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## **Recent Papers**

Q Xie, JQ Ni, E Li, J Bao, P Zheng. 2022. Sequential air pollution emission estimation using a hybrid deep learning model and health-related ventilation control in a pig building. Journal of Cleaner Production 371, 133714.

CE Vonderohe, KM Mills, S Liu, MD Asmus, ER Otto-Tice, BT Richert, J-Q Ni, JS Radcliffe. 2022. The effect of reduced CP, synthetic amino acid supplemented diets on growth performance and nutrient excretion in wean-to-finish swine. Journal of Animal Science 100 (6), skac075.

JQ Ni, TT Lim. 2022. Manure Characteristics, Testing, and Sampling. Purdue University Extension. http://www.extension.purdue.edu/extmedia/ABE.

E Küçüktopcu, B Cemek, H Simsek, JQ Ni. 2022. Computational Fluid Dynamics Modeling of a Broiler House Microclimate in Summer and Winter. Animals 12 (7), 867.

JQ Ni. 2021. Factors affecting toxic hydrogen sulfide concentrations on swine farms—sulfur source, release mechanism, and ventilation. Journal of Cleaner Production 322, 129126.

L Peng, G Yao, JQ Ni, W Meizhi, A Lei, T Jianhui, W Zhonghong. 2021. Heat recovery ventilation system combined with boiler room preheating to improve the indoor environment of rabbit house in severe cold areas. Transactions of the Chinese Society of Agricultural Engineering 37 (18), 244-251.

X Zhang, IM Lopes, JQ Ni, Y Yuan, CH Huang, DR Smith, I Chaubey, S Wu. 2021. Long-term performance of three mesophilic anaerobic digesters to convert animal and agro-industrial wastes into organic fertilizer. Journal of Cleaner Production 307 (July), 127271.

JQ Ni, MA Erasmus, CC Croney, C Li, Y Li. 2021. A critical review of advancement in scientific research on food animal welfare-related air pollution. Journal of Hazardous Materials 408, 124468.

Q Xie, JQ Ni, J Bao, Z Su. 2021. Correlations, variations, and modelling of indoor environment in a mechanically-ventilated pig building. Journal of Cleaner Production 282, 124441.

Y Li, JQ Ni. 2021. Dynamic and 3-D spatial variations in manure characteristics in two commercial manure-belt laying hen houses. Journal of Hazardous Materials 403 (Feb.), 123581.

MM Nour, YH Cheng, WE Field, E Sheldon, JQ Ni. 2021. Summary of Known US Injuries and Fatalities Involving Livestock Waste Storage, Handling and Transport Operations: 1975-2019. Journal of agricultural safety and health 28 (1), 65-81.

X Tong, L Zhao, RB Manuzon, MJ Darr, RM Knight, AJ Heber, JQ Ni. 2021. Ammonia concentrations and emissions at two commercial manure-belt layer houses with mixed tunnel and cross ventilation. Transactions of the ASABE 64 (6), 2073-2087.

MM Nour, YH Cheng, JQ Ni, E Sheldon, WE Field. 2021. Summary of injuries and fatalities involving livestock manure storage, handling, and transport operations in seven central states: 1976-2019. Journal of agricultural safety and health 27 (2), 105-122.

RM Knight, X Tong, L Zhao, RB Manuzon, MJ Darr, AJ Heber, JQ Ni. 2021. Particulate Matter Concentrations and Emission Rates at Two Retrofitted Manure-Belt Layer Houses. Transactions of the ASABE 64 (3), 829-841.

X Tong, L Zhao, AJ Heber, J-Q Ni. 2020. Development of a farm-scale, quasi-mechanistic model to estimate ammonia emissions from commercial manure-belt layer houses. Biosystems Engineering 196, 67-87.

MM Nour, WE Field, J-Q Ni, Y-H Cheng. 2020. Farm-related injuries and fatalities involving children, youth, and young workers during manure storage, handling, and transport. Journal of Agromedicine, 26:3, 323-333, DOI: 10.1080/1059924X.2020.1795034.