Tami M Brown-Brandl

List of Publications by Year
in descending order

107 papers	2,319 citations	201575 27 h-index	243529 44 g-index
107 all docs	107 docs citations	107 times ranked	1867 citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Response Indicators of Heat Stress in Shaded and Non-shaded Feedlot Cattle, Part 1: Analyses of Indicators. Biosystems Engineering, 2005, 90, 451-462.	1.9	186
2	Dynamic Response Indicators of Heat Stress in Shaded and Non-shaded Feedlot Cattle, Part 2: Predictive Relationships. Biosystems Engineering, 2005, 91, 111-118.	1.9	128
3	Heat stress risk factors of feedlot heifers. Livestock Science, 2006, 105, 57-68.	0.6	102
4	Thermoregulatory responses of feeder cattle. Journal of Thermal Biology, 2003, 28, 149-157.	1.1	88
5	Thermoregulatory profile of a newer genetic line of pigs. Livestock Science, 2001, 71, 253-260.	1.2	87
6	Automatic recognition of lactating sow behaviors through depth image processing. Computers and Electronics in Agriculture, 2016, 125, 56-62.	3.7	86
7	Comparison of heat tolerance of feedlot heifers of different breeds. Livestock Science, 2006, 105, 19-26.	0.6	70
8	Analysis of feeding behavior of group housed growing–finishing pigs. Computers and Electronics in Agriculture, 2013, 96, 246-252.	3.7	61
9	Sweating Rates of Dairy Cows and Beef Heifers in Hot Conditions. Transactions of the ASABE, 2008, 51, 2167-2178.	1.1	58
10	Partitioning of energy during lactation of primiparous beef cows1. Journal of Animal Science, 2006, 84, 2157-2162.	0.2	55
11	Evaluation of low-cost depth cameras for agricultural applications. Computers and Electronics in Agriculture, 2020, 173, 105394.	3.7	55
12	Evaluating Modelling Techniques for Cattle Heat Stress Prediction. Biosystems Engineering, 2005, 91, 513-524.	1.9	53
13	Differential Effects of Heat Stress in Three Strains of Laying Hens. Journal of Applied Poultry Research, 2007, 16, 628-634.	0.6	53
14	Effects of decreased dietary roughage concentration on energy metabolism and nutrient balance in finishing beef cattle1. Journal of Animal Science, 2014, 92, 264-271.	0.2	53
15	Vulnerability of grazing and confined livestock in the Northern Great Plains to projected mid- and late-twenty-first century climate. Climatic Change, 2018, 146, 19-32.	1.7	52
16	Understanding heat stress in beef cattle. Revista Brasileira De Zootecnia, 2018, 47, .	0.3	47
17	Analyses of thermoregulatory responses of feeder cattle exposed to simulated heat waves. International Journal of Biometeorology, 2005, 49, 285-296.	1.3	44
18	Evaluation of a depth sensor for mass estimation of growing and finishing pigs. Biosystems Engineering, 2018, 173, 11-18.	1.9	43

#	Article	IF	Citations
19	A defect in dystrophin causes a novel porcine stress syndrome. BMC Genomics, 2012, 13, 233.	1.2	39
20	Proportion of the litter farrowed, litter size, and progesterone and estradiol effects on piglet birth intervals and stillbirths. Animal Reproduction Science, 2010, 119, 68-75.	0.5	37
21	Using thermal imaging as a method of investigating thermal thresholds in finishing pigs. Biosystems Engineering, 2013, 114, 327-333.	1.9	37
22	Partitioning of energy in pregnant beef cows during nutritionally induced body weight fluctuation[1,2]. Journal of Animal Science, 2008, 86, 370-377.	0.2	35
23	Genome-wide association of changes in swine feeding behaviour due to heat stress. Genetics Selection Evolution, 2018, 50, 11.	1.2	35
24	Enteric methane production from beef cattle that vary in feed efficiency[123]. Journal of Animal Science, 2013, 91, 4826-4831.	0.2	33
25	Development and application of an image acquisition system for characterizing sow behaviors in farrowing stalls. Computers and Electronics in Agriculture, 2019, 163, 104866.	3.7	32
26	Effects of shade and feeding zilpaterol hydrochloride to finishing steers on performance, carcass quality, heat stress, mobility, and body temperature[1]. Journal of Animal Science, 2015, 93, 5801-5811.	0.2	31
27	Genetic analysis of behavior traits in swine production. Livestock Science, 2013, 157, 28-37.	0.6	30
28	Quantifying detection performance of a passive low-frequency RFID system in an environmental preference chamber for laying hens. Computers and Electronics in Agriculture, 2015, 114, 261-268.	3.7	30
29	Estimates of genetic parameters among scale activity scores, growth, and fatness in pigs[1,2]. Journal of Animal Science, 2010, 88, 455-459.	0.2	28
30	Energy content of reduced-fat dried distillers grains with solubles for lactating dairy cows. Journal of Dairy Science, 2015, 98, 7142-7152.	1.4	28
31	Sensors for dynamic physiological measurements. Computers and Electronics in Agriculture, 2008, 62, 41-47.	3.7	25
32	Effects of dietary glycerin inclusion at 0, 5, 10, and 15 percent of dry matter on energy metabolism and nutrient balance in finishing beef steers[1]. Journal of Animal Science, 2015, 93, 348-356.	0.2	25
33	Feed-forward and generalised regression neural networks in modelling feeding behaviour of pigs in the grow-finish phase. Biosystems Engineering, 2018, 173, 124-133.	1.9	24
34	Water spray cooling during handling of feedlot cattle. International Journal of Biometeorology, 2010, 54, 609-616.	1.3	22
35	Development of a Livestock Feeding Behavior Monitoring System. Transactions of the ASABE, 2011, 54, 1913-1920.	1.1	22
36	Genomewide association analysis for average birth interval and stillbirth in swine[12]. Journal of Animal Science, 2015, 93, 529-540.	0.2	22

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37	Physiological responses of tom turkeys to temperature and humidity change with age. Journal of Thermal Biology, 1997, 22, 43-52.	1.1	20
38	Soil versus Pond Ash Surfacing of Feedlot Pens: Occurrence of Escherichia coli O157:H7 in Cattle and Persistence in Manure. Journal of Food Protection, 2010, 73, 1269-1277.	0.8	19
39	The effects of feeding increasing concentrations of corn oil on energy metabolism and nutrient balance in finishing beef steers1. Journal of Animal Science, 2017, 95, 939-948.	0.2	19
40	Thermal equilibrium of Nellore cattle in tropical conditions: an investigation of circadian pattern. Journal of Thermal Biology, 2018, 74, 317-324.	1.1	19
41	Dimensions of the Modern Pig. Transactions of the ASABE, 2018, 61, 1729-1739.	1.1	19
42	Relationships among heat production, body weight, and age in Finnsheep and Rambouillet ewes2. Journal of Animal Science, 2002, 80, 825-832.	0.2	18
43	Body Temperature and Behavioral Activities of Four Breeds of Heifers in Shade and Full Sun. Applied Engineering in Agriculture, 2011, 27, 999-1006.	0.3	18
44	Methane production and methanogen levels in steers that differ in residual gain123. Journal of Animal Science, 2015, 93, 2375-2381.	0.2	18
45	Physiological responses of feedlot heifers provided access to different levels of shade. Animal, 2017, 11, 1344-1353.	1.3	17
46	Energy balance and diurnal variation in methane production as affected by feeding frequency in Jersey cows in late lactation. Journal of Dairy Science, 2018, 101, 10899-10910.	1.4	16
47	Feeding behavior of grow-finish swine and the impacts of heat stress. Translational Animal Science, 2020, 4, 986-992.	0.4	15
48	Impacts of Individual Animal Response to Heat and Handling Stresses on *Escherichia coli* and *E. coli* O157:H7 Fecal Shedding by Feedlot Cattle. Foodborne Pathogens and Disease, 2009, 6, 855-864.	0.8	14
49	Effect of Bedding Materials on Concentration of Odorous Compounds and *Escherichia coli* in Beef Cattle Bedded Manure Packs. Journal of Environmental Quality, 2013, 42, 65-75.	1.0	14
50	Effects of feeding dry-rolled corn-based diets with and without wet distillers grains with solubles and zilpaterol hydrochloride on performance, carcass characteristics, and heat stress in finishing beef steers1. Journal of Animal Science, 2014, 92, 4023-4033.	0.2	13
51	The influence of fat and hemicellulose on methane production and energy utilization in lactating Jersey cattle. Journal of Dairy Science, 2018, 101, 7892-7906.	1.4	13
52	Reducing methane production with corn oil and calcium sulfate: Responses on whole-animal energy and nitrogen balance in dairy cattle. Journal of Dairy Science, 2019, 102, 2054-2067.	1.4	13
53	Shade material evaluation using a cattle response model and meteorological instrumentation. International Journal of Biometeorology, 2010, 54, 509-515.	1.3	11
54	Effects of dry-rolled or high-moisture corn with twenty-five or forty-five percent wet distillers' grains with solubles on energy metabolism, nutrient digestibility, and macromineral balance in finishing beef steers1. Journal of Animal Science, 2015, 93, 4995-5005.	0.2	11

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55	Effects of feeding monensin to bred heifers fed in a drylot on nutrient and energy balance. Journal of Animal Science, 2018, 96, 1171-1180.	0.2	11
56	Effects of Farrowing Stall Layout and Number of Heat Lamps on Sow and Piglet Production Performance. Animals, 2020, 10, 348.	1.0	10
57	Shade material evaluation using a cattle response model and meteorological instrumentation. International Journal of Biometeorology, 2010, 54, 601-607.	1.3	9
58	Surface Application of Soybean Peroxidase and Calcium Peroxide for Reducing Odorous VOC Emissions from Swine Manure Slurry. Applied Engineering in Agriculture, 2016, 32, 389-398.	0.3	9
59	Use of indirect calorimetry to evaluate utilization of energy in lactating Jersey dairy cattle consuming common coproducts. Journal of Dairy Science, 2019, 102, 320-333.	1.4	9
60	Genetic parameter estimates among scale activity score and farrowing disposition with reproductive traits in swine1,2. Journal of Animal Science, 2011, 89, 3514-3521.	0.2	8
61	Use of Wood-Based Materials in Beef Bedded Manure Packs: 2. Effect on Odorous Volatile Organic Compounds, Odor Activity Value,<i>Escherichia coli</i>, and Nutrient Concentrations. Journal of Environmental Quality, 2014, 43, 1195-1206.	1.0	8
62	The effects of the forage-to-concentrate ratio on the conversion of digestible energy to metabolizable energy in growing beef steers. Journal of Animal Science, 2020, 98, .	0.2	8
63	Shade material evaluation using a cattle response model and meteorological instrumentation. International Journal of Biometeorology, 2009, 53, 501-507.	1.3	6
64	Determining Heat Tolerance in Finishing Pigs Using Thermal Imaging. , 2012, , .		6
65	Use of Wood-Based Materials in Beef Bedded Manure Packs: 1. Effect on Ammonia, Total Reduced Sulfide, and Greenhouse Gas Concentrations. Journal of Environmental Quality, 2014, 43, 1187-1194.	1.0	6
66	Effects of farrowing stall layout and number of heat lamps on sow and piglet behavior. Applied Animal Behaviour Science, 2021, 239, 105334.	0.8	6
67	Feedlot Cattle Susceptibility to Heat Stress: An Animal-Specific Model. Transactions of the ASABE, 2011, 54, 583-598.	1.1	5
68	Plasma concentrations of acyl-ghrelin are associated with average daily gain and feeding behavior in grow-finish pigs. Domestic Animal Endocrinology, 2016, 55, 107-113.	0.8	5
69	Increasing the concentration of linolenic acid in diets fed to Jersey cows in late lactation does not affect methane production. Journal of Dairy Science, 2019, 102, 2085-2093.	1.4	5
70	Factors that affect heat production in lactating Jersey cows. Journal of Dairy Science, 2021, 104, 346-356.	1.4	5
71	Shade Structure Design and Evaluation. , 2013, , .		4
72	Determination of Minimum Meal Interval and Analysis of Feeding Behavior in Shaded and Open-Lot Feedlot Heifers. Transactions of the ASABE, 2015, 58, 1833-1839.	1.1	4

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73	Development and Characterization of a Continuous Tympanic Temperature Logging (CTTL) Probe for Bovine Animals. Transactions of the ASABE, 2016, 59, 703-714.	1.1	4
74	Ammonia, Total Reduced Sulfides, and Greenhouse Gases of Pine Chip and Corn Stover Bedding Packs. Journal of Environmental Quality, 2016, 45, 630-637.	1.0	4
75	Evaluating Ventilation Rates Based on New Heat and Moisture Production Data for Swine Production. Transactions of the ASABE, 2017, 60, 237-245.	1.1	4
76	Evaluating a New Shade for Feedlot Cattle Performance and Heat Stress. Transactions of the ASABE, 2017, 60, 1301-1311.	1.1	4
77	Chapter 6: Instrumentation for Research and Management in Animal Agriculture. , 2009, , 131-149.		3
78	Benefits of Providing Shade to Feedlot Cattle of Different Breeds. Transactions of the ASABE, 2013, , 1563-1570.	1.1	3
79	Sow lying behaviors before, during and after farrowing. , 2016, , .		3
80	Odorous Volatile Organic Compounds, <i>Escherichia coli</i>, and Nutrient Concentrations when Kilnâ€Dried Pine Chips and Corn Stover Bedding Are Used in Beef Bedded Manure Packs. Journal of Environmental Quality, 2017, 46, 722-732.	1.0	3
81	Summer Heat Waves - Extreme Years. , 2007, , .		2
82	Shade Material Evaluation Using a Cattle Response Model. , 2007, , .		2
83	Analysis of Meteorological Parameters of Different Extreme Heat Waves. , 2008, , .		2
84	Managing thermal stress in feedlot cattle: environment, animal susceptibility and management options from a US perspective. , 2013, , 189-208.		2
85	Characterizing Feedlot Heifer Response to Environmental Temperature. Transactions of the ASABE, 2016, 59, 673-680.	1.1	2
86	1 Using RFID in Animal Management and More. Journal of Animal Science, 2019, 97, 1-2.	0.2	2
87	Effects of diet type on nutrient utilization and energy balance in drylot heifers1. Journal of Animal Science, 2020, 98, .	0.2	2
88	Sweating Rates of Dairy and Feedlot Cows under Stressful Thermal Environments. , 2008, , .		1
89	The impact of stress level on fecal bacteria and pathogen shedding in feedlot cattle. , 2008, , .		1
90	Foreword to special issue LeRoy Hahn. International Journal of Biometeorology, 2010, 54, 599-599.	1.3	1

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91	Heat and Moisture Production of Growing-Finishing Gilts as Affected by Environmental Temperature. , 2011, , .		1
92	Shade Material Evaluation Based on Physiological Response of Cattle. , 2011, , .		1
93	Effect of Bedding Material on Air Quality of Bedded Manure Packs in Livestock Facilities. , 2012, , .		1
94	Heat Production of Nursery and Growing Piglets. , 2013, , .		1
95	Comparing Piecewise Regression and Hysteresis Models in Assessing Beef Cattle Heat Stress. Transactions of the ASABE, 2019, 62, 549-559.	1.1	1
96	Static and Dynamic Space Usage of Late-Gestation Sows. Transactions of the ASABE, 2021, 64, 151-159.	1.1	1
97	Deep learning-based model classifies thermal conditions in dairy cows using infrared thermography. Biosystems Engineering, 2022, 221, 154-163.	1.9	1
98	Climate Conditions in Bedded Confinement Buildings. , 2008, , .		0
99	Effectiveness of Different Shade Materials. , 2008, , .		0
100	Using Experts to Validate an Animal Specific Heat Stress Model for Feedlot Cattle. , 2009, , .		0
101	Effects of zilpaterol hydrochloride on methane production, total body oxygen consumption, and blood metabolites in finishing beef steers1. Journal of Animal Science, 2017, 95, 3192-3197.	0.2	0
102	&lt;i&gt;An Image Acquisition System for Studying Behaviors of Sows and Piglets in Farrowing Barns&lt;/i&gt;. , 2018, , .		0
103	<i>Characterization of a machine vision system to assess gestating sow space usage</i>. , 2019, , .		0
104	217 Influence of daily temperature fluctuations on estrus activity determined by an electronic estrus detection system and conception to artificial insemination in cross-bred beef heifers. Journal of Animal Science, 2019, 97, 125-126.	0.2	0
105	<i>Development of method for lameness detection based on depth image analysis</i>. , 2020, , .		0
106	Water Spray Cooling During Handling of Feedlot Cattle. , 2009, , .		0
107	123 Precision Animal Management â€" The Future of Animal Ag?. Journal of Animal Science, 2020, 98, 123-123.	0.2	0