

Tami M Brown-Brandl

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Deep learning-based model classifies thermal conditions in dairy cows using infrared thermography. <i>Biosystems Engineering</i> , 2022, 221, 154-163. | 1.9 | 1 |
| 2 | Factors that affect heat production in lactating Jersey cows. <i>Journal of Dairy Science</i> , 2021, 104, 346-356. | 1.4 | 5 |
| 3 | Static and Dynamic Space Usage of Late-Gestation Sows. <i>Transactions of the ASABE</i> , 2021, 64, 151-159. | 1.1 | 1 |
| 4 | Effects of farrowing stall layout and number of heat lamps on sow and piglet behavior. <i>Applied Animal Behaviour Science</i> , 2021, 239, 105334. | 0.8 | 6 |
| 5 | The effects of the forage-to-concentrate ratio on the conversion of digestible energy to metabolizable energy in growing beef steers. <i>Journal of Animal Science</i> , 2020, 98, . | 0.2 | 8 |
| 6 | <i></i>Development of method for lameness detection based on depth image analysis<i></i>. , 2020, , . | | 0 |
| 7 | Feeding behavior of grow-finish swine and the impacts of heat stress. <i>Translational Animal Science</i> , 2020, 4, 986-992. | 0.4 | 15 |
| 8 | Effects of Farrowing Stall Layout and Number of Heat Lamps on Sow and Piglet Production Performance. <i>Animals</i> , 2020, 10, 348. | 1.0 | 10 |
| 9 | Effects of diet type on nutrient utilization and energy balance in drylot heifers1. <i>Journal of Animal Science</i> , 2020, 98, . | 0.2 | 2 |
| 10 | Evaluation of low-cost depth cameras for agricultural applications. <i>Computers and Electronics in Agriculture</i> , 2020, 173, 105394. | 3.7 | 55 |
| 11 | 123 Precision Animal Management â€œ The Future of Animal Ag?. <i>Journal of Animal Science</i> , 2020, 98, 123-123. | 0.2 | 0 |
| 12 | Development and application of an image acquisition system for characterizing sow behaviors in farrowing stalls. <i>Computers and Electronics in Agriculture</i> , 2019, 163, 104866. | 3.7 | 32 |
| 13 | 1 Using RFID in Animal Management and More. <i>Journal of Animal Science</i> , 2019, 97, 1-2. | 0.2 | 2 |
| 14 | Comparing Piecewise Regression and Hysteresis Models in Assessing Beef Cattle Heat Stress. <i>Transactions of the ASABE</i> , 2019, 62, 549-559. | 1.1 | 1 |
| 15 | <i></i>Characterization of a machine vision system to assess gestating sow space usage<i></i>. , 2019, , . | | 0 |
| 16 | 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. <i>Journal of Animal Science</i> , 2019, 97, 125-126. | 0.2 | 0 |
| 17 | Increasing the concentration of linolenic acid in diets fed to Jersey cows in late lactation does not affect methane production. <i>Journal of Dairy Science</i> , 2019, 102, 2085-2093. | 1.4 | 5 |
| 18 | Reducing methane production with corn oil and calcium sulfate: Responses on whole-animal energy and nitrogen balance in dairy cattle. <i>Journal of Dairy Science</i> , 2019, 102, 2054-2067. | 1.4 | 13 |

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|----|--|-----|-----------|
| 19 | Use of indirect calorimetry to evaluate utilization of energy in lactating Jersey dairy cattle consuming common coproducts. <i>Journal of Dairy Science</i> , 2019, 102, 320-333. | 1.4 | 9 |
| 20 | Feed-forward and generalised regression neural networks in modelling feeding behaviour of pigs in the grow-finish phase. <i>Biosystems Engineering</i> , 2018, 173, 124-133. | 1.9 | 24 |
| 21 | Evaluation of a depth sensor for mass estimation of growing and finishing pigs. <i>Biosystems Engineering</i> , 2018, 173, 11-18. | 1.9 | 43 |
| 22 | Genome-wide association of changes in swine feeding behaviour due to heat stress. <i>Genetics Selection Evolution</i> , 2018, 50, 11. | 1.2 | 35 |
| 23 | Thermal equilibrium of Nelore cattle in tropical conditions: an investigation of circadian pattern. <i>Journal of Thermal Biology</i> , 2018, 74, 317-324. | 1.1 | 19 |
| 24 | Vulnerability of grazing and confined livestock in the Northern Great Plains to projected mid- and late-twenty-first century climate. <i>Climatic Change</i> , 2018, 146, 19-32. | 1.7 | 52 |
| 25 | Understanding heat stress in beef cattle. <i>Revista Brasileira De Zootecnia</i> , 2018, 47, . | 0.3 | 47 |
| 26 | Dimensions of the Modern Pig. <i>Transactions of the ASABE</i> , 2018, 61, 1729-1739. | 1.1 | 19 |
| 27 | Energy balance and diurnal variation in methane production as affected by feeding frequency in Jersey cows in late lactation. <i>Journal of Dairy Science</i> , 2018, 101, 10899-10910. | 1.4 | 16 |
| 28 | <i><i>An Image Acquisition System for Studying Behaviors of Sows and Piglets in Farrowing Barns</i>. , 2018, , . | | 0 |
| 29 | Effects of feeding monensin to bred heifers fed in a drylot on nutrient and energy balance. <i>Journal of Animal Science</i> , 2018, 96, 1171-1180. | 0.2 | 11 |
| 30 | The influence of fat and hemicellulose on methane production and energy utilization in lactating Jersey cattle. <i>Journal of Dairy Science</i> , 2018, 101, 7892-7906. | 1.4 | 13 |
| 31 | Physiological responses of feedlot heifers provided access to different levels of shade. <i>Animal</i> , 2017, 11, 1344-1353. | 1.3 | 17 |
| 32 | Evaluating Ventilation Rates Based on New Heat and Moisture Production Data for Swine Production. <i>Transactions of the ASABE</i> , 2017, 60, 237-245. | 1.1 | 4 |
| 33 | Odorous Volatile Organic Compounds, <i>Escherichia coli</i>, and Nutrient Concentrations when Kiln-Dried Pine Chips and Corn Stover Bedding Are Used in Beef Bedded Manure Packs. <i>Journal of Environmental Quality</i> , 2017, 46, 722-732. | 1.0 | 3 |
| 34 | Effects of zilpaterol hydrochloride on methane production, total body oxygen consumption, and blood metabolites in finishing beef steers1. <i>Journal of Animal Science</i> , 2017, 95, 3192-3197. | 0.2 | 0 |
| 35 | The effects of feeding increasing concentrations of corn oil on energy metabolism and nutrient balance in finishing beef steers1. <i>Journal of Animal Science</i> , 2017, 95, 939-948. | 0.2 | 19 |
| 36 | Evaluating a New Shade for Feedlot Cattle Performance and Heat Stress. <i>Transactions of the ASABE</i> , 2017, 60, 1301-1311. | 1.1 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Sow lying behaviors before, during and after farrowing. , 2016, , . | | 3 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | Characterizing Feedlot Heifer Response to Environmental Temperature. Transactions of the ASABE, 2016, 59, 673-680. | 1.1 | 2 |
| 42 | Automatic recognition of lactating sow behaviors through depth image processing. Computers and Electronics in Agriculture, 2016, 125, 56-62. | 3.7 | 86 |
| 43 | 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 |
| 44 | Methane production and methanogen levels in steers that differ in residual gain ¹²³ . Journal of Animal Science, 2015, 93, 2375-2381. | 0.2 | 18 |
| 45 | 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 |
| 46 | 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 steers ¹ . Journal of Animal Science, 2015, 93, 4995-5005. | 0.2 | 11 |
| 47 | 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 |
| 48 | Genomewide association analysis for average birth interval and stillbirth in swine ¹² . Journal of Animal Science, 2015, 93, 529-540. | 0.2 | 22 |
| 49 | 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 |
| 50 | 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 |
| 51 | 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 |
| 52 | 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 |
| 53 | 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 steers ¹ . Journal of Animal Science, 2014, 92, 4023-4033. | 0.2 | 13 |
| 54 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Effects of decreased dietary roughage concentration on energy metabolism and nutrient balance in finishing beef cattle ¹ . <i>Journal of Animal Science</i> , 2014, 92, 264-271. | 0.2 | 53 |
| 56 | Analysis of feeding behavior of group housed growingâfinishing pigs. <i>Computers and Electronics in Agriculture</i> , 2013, 96, 246-252. | 3.7 | 61 |
| 57 | Using thermal imaging as a method of investigating thermal thresholds in finishing pigs. <i>Biosystems Engineering</i> , 2013, 114, 327-333. | 1.9 | 37 |
| 58 | Genetic analysis of behavior traits in swine production. <i>Livestock Science</i> , 2013, 157, 28-37. | 0.6 | 30 |
| 59 | Managing thermal stress in feedlot cattle: environment, animal susceptibility and management options from a US perspective. , 2013, , 189-208. | | 2 |
| 60 | Enteric methane production from beef cattle that vary in feed efficiency ¹²³ . <i>Journal of Animal Science</i> , 2013, 91, 4826-4831. | 0.2 | 33 |
| 61 | Effect of Bedding Materials on Concentration of Odorous Compounds and <i>Escherichia coli</i> in Beef Cattle Bedded Manure Packs. <i>Journal of Environmental Quality</i> , 2013, 42, 65-75. | 1.0 | 14 |
| 62 | Benefits of Providing Shade to Feedlot Cattle of Different Breeds. <i>Transactions of the ASABE</i> , 2013, , 1563-1570. | 1.1 | 3 |
| 63 | Shade Structure Design and Evaluation. , 2013, , . | | 4 |
| 64 | Heat Production of Nursery and Growing Piglets. , 2013, , . | | 1 |
| 65 | A defect in dystrophin causes a novel porcine stress syndrome. <i>BMC Genomics</i> , 2012, 13, 233. | 1.2 | 39 |
| 66 | Effect of Bedding Material on Air Quality of Bedded Manure Packs in Livestock Facilities. , 2012, , . | | 1 |
| 67 | Determining Heat Tolerance in Finishing Pigs Using Thermal Imaging. , 2012, , . | | 6 |
| 68 | Heat and Moisture Production of Growing-Finishing Gilts as Affected by Environmental Temperature. , 2011, , . | | 1 |
| 69 | Body Temperature and Behavioral Activities of Four Breeds of Heifers in Shade and Full Sun. <i>Applied Engineering in Agriculture</i> , 2011, 27, 999-1006. | 0.3 | 18 |
| 70 | Feedlot Cattle Susceptibility to Heat Stress: An Animal-Specific Model. <i>Transactions of the ASABE</i> , 2011, 54, 583-598. | 1.1 | 5 |
| 71 | Development of a Livestock Feeding Behavior Monitoring System. <i>Transactions of the ASABE</i> , 2011, 54, 1913-1920. | 1.1 | 22 |
| 72 | Shade Material Evaluation Based on Physiological Response of Cattle. , 2011, , . | | 1 |

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|----|--|-----|-----------|
| 73 | Genetic parameter estimates among scale activity score and farrowing disposition with reproductive traits in swine ^{1,2} . <i>Journal of Animal Science</i> , 2011, 89, 3514-3521. | 0.2 | 8 |
| 74 | Water spray cooling during handling of feedlot cattle. <i>International Journal of Biometeorology</i> , 2010, 54, 609-616. | 1.3 | 22 |
| 75 | Shade material evaluation using a cattle response model and meteorological instrumentation. <i>International Journal of Biometeorology</i> , 2010, 54, 509-515. | 1.3 | 11 |
| 76 | Shade material evaluation using a cattle response model and meteorological instrumentation. <i>International Journal of Biometeorology</i> , 2010, 54, 601-607. | 1.3 | 9 |
| 77 | Foreword to special issue LeRoy Hahn. <i>International Journal of Biometeorology</i> , 2010, 54, 599-599. | 1.3 | 1 |
| 78 | Estimates of genetic parameters among scale activity scores, growth, and fatness in pigs ^{1,2} . <i>Journal of Animal Science</i> , 2010, 88, 455-459. | 0.2 | 28 |
| 79 | Soil versus Pond Ash Surfacing of Feedlot Pens: Occurrence of <i>Escherichia coli</i> O157:H7 in Cattle and Persistence in Manure. <i>Journal of Food Protection</i> , 2010, 73, 1269-1277. | 0.8 | 19 |
| 80 | Proportion of the litter farrowed, litter size, and progesterone and estradiol effects on piglet birth intervals and stillbirths. <i>Animal Reproduction Science</i> , 2010, 119, 68-75. | 0.5 | 37 |
| 81 | Using Experts to Validate an Animal Specific Heat Stress Model for Feedlot Cattle. , 2009, , . | | 0 |
| 82 | Chapter 6: Instrumentation for Research and Management in Animal Agriculture. , 2009, , 131-149. | | 3 |
| 83 | Shade material evaluation using a cattle response model and meteorological instrumentation. <i>International Journal of Biometeorology</i> , 2009, 53, 501-507. | 1.3 | 6 |
| 84 | Impacts of Individual Animal Response to Heat and Handling Stresses on <i>Escherichia coli</i> and <i>E. coli</i> O157:H7 Fecal Shedding by Feedlot Cattle. <i>Foodborne Pathogens and Disease</i> , 2009, 6, 855-864. | 0.8 | 14 |
| 85 | Water Spray Cooling During Handling of Feedlot Cattle. , 2009, , . | | 0 |
| 86 | Sensors for dynamic physiological measurements. <i>Computers and Electronics in Agriculture</i> , 2008, 62, 41-47. | 3.7 | 25 |
| 87 | Sweating Rates of Dairy Cows and Beef Heifers in Hot Conditions. <i>Transactions of the ASABE</i> , 2008, 51, 2167-2178. | 1.1 | 58 |
| 88 | Partitioning of energy in pregnant beef cows during nutritionally induced body weight fluctuation ^{1,2} . <i>Journal of Animal Science</i> , 2008, 86, 370-377. | 0.2 | 35 |
| 89 | Climate Conditions in Bedded Confinement Buildings. , 2008, , . | | 0 |
| 90 | Analysis of Meteorological Parameters of Different Extreme Heat Waves. , 2008, , . | | 2 |

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|-----|--|-----|-----------|
| 91 | Sweating Rates of Dairy and Feedlot Cows under Stressful Thermal Environments. , 2008, , . | | 1 |
| 92 | Effectiveness of Different Shade Materials. , 2008, , . | | 0 |
| 93 | The impact of stress level on fecal bacteria and pathogen shedding in feedlot cattle. , 2008, , . | | 1 |
| 94 | Differential Effects of Heat Stress in Three Strains of Laying Hens. Journal of Applied Poultry Research, 2007, 16, 628-634. | 0.6 | 53 |
| 95 | Summer Heat Waves - Extreme Years. , 2007, , . | | 2 |
| 96 | Shade Material Evaluation Using a Cattle Response Model. , 2007, , . | | 2 |
| 97 | Comparison of heat tolerance of feedlot heifers of different breeds. Livestock Science, 2006, 105, 19-26. | 0.6 | 70 |
| 98 | Heat stress risk factors of feedlot heifers. Livestock Science, 2006, 105, 57-68. | 0.6 | 102 |
| 99 | Partitioning of energy during lactation of primiparous beef cows1. Journal of Animal Science, 2006, 84, 2157-2162. | 0.2 | 55 |
| 100 | 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 |
| 101 | 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 |
| 102 | Evaluating Modelling Techniques for Cattle Heat Stress Prediction. Biosystems Engineering, 2005, 91, 513-524. | 1.9 | 53 |
| 103 | Analyses of thermoregulatory responses of feeder cattle exposed to simulated heat waves. International Journal of Biometeorology, 2005, 49, 285-296. | 1.3 | 44 |
| 104 | Thermoregulatory responses of feeder cattle. Journal of Thermal Biology, 2003, 28, 149-157. | 1.1 | 88 |
| 105 | Relationships among heat production, body weight, and age in Finnsheep and Rambouillet ewes2. Journal of Animal Science, 2002, 80, 825-832. | 0.2 | 18 |
| 106 | Thermoregulatory profile of a newer genetic line of pigs. Livestock Science, 2001, 71, 253-260. | 1.2 | 87 |
| 107 | Physiological responses of tom turkeys to temperature and humidity change with age. Journal of Thermal Biology, 1997, 22, 43-52. | 1.1 | 20 |