b>2020</b> , 10,	3.1	3
14	Growth Data of Broiler Chickens Fitted to Gompertz Function. <i>Asian-Australasian Journal of Animal Sciences</i> , <b>1999</b> , 12, 1177-1180	2.4	2
13	Opportunities, Challenges, and Ecological Footprint of Sustaining Small Ruminant Production in the Changing Climate Scenario <b>2021</b> , 365-396		1
12	Assessment of Performance and Some Welfare Indicators of Cows in Vietnamese Smallholder Dairy Farms. <i>Animals</i> , <b>2021</b> , 11,	3.1	1

11	1281 A rumen bolus is a useful tool to monitor core body temperature in lactating dairy cows in a sub-tropical summer. <i>Journal of Animal Science</i> , <b>2016</b> , 94, 618-618	0.7	1
10	Influence of feeding <i>Saccharomyces cerevisiae</i> on the heat load responses of lactating dairy cows during summer. <i>International Journal of Biometeorology</i> , <b>2021</b> , 1	3.7	1
9	The influence of shade availability on the effectiveness of the Dairy Heat Load Index (DHLI) to predict lactating cow behavior, physiology, and production traits. <i>International Journal of Biometeorology</i> , <b>2021</b> , 1	3.7	1
8	The influence of heat load on Merino sheep. 3. Cytokine and biochemistry profiles. <i>Animal Production Science</i> , <b>2020</b> , 60, 1940	1.4	0
7	Thermoregulation of the bovine scrotum 2: simulated acute and chronic heat waves reduces the scrotal thermoregulatory capability of Wagyu bulls. <i>International Journal of Biometeorology</i> , <b>2021</b> , 1	3.7	0
6	The Use of Percutaneous Thermal Sensing Microchips to Measure Body Temperature in Horses during and after Exercise Using Three Different Cool-Down Methods. <i>Animals</i> , <b>2022</b> , 12, 1267	3.1	0
5	505 Developing heat stress thresholds for sheep. <i>Journal of Animal Science</i> , <b>2017</b> , 95, 246-247	0.7	
4	The influence of heat load on Merino sheep. 1. Growth, performance, behaviour and climate. <i>Animal Production Science</i> , <b>2020</b> , 60, 1925	1.4	
3	Metabolic challenge: How does it affect welfare? <b>2018</b> , 227-240		
2	Applications of Infrared Thermal Imaging and Rumen Boluses for Quantifying Heat Stress in Cattle <b>2021</b> , 99-112		
1	Adaptation of Beef Cattle to Heat Stress Challenges <b>2021</b> , 29-38		