

# Jeremy J Cottrell

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

1,603  
citations

279798

23  
h-index

330143

37  
g-index

74  
all docs

74  
docs citations

74  
times ranked

1611  
citing authors

#	ARTICLE	IF	CITATIONS
1	Selenium and vitamin E together improve intestinal epithelial barrier function and alleviate oxidative stress in heat-stressed pigs. <i>Experimental Physiology</i> , 2016, 101, 801-810.	2.0	129
2	Acute stress induced by the preslaughter use of electric prodders causes tougher beef meat. <i>Australian Journal of Experimental Agriculture</i> , 2007, 47, 782.	1.0	88
3	Betaine and Antioxidants Improve Growth Performance, Breast Muscle Development and Ameliorate Thermoregulatory Responses to Cyclic Heat Exposure in Broiler Chickens. <i>Animals</i> , 2018, 8, 162.	2.3	68
4	Comprehensive Profiling of Most Widely Used Spices for Their Phenolic Compounds through LC-ESI-QTOF-MS2 and Their Antioxidant Potential. <i>Antioxidants</i> , 2021, 10, 721.	5.1	66
5	Glucagon-like peptide-2 acutely increases proximal small intestinal blood flow in TPN-fed neonatal piglets. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 290, R283-R289.	1.8	57
6	Intestinal Gas Capsules: A Proof-of-Concept Demonstration. <i>Gastroenterology</i> , 2016, 150, 37-39.	1.3	56
7	Growth Performance and Characterization of Meat Quality of Broiler Chickens Supplemented with Betaine and Antioxidants under Cyclic Heat Stress. <i>Antioxidants</i> , 2019, 8, 336.	5.1	50
8	Nutritional strategies to alleviate heat stress in pigs. <i>Animal Production Science</i> , 2015, 55, 1391.	1.3	49
9	Cinnamon: A Natural Feed Additive for Poultry Health and Production—A Review. <i>Animals</i> , 2021, 11, 2026.	2.3	48
10	Effects of nitric oxide and oxidation in vivo and postmortem on meat tenderness. <i>Meat Science</i> , 2005, 71, 205-217.	5.5	45
11	Gut Microbiota-Polyphenol Interactions in Chicken: A Review. <i>Animals</i> , 2020, 10, 1391.	2.3	45
12	Acute exercise stress and electrical stimulation influence the consumer perception of sheep meat eating quality and objective quality traits. <i>Australian Journal of Experimental Agriculture</i> , 2005, 45, 553.	1.0	43
13	LC-MS/MS-QTOF Screening and Identification of Phenolic Compounds from Australian Grown Herbs and Their Antioxidant Potential. <i>Antioxidants</i> , 2021, 10, 1770.	5.1	42
14	Glucagon-like peptide-2 protects against TPN-induced intestinal hexose malabsorption in enterally refeed piglets. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 290, G293-G300.	3.4	36
15	COMPARATIVE GUT PHYSIOLOGY SYMPOSIUM: Comparative physiology of digestion1. <i>Journal of Animal Science</i> , 2015, 93, 485-491.	0.5	36
16	Betaine Improves Milk Yield in Grazing Dairy Cows Supplemented with Concentrates at High Temperatures. <i>Animals</i> , 2019, 9, 57.	2.3	31
17	Dietary Betaine Improves Intestinal Barrier Function and Ameliorates the Impact of Heat Stress in Multiple Vital Organs as Measured by Evans Blue Dye in Broiler Chickens. <i>Animals</i> , 2020, 10, 38.	2.3	30
18	Potential of in vivo real-time gastric gas profiling: a pilot evaluation of heat-stress and modulating dietary cinnamon effect in an animal model. <i>Scientific Reports</i> , 2016, 6, 33387.	3.3	29

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19	Poorer lifetime growth performance of gilt progeny compared with sow progeny is largely due to weight differences at birth and reduced growth in the preweaning period, and is not improved by progeny segregation after weaning <sup>1</sup> . <i>Journal of Animal Science</i> , 2017, 95, 4904-4916.	0.5	29
20	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> , 2018, 50, 1763-1769.	1.4	28
21	LC-ESI/QTOF-MS Profiling of Chicory and Lucerne Polyphenols and Their Antioxidant Activities. <i>Antioxidants</i> , 2021, 10, 932.	5.1	27
22	Inhibition of nitric oxide release pre-slaughter increases post-mortem glycolysis and improves tenderness in ovine muscles. <i>Meat Science</i> , 2008, 80, 511-521.	5.5	26
23	Feeding slowly fermentable grains has the potential to ameliorate heat stress in grain-fed wethers <sup>1,2</sup> . <i>Journal of Animal Science</i> , 2016, 94, 2981-2991.	0.5	25
24	First-pass splanchnic metabolism of dietary cysteine in weanling pigs <sup>1</sup> . <i>Journal of Animal Science</i> , 2011, 89, 4093-4099.	0.5	24
25	Filling the out of season gaps for lamb and hogget production: Diet and genetic influence on carcass yield, carcass composition and retail value of meat. <i>Meat Science</i> , 2019, 148, 156-163.	5.5	24
26	Plant and Dairy-Based Yogurts: A Comparison of Consumer Sensory Acceptability Linked to Textural Analysis. <i>Foods</i> , 2022, 11, 463.	4.3	24
27	Dietary Phytochemicals Promote Health by Enhancing Antioxidant Defence in a Pig Model. <i>Nutrients</i> , 2017, 9, 758.	4.1	23
28	Effects of a short-term supranutritional selenium supplementation on redox balance, physiology and insulin-related metabolism in heat-stressed pigs. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2018, 102, 276-285.	2.2	23
29	Primiparous and Multiparous Sows Have Largely Similar Colostrum and Milk Composition Profiles Throughout Lactation. <i>Animals</i> , 2019, 9, 35.	2.3	23
30	Genes of the RNASE5 pathway contain SNP associated with milk production traits in dairy cattle. <i>Genetics Selection Evolution</i> , 2013, 45, 25.	3.0	21
31	Effects of infusing nitric oxide donors and inhibitors on plasma metabolites, muscle lactate production and meat quality in lambs fed a high quality roughage-based diet. <i>Meat Science</i> , 2015, 105, 8-15.	5.5	21
32	Effects of chromium supplementation on physiology, feed intake, and insulin related metabolism in growing pigs subjected to heat stress. <i>Translational Animal Science</i> , 2017, 1, 116-125.	1.1	21
33	Reducing rumen starch fermentation of wheat with three percent sodium hydroxide has the potential to ameliorate the effect of heat stress in grain-fed wethers <sup>1,2</sup> . <i>Journal of Animal Science</i> , 2017, 95, 5547-5562.	0.5	19
34	A Dietary Sugarcane-Derived Polyphenol Mix Reduces the Negative Effects of Cyclic Heat Exposure on Growth Performance, Blood Gas Status, and Meat Quality in Broiler Chickens. <i>Animals</i> , 2020, 10, 1158.	2.3	19
35	Betaine and Isoquinoline Alkaloids Protect against Heat Stress and Colonic Permeability in Growing Pigs. <i>Antioxidants</i> , 2020, 9, 1024.	5.1	19
36	Controlled elevated temperatures during early-mid gestation cause placental insufficiency and implications for fetal growth in pregnant pigs. <i>Scientific Reports</i> , 2020, 10, 20677.	3.3	18

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37	Effects of L-citrulline supplementation on heat stress physiology, lactation performance and subsequent reproductive performance of sows in summer. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2019, 103, 251-257.	2.2	16
38	Differences in Hedonic Responses, Facial Expressions and Self-Reported Emotions of Consumers Using Commercial Yogurts: A Cross-Cultural Study. <i>Foods</i> , 2021, 10, 1237.	4.3	16
39	Dietary Betaine Reduces the Negative Effects of Cyclic Heat Exposure on Growth Performance, Blood Gas Status and Meat Quality in Broiler Chickens. <i>Agriculture (Switzerland)</i> , 2020, 10, 176.	3.1	15
40	The Effect of Heat Stress on Respiratory Alkalosis and Insulin Sensitivity in Cinnamon Supplemented Pigs. <i>Animals</i> , 2020, 10, 690.	2.3	15
41	Maternal Heat Stress Alters Expression of Genes Associated with Nutrient Transport Activity and Metabolism in Female Placentae from Mid-Gestating Pigs. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4147.	4.1	14
42	Extraction and characterization of polyphenols from non-conventional edible plants and their antioxidant activities. <i>Food Research International</i> , 2022, 157, 111205.	6.2	14
43	The Greater Proportion of Born-Light Progeny from Sows Mated in Summer Contributes to Increased Carcass Fatness Observed in Spring. <i>Animals</i> , 2020, 10, 2080.	2.3	13
44	Functionality and genomics of selenium and vitamin E supplementation in ruminants. <i>Animal Production Science</i> , 2016, 56, 1285.	1.3	12
45	Supplementation of selenium, vitamin E, chromium and betaine above recommended levels improves lactating performance of sows over summer. <i>Tropical Animal Health and Production</i> , 2017, 49, 1461-1469.	1.4	11
46	A comparison of the anatomical and gastrointestinal functional development between gilt and sow progeny around birth and weaning. <i>Journal of Animal Science</i> , 2019, 97, 3809-3822.	0.5	10
47	Effect of a polyphenol-rich plant matrix on colonic digestion and plasma antioxidant capacity in a porcine model. <i>Journal of Functional Foods</i> , 2019, 57, 211-221.	3.4	10
48	Application of small angle X-ray scattering synchrotron technology for measuring ovine meat quality. <i>Meat Science</i> , 2016, 117, 122-129.	5.5	9
49	Recent advances in the use of phytochemicals to manage gastrointestinal oxidative stress in poultry and pigs. <i>Animal Production Science</i> , 2021, , .	1.3	9
50	Inhibition of endogenous nitric oxide production influences ovine hindlimb metabolism independently of insulin concentrations. <i>Journal of Animal Science</i> , 2004, 82, 2558-2567.	0.5	7
51	A short-term supranutritional vitamin E supplementation alleviated respiratory alkalosis but did not reduce oxidative stress in heat stressed pigs. <i>Asian-Australasian Journal of Animal Sciences</i> , 2018, 31, 263-269.	2.4	7
52	Reducing the Fermentability of Wheat with a Starch Binding Agent Reduces Some of the Negative Effects of Heat Stress in Sheep. <i>Animals</i> , 2022, 12, 1396.	2.3	7
53	Signalling from the gut lumen. <i>Animal Production Science</i> , 2017, 57, 2175.	1.3	6
54	Feeding Conjugated Linoleic Acid without a Combination of Medium-Chain Fatty Acids during Late Gestation and Lactation Improves Pre-Weaning Survival Rates of Gilt and Sow Progeny. <i>Animals</i> , 2019, 9, 62.	2.3	6

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55	Evaluation of Sugarcane-Derived Polyphenols on the Pre-Weaning and Post-Weaning Growth of Gilt Progeny. <i>Animals</i> , 2020, 10, 984.	2.3	6
56	Towards Sustainable Livestock Production: Estimation of Methane Emissions and Dietary Interventions for Mitigation. <i>Sustainability</i> , 2021, 13, 6081.	3.2	6
57	Milk-derived ribonuclease 5 preparations induce myogenic differentiation in vitro and muscle growth in vivo. <i>Journal of Dairy Science</i> , 2014, 97, 7325-7333.	3.4	5
58	Dietary Inclusion of 1,3-Butanediol Increases Dam Circulating Ketones and Increases Progeny Birth Weight. <i>Animals</i> , 2019, 9, 479.	2.3	4
59	Digital technologies to assess yoghurt quality traits and consumers acceptability. <i>Journal of the Science of Food and Agriculture</i> , 2022, 102, 5642-5652.	3.5	4
60	PSIV-8 Effect of selenium and superoxide dismutase supplementation on heat stressed pigs. <i>Journal of Animal Science</i> , 2019, 97, 179-179.	0.5	3
61	Reduced growth performance in gilt progeny is not improved by segregation from sow progeny in the growerâ€™ finisher phase. <i>Animal</i> , 2019, 13, 2232-2241.	3.3	3
62	Compensatory feeding during early gestation for sows with a high weight loss after a summer lactation increased piglet birth weight but reduced litter size. <i>Journal of Animal Science</i> , 2021, 99, .	0.5	3
63	Assessment of Feed Value of Chicory and Lucerne for Poultry, Determination of Bioaccessibility of Their Polyphenols and Their Effects on Caecal Microbiota. <i>Fermentation</i> , 2022, 8, 237.	3.0	3
64	Overview: Antioxidants: A â€™Higgs Bosonâ€™ in Animal Health and Production. <i>Clinical Immunology, Endocrine and Metabolic Drugs</i> , 2015, 2, 6-7.	0.3	2
65	Sa1441 Gas Sensor Capsules: A New Paradigm in Gastroenterology for Assessing Functional Roles of the Gut Microbiota. <i>Gastroenterology</i> , 2016, 150, S316-S317.	1.3	1
66	193 Characterisation of poor gastrointestinal tract development in gilt progeny. <i>Journal of Animal Science</i> , 2019, 97, 113-113.	0.5	1
67	Feeding Sows Lucerne, or Diets with Similar Energy and Nutritional Profiles to Lucerne, Improves the Pre-Weaning Performance of Piglets. <i>Agriculture (Switzerland)</i> , 2021, 11, 1146.	3.1	1
68	Gestational heat stress alters skeletal muscle gene expression profiles and vascularity in fetal pigs in a sexually dimorphic manner. <i>Journal of Animal Science and Biotechnology</i> , 2022, 13, .	5.3	1
69	1031 Threats to gut health in production animals. <i>Journal of Animal Science</i> , 2016, 94, 494-494.	0.5	0
70	Spray-dried porcine and bovine plasma are equally efficacious and superior than ovine plasma when fed to newly weaned pigs. <i>Animal Production Science</i> , 2015, 55, 1544.	1.3	0
71	Vitamin E but not selenium alleviates heat stress compromised metabolism in growing pigs. <i>Animal Production Science</i> , 2015, 55, 1536.	1.3	0
72	Pre-weaning growth of gilt and sow progeny is not improved by feeding conjugated linoleic acid and medium chain fatty acids during gestation. <i>Animal Production Science</i> , 2017, 57, 2452.	1.3	0

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73	Nutritional Amelioration of Thermal Stress Impacts in Dairy Cows. , 2021, , 141-150.		0