**Grants:**

1. **Wang-Li,** Oviedo-Rondón, Classen. 2017-2020. “Mitigating Environmental Stress for Enhanced Broiler Production Performance and Welfare” USDA NIFA AFRI $499,998. **PI**
2. **Shah, S.B., L. Wang-Li, L.F. Stikeleather, P. Kolar, M.S. Castillo. 2014-2017. “Engineered windbreak wall - Vegetative Strip System to Reduce Pollutant and Odor Emissions from Mechanically-Ventilated Broiler and Swine Barns”** USDA NRCS CIG Grant, $121,094. **Co-PI.**
3. **Wang-Li**, Zering, Oviedo, Jones. 2014-2017. “Creating eLearning in NIFA Challenge Areas to transform education of controlled environment animal production (eCAEAP) for sustainability” USDA-NIFA-HEC. Total award $700,000 & NCSU budget $122,167 （Subaward to the OSU）. **PI.**
4. Shah, **Wang-Li**, Oviedo. 2014-2015. “Develop and Test Ammonia-Oxygen Monitoring System for Poultry Houses”. U.S. Poultry and Egg Association. $40,948. **Co-PI**
5. **Wang-Li, L**.2012-2013. “Low Cost Ammonia Monitor for Agricultural Emissions”. USDA-NIFA-SBIR. Subcontract to Mesa Photonics, LLC. $8,676. **PI**
6. **Wang, L**. 2010-2017. “CAREER: Fate and Transport of Aerosols from Animal Feeding Operations” funded by NSF-CAREER. $403,172. **PI**.
7. Williams, M.C., J. Brake, M. Koci, C. Stark, **L. Wang**. 2010-2013. “Systems Approach to Reduce Ammonia and Particulate Emissions from Poultry Production Facilities” funded by USDA-NIFA-SRGP-002756. $324,803. **Co-PI.**
8. Williams, M.C., **L. Wang**, S. Shah, M. Rice. 2009-2012. “Coordinated Analysis to Facilitate Technology Transfer to Meet Emission Requirements for Next Generation Livestock & Poultry Production Facilities” funded by USDA-NIFA-SRGP-002216. $325,368. **Co-PI.**
9. **Wang, L.,** and D. Beasley. 2008-2011. “Characterizations of Particulate Matter Emitted from Egg Production Facilities: Sources versus Public Exposure” funded by USDA-NRI. $399,080. **PI.**
10. Zering, K., **L. Wang**, L. Bull, E. vanHeugten and S. Liehr. 2008 – 2010. “Environmentally Sustainable Swine and Poultry Production Systems for the Future” funded by USDA-CSREES-SRGP-001366. $347,246. **Co-PI.**
11. **Wang, L**. 2007-2010. “The National Air Emission Monitoring Study (NAEMS) – Southeast Layer Site” funded by the Agricultural Air Research Council (AARC) under the EPA Air Quality Compliance Agreement for Animal Feeding Operations. $210,256. **PI.**
12. **Wang, L**. 2007-2008. “Development of Bio-Aerosol Responding/Notifying System (BARNS)”. Funded by North Carolina State University Faculty Research and Professional Development program. $4,000. **PI.**
13. Bull, L., C.M. Williams, **L. Wang** and S. Shah**.** 2006-2009. “Poultry and Livestock Air Quality Research Initiative” funded by USDA-CSREES-SRGP-22334. $451,944. **Co-PI**.
14. Burton, M. and **L. Wang**. 2007-2010. “Longevity and Dispersal Of Glyphosate-Resistant Palmer Amaranth Pollen”. Cotton Incoporated, Inc.. $15,000. **Co-PI**.
15. Oviedo-Rondón, E.O., **L. Wang**, B. Sheldon, G. Havenstein and C.M. Williams. 2006-2007 “Ozonation to Reduce Ammonia Odor and Pathogens in Broiler Houses” funded by Animal and Poultry Waste Management Center (APWMC) $20,000. **Co-PI**.

**Peer Reviewed Journal Publications:**

1. Lin, T. S.B. Shah, **L. Wang-Li**, E. O. Oviedo-Rondon, J. Post. **2016**. Development of MOS sensor-based NH3 Monitor for Use in Poultry Houses. *Computer and Electronics in Agriculture.* 127(2016)708-715.
2. Padavagod Shivkumar, A. **L. Wang-Li**, S.B. Shah, L.F. Stikeleather, M. Fuentes. **2016**. Performance analysis of a poultry engineering chamber complex for animal environment, air quality, and welfare studies. *Transaction of the ASABE.* Vol.59(5):1371-1381
3. Hu, D. L. **Wang-Li,** O.D. Simmons, J.J. Classen, J.A. Osborne. **2016.** Particle size distributions of bioaerosols in the vicinity of an egg production facility in Southeast U.S. *Environmental Engineering Science.* Volume 33, Number 4, 215-223.
4. Wang, K. Q. Li, **L. Wang-Li.**, I. Kilic, B.W. Bogan, C-H. Xiao, J-Q. Ni, A.J. Heber. **2016** National air emissions monitoring study’s Southeast layer site: Part V. hydrogen sulfide and VOCs. *Transaction of the ASABE.* Vol.59(2):681-693.
5. Hu, D. L. **Wang-Li,** O.D. Simmons, J.J. Classen, and J.A. Osborne. **2015.** Spatiotemporal variations of bioaerosols in the vicinity of an animal feeding operation facility in the U.S. *Journal of Environmental Protection.* 6, 614-627.
6. Hood, M., S.B. Shah, P. Kolar, **L. Wang-Li**, L. Stikeleather. **2015**. Biofiltration of ammonia and GHGs from Swine Gestation Barn Pit Exhaust. *Transaction of the ASABE*. Vol. 58(3): 771-782.
7. **Wang-Li**, L. **2015**. Insights to the formation of secondary inorganic PM2.5: current knowledge and future needs. *International Journal of Agricultural and Biological Engineering*. Vol. 8, No.2 (2015). DOI: 10.3965/j.ijabe.20150802.1810
8. Li, Q.-F., **L. Wang-Li,** R.K.M. Jayanty, and S. B. Shah. **2015.** Elemental Composition and Chemical Mass Closure of Fine Particulate in an Animal Feeding Operation Facility and Its Vicinity. *Journal of* *Environmental Protection.* 6, 409-425.
9. Li, Q.-F., **L. Wang-Li,** Z. Liu, R.K.M. Jayanty, S. B. Shah, and P. Bloomfield. **2014.** Major ionic composition of fine particulate matter in an animal feeding operation facility and its vicinity. *Journal of AWMA.* 64(11):1279-1287.
10. Hu, D. L. **Wang-Li,** O.D. Simmons, J.J. Classen, J.A. Osborne and G.E. Byfield. **2014**. Bioaerosol concentrations and emissions from tunnel ventilated high-rise layer operation houses in the United States. *Transaction of ASABE.* Vol. 57(3):915-925.
11. Shah, S., G. Grabow, **L. Wang-Li**, J. Parson. **2014**. Poultry waste stockpiling method: environmental impacts and their mitigation. *NCCES Bulletin AG-788W*
12. Li, Q.-F., **L. Wang-Li,** R.K.M. Jayanty, S. B. Shah, and P. Bloomfield. **2013**. Ammonia concentrations and modeling inorganic particulate matter in the vicinity of an egg production facility. *Journal of Environmental Science and Pollutant Research.* Vol21, 6(2014):4675-4685
13. **Wang-Li**, L., Q-F. Li, K. Wang, B.W. Bogan, J-Q. Ni, E.L. Cortus, and A.J. Heber. **2013.** National air emissions monitoring study’s Southeast layer site: Part I.site characteristics and monitoring methodology. *Transaction of the ASABE*. 56(3):1157-1171.
14. Li, Q-F., L. **Wang-Li**, K. Wang, L. Chai, E.L. Cortus, I. Kilic, B.W. Bogan, J-Q. Ni. A.J. Heber. **2013.** National air emissions monitoring study’s Southeast layer site: Part II. particulate matter. *Transaction of the ASABE.* 56(3):1173-1184.
15. **Wang-Li.,** L., Q-F. Li, L. Chai, E. L. Cortus, K. Wang, I. Kilic, B.W. Bogan, J-Q. Ni, A.J. Heber. **2013.** National air emissions monitoring study’s Southeast layer site: Part III.ammonia concentrations and emissions. *Transaction of the ASABE.* 56(3):1185-1197.
16. Li, Q-F., L. **Wang-Li**, B.W. Bogan, K. Wang, L. Chai, J-Q. Ni. A.J. Heber. **2013.** National air emissions monitoring study’s Southeast layer site: Part IV.effects of farm management. *Transaction of the ASABE.* 56(3): 1199-1209.
17. **Wang-Li, L. 2013**.Techniques for characterization of particulate matter emitted from animal feeding operations. Peer-reviewed book chapter of “Evaluating Veterinary Pharmaceutical Behavior in the Environments”. Chapter 2, pp15-39. American Chemical Society (ACS). **DOI:** 10.1021/bk-2013-1126.ch002.
18. Li, Q-F., **L. Wang-Li**, R.K.M. Jayanty, S.B. Shah. **2013.** Organic and elemental carbons in atmospheric fine particulate in an animal agriculture intensive area in North Carolina: estimation of secondary organic carbon concentration. *Open Journal of Air Pollution*. 2013, 2:7-18
19. **Wang-Li, L.**, Q. Li, G.E. Byfield. **2013**. Identifications of bioaerosols released from an egg production facility in Southeast U.S. *Journal of Environmental Engineering Science.* 30(1):2-10.
20. **Wang-Li, L.**, Cao, Z. M. D. Buser, D. Whitelock, C.B. Parnell and Y. Zhang. **2013**. Techniques for measuring particle size distribution of particulate matter emitted from animal feeding operations. *Atmospheric Environment.* 66(2013)25-32. <http://dx.doi.org/10.1016/j.atmosenv.2012.08.051>
21. **Wang-Li**, L., Z. Cao, Q. Li, Z. Liu, and D.B. Beasley. **2013**. Concentration and particle size distribution of particulate matter emitted from tunnel ventilated high-rise layer operation houses. *Atmospheric Environment.* 66 (2013)8-16.
22. Jones, H.W., **L. Wang-Li**, B. Y. Boroujeni. **2012.** Impact of downwind sampling location and sampling height on inverse-Gaussian dispersion modeling of air emissions from animal feeding operations: a theoretical study. *International Journal of Agricultural and Biological Engineering.* Vol.5 No.4 (2012):39-46.
23. **Wang-Li, L.** O.D. Simmons III, E.F. Wheeler. **2012**. Bioaerosol Sampling in Animal Environments. Available at <http://www.extension.org/sites/default/files/Bioaerosol%20SamplingFINAL.pdf>.
24. Li, Q.-F., **L. Wang-Li,** J.T. Walker, S. B. Shah, P. Bloomfield and R.K.M. Jayanty. **2012**. Particulate matter in the vicinity of an egg production facility: concentrations, statistical distributions and upwind and downwind comparison. Transaction of the ASABE*.* Vol.55(5):1965-1973.
25. Li, Q-F., **L. Wang-Li**, Z. Liu, and A.J. Heber. **2012**. Field evaluation of particulate matter measurements using tapered element oscillating microbalance in a layer house. *Journal of Air and Waste Management Association.* 62(3):322-335.
26. Start, A.M., M.G. Burton, D.L. Jordan, R.J. Richardson, J.F. Spears, S.T. Hoyle and L. Wang-Li. 2012. Influence of distance from source and height above canopy on Palmer Amaranth pollen distribution. *Crop Management*. DOI:10.1094/Cm-2012-0524-01-RS
27. Li, Q-F., L. Wang-Li, S.B. Shah, R.K.M. Jayanty, and P. Bloomfield. 2011. Fine particulate matter in a high-rise layer house and its vicinity. *Transaction of the ASABE.* Vol. 54(6):2299-2310.
28. Yao, H. S.B. Shah, D.H. Willits, P.W. Westerman, **L. Wang-Li**, and T.K. Marshall. **2011.** Ammonia emissions from broiler cake stockpile in a naturally ventilated shed. Transaction of the ASABE. Vol.54(5): 1893-1904.
29. Liu, Z., **L. Wang-Li**, D.B. Beasley and S.B. Shah. **2011**. Validation and uncertainty analysis of an ammonia emission model for broiler litter. *Transaction of the ASABE.* Vol.54(3):1054-1057*.*
30. Li, Q., **L. Wang**, E.O. Oviedo-Rondón, and C.B. Parnell. **2010**. Impact of ozonation on particulate matter in broiler houses. *Journal of Poultry Science.* Vol. 89:2052-2062
31. Park, J.M., J.C. Rock, **L. Wang**, Y.-C. Seo, A. Bhatnagr, S. Kim. **2009**. Performance evaluation of six different aerosol samplers in a particulate matter generation chamber. *Atmospheric Environment.* 43(2) 280-289.
32. **Wang, L.,** E.O. Oviedo-Rondón, J. Small, Z. Liu, B.W. Sheldon, G.B. Havenstein, and M.C. Williams. **2010**. Farm-scale evaluation of ozonation for mitigating ammonia emissions from broiler houses. *Journal of Air and Waste Management Association.* Vol.60:789-796*.*
33. Li, Q., **L. Wang**, Z. Liu, and R. Kamens. **2009**. Could ozonation technology really work for mitigating air emissions from animal feeding operations? *Journal of Air and Waste Management Association.* Vol.59:1239-1246.
34. Liu, Z., **L. Wang**, D.B. Beasley and Sanjay Shah. **2009**. Modeling ammonia emissions from broiler litter at laboratory scale. *Transaction of the ASABE*. Vol.52(5):1683-1694.
35. Liu, Z., **L. Wang**, and D.B. Beasley. **2008**. Comparison of three techniques for determining ammonia emission fluxes from broiler litter. *Transactions of the ASABE.* Vol. 51(5): 1783-1790.
36. Liu, Z., **L. Wang**, D.B. Beasley, E. Oviedo. **2007**. Effect of moisture content on ammonia emissions from broiler litter: a laboratory study. *Journal of Atmospheric Chemistry*. (2007)58:41-53.
37. Buser, M.D., D.P. Whitelock, G.A. Holt, C.B. Armijo, and **L. Wang**. **2007**. Collection efficiency evaluation of baffle-type pre-separator configurations: effects of baffle location and inlet velocities. *Applied Engineering in Agriculture.* Vol. 23(3):347-355.
38. **Wang, L.,** C.B. Parnell, and M.D. Buser. **2007**. Theoretical study for the impact of PM settling on ambient PM10 monitoring for agricultural emissions. *Journal of Air and Waste Management Association.* Vol.57:111-115.
39. **Wang, L**., D.B. Parker, C. B. Parnell, R.E. Lacey, and B.W. Shaw. **2006**. Comparison of CALPUFF and ISCST3 models for predicting downwind odor and source emission. *Atmospheric Environment.* 40(2006):4663-4669.
40. **Wang, L.**, C.B. Parnell and B.W. Shaw. **2006**. A Theoretical Approach for Predicting Number of Turns and Cyclone Pressure Drop. *Transactions of the ASAE*. Vol. 49(2):491-503
41. **Wang, L.,** C.B. Parnell, B.W. Shaw, R.E. Lacey, M.D. Buser, L B. Goodrich and S.C. Capareda. **2005**. Correcting PM10 over-sampling problems for agricultural particulate matter: preliminary study. *Transactions of the ASAE*. Vol. 48 (2):749-755.
42. **Wang, L.**, J.D. Wanjura, C. B Parnell, R.E. Lacy and B.W. Shaw. **2005**. Performance characteristics of low-volume PM10 sampler*.* *Transactions of the ASAE*. Vol.48 (2): 739-748.
43. **Wang, L.**, M.D. Buser, C.B. Parnell and B.W. Shaw. **2003**. Effect of air density on cyclone performance and system design. *Transactions of the ASAE* Vol.46 (4): 1193-1201.
44. **Wang, L.**, C.B. Parnell and B.W. Shaw. **2002**. Performance characteristics of cyclones in cotton-gin dust removal. *Agr. Engng. Intl.* Volume IV. Manuscript No. BC02001. Website: [http://cigr-ejournal.tamu.edu](http://cigr-ejournal.tamu.edu/).
45. **Wang, L.**, C.B. Parnell and B.W. Shaw. **2002**. Study of the cyclone fractional efficiency curves. *Agr. Engng. Intl.* Volume IV. Manuscript No. BC02002. Website: [http://cigr-ejournal.tamu.edu](http://cigr-ejournal.tamu.edu/).

**Conference Papers & Presentations**

1. Hu, F. and **L. Wang-Li.** 2016. Characteristics of particulate matter emissions from animal feeding operations in the U.S. ASABE Paper No. 2461589. 2016ASABE Annual International Meeting, July 17-20. 2016. Orlando, Florida
2. Cheng, B. and **L. Wang-Li**. 2016. Spatial and temporal variations of secondary inorganic PM2.5 in North Carolina. ASABE Paper No. 2461607. 2016ASABE Annual International Meeting, July 17-20. 2016. Orlando, Florida
3. Zhao, Y. and **L. Wang-Li**. 2016. Spatiotemporal variations of precursor gases to secondary inorganic PM2.5 in North Carolina. ASABE Paper No. 2461601. 2016ASABE Annual International Meeting, July 17-20. 2016. Orlando, Florida
4. Zheng, Y., **L. Wang-Li**, E. O. Oviedo, K. Zering, L. Zhao. 2016. Development of eLearning Modules on Controlled Environment Animal Production: Air Quality, Economics and Broiler Specifics. ASABE Paper No. 2461611. 2016ASABE Annual International Meeting, July 17-20. 2016. Orlando, Florida
5. **Wang-Li, L.,** B. Cheng, Y. Zhao. 2016. Spatial and Temporal Variations of Inorganic PM2.5 as Impacted by its Precursor Ga Emissions in North Carolina. Invited speech at 6th International Conference on Environmental Technology and Knowledge Transfer. Mat 19-20, Hefei, China.
6. Zhao, Y. and **L. Wang-Li**. 2015. Spatial distribution of ammonia emission density as impacted by poultry and swine production in North Carolina of the U.S. *Int. Symp. on Animal Environ. & Welfare*. Oct. 23–26, 2015, Chongqing, China.
7. Cheng, B. and **L. Wang-Li**. 2015. Responses of secondary iPM2.5 to precursors in an NH3-rich area in NC. ASABE Paper No. 152190036. 2015 ASABE Annual International Meeting, July 26-29. 2014. New Orleans, Louisiana
8. Zheng, Y., **L. Wang-Li**, E. Oviedo, K. Zering, L. Zhao. 2015. Control of AFO air emissions for reduced climate change and environmental impacts. ASABE Paper No. 15218998. 2015 ASABE Annual International Meeting, July 26-29. 2014. New Orleans, Louisiana
9. Zhao, Y, J. Burroughs, S. Dobbins and **L. Wang-Li**. 2015. Spatial distribution of AFO facilities and associated NH3 emissions in NC. ASABE Paper No. 152190024. 2015 ASABE Annual International Meeting, July 26-29. 2014. New Orleans, Louisiana
10. **Wang-Li**., **L.**, B. Cheng. 2014. Formation of Secondary PM2.5 as Impacted by Air Emissions from Animal Feeding Operations: A Review. ASABE Paper No. 1907856. 2014 ASABE Annual International Meeting, July 13-16. 2014. Montreal, Canada.
11. Shivkumar, A.P., B. Cheng, **L. Wang-Li**. 2014. Application of Inverse AERMOD and SCIPUFF for Farm level Air Emission Rate Assessment. ASABE Paper No. 1907741. 2014 ASABE Annual International Meeting, July 13-16. 2014. Montreal, Canada.
12. **Wang-Li, L.,** Y. Xu, A.P. Shivkumar, C. Williams, J. Brake. 2014.Nitrogen Mass Balance Approach to Assessing Ammonia Emission from Broiler Litter: A Chamber Study**.** ASABE Paper No. 1907915. 2014 ASABE Annual International Meeting, July 13-16. 2014. Montreal, Canada.
13. Lin, T., S.B. Shah, **L. Wang-Li**. 2014. Selection of Low-cost and Robust Sensors for Measuring Ammonia Concentrations in Poultry Production Environments: A Laboratory Study**.** ASABE Paper No. 1907975. 2014 ASABE Annual International Meeting, July 13-16. 2014. Montreal, Canada.
14. Shivkumar, A.P., **L. Wang-Li**, S.B. Shah and Stikeleather. 2014. Performance Analysis of A Poultry Engineering Chamber Complex Using Computational Fluid Dynamics (CFD). ASABE Paper No. 1907795. 2014 ASABE Annual International Meeting, July 13-16. 2014. Montreal, Canada.
15. Xu, Y., **L. Wang-Li**, C. R. Stark, P. R. Ferket, C. M. Williams, and J. Brake. 2014. Effects of coarsely ground corn inclusion on female broiler live performance, gizzard and proventriculus weight, litter characteristics and ammonia emission. International Poultry Scientific Forum. Southern Poultry Science Society Meeting.
16. Oviedo-Rondón, E.O., S.B. Shah, and **L. Wang-Li**. 2013. Air Emissions from Poultry Houses. In proceedings of the International Congress on Advancements in Poultry Production in the Middle East and African States. October 21-25, 2013,Antalya,Turkey.
17. **Wang-Li**, L., A.P. Shivkumar, Munilla, Y, Xu, R.D. Munilla, M.E. Adcock, J.C. Tutor, J. Brake, and C.M. Williams. 2013. Performance of a poultry engineering chamber complex for animal environment and welfare studies. In proceedings of 2013 International Symposium on Animal Environment and Welfare. October 19-22, 2013, Chongqing, China.
18. Shivkumar, A.P., E. O. Obanor and **L. Wang-Li**. 2013. Spatial variations of air pollutants in the vicinity of an AFO facility: NH3, PM and Bioaerosols. ASABE Paper No. 1579712. Presented at 2013 ASABE Annual International Meeting, July 22-24. 2013. Kansas, MO.
19. Shivkumar, A.P., **L. Wang-Li**, Munilla, R.D., M.E. Adcock, J.C. Tutor and S.B. Shah. 2013. Flow testing of a poultry engineering chamber complex for animal environment, air quality and animal welfare studies. ASABE Paper No. 1579505. Presented at 2013 ASABE Annual International Meeting, July 22-24. 2013. Kansas, MO.
20. Li, Q-F., **L. Wang-Li**, A.J. Heber. 2012. Laying hen performance: field observations and time series simulation. ASABE Paper No. 121337791. Presented at 2012 ASABE Annual International Meeting, July 29-Agust 1. 2012. Dallas, TX
21. Li, Q-F., **L. Wang-Li**, R.K.M. Jayanty, S.B. Shah. 2012.Organic and elemental carbon in atmospheric fine particulate in an animal agriculture intensive area in North Carolina: estimation of secondary organic carbon concentration. ASABE Paper No. 121337796. Presented at 2012 ASABE Annual International Meeting, July 29-Agust 1. 2012. Dallas, TX
22. **Wang-Li, L.,** Munilla, R.D., S. Badawi, M.E. Adcock, J.C. Tutor, C.M. Shah. 2012. Design and assembly of a poultry simulation chamber complex for air quality and animal welfare studies. ASABE Paper No. 121337793. Presented at 2012 ASABE Annual International Meeting, July 29-Agust 1. 2012. Dallas, TX.
23. Ying, M., **L. Wang-Li**, L. Stikeleather, J. Edwards, and H. Wang. 2012. Modeling plume rise of air emissions from animal housing systems: application of CFD. ASABE Paper No. 121337786. Presented at 2012 ASABE Annual International Meeting, July 29-Agust 1. 2012. Dallas, TX.
24. Ying, M., **L. Wang-Li**, L. Stikeleather, J. Edwards, and H. Wang. 2012. Modeling plume rise of air emissions from animal housing systems: application of AEROMOD. ASABE Paper No. 121337784. Presented at 2012 ASABE Annual International Meeting, July 29-Agust 1. 2012. Dallas, TX.
25. Hu, D., L. **Wang-Li**, O. D. Simmons, J. J. Classen, J. A. Osborne. 2012. Temporal and Spatial Variations of Bioaerosols Emitted from an Egg Production Facility in Southeast U.S.: Part II – Concentrations in the Vicinity. ASABE Paper No. 121337788. Presented at 2012 ASABE Annual International Meeting, July 29-Agust 1. 2012. Dallas, TX.
26. Hu, D., **L. Wang-Li**, O. D. Simmons, J. J. Classen, J. A. Osborne. 2012. Temporal and Spatial Variations of Bioaerosols Emitted from an Egg Production Facility in Southeast U.S.: Part III – particle size distribution. ASABE Paper No. 121337789. Presented at 2012 ASABE Annual International Meeting, July 29-Agust 1. 2012. Dallas, TX.
27. Hu, D., **L. Wang-Li**., O.D. Simmons, J. J. Classen, J. A. Osborne. 2012. Measurement and analysis of temporal and spatial variations of bioaerosol concentrations in a high-rise egg production house in Southeastern U.S. Presented at 2012 AWMA Symposium on Air Quality Measurement Methods and Technology. April 24-26, 2012. Durham, NC.
28. Cao, Z. M. Buser, D. Whitelock, **L. Wang-Li**, Y. Zhang, C.B. Parnell. 2011. Techniques for determining particle size distribution of particulate matter: laser diffraction vs. electrical sensing zone. Presented at 242nd American Chemical Society (ACS) National Meeting in Denver, CO.
29. Li, Q. and **L. Wang-Li**. 2011. Particulate matter concentrations in the vicinity of an egg production facility: statistical distributions and upwind and downwind comparison. Presented at 2011 ASABE international conference.
30. Ying, M., **L. Wang-Li**, and Q. Li. 2011. Backward Gaussian dispersion modeling for estimating plume-rise of air emissions from animal housing systems. Presented at 2011 ASABE annual international conference.
31. Hu, D., **L. Wang-Li**, O.D. Simmons, J.J. Classen, and J.A. Osborne. 2011. Concentrations of bioaerosols in the vicinity of a commercial egg production farm in Southeast U.S. Presented at 2011 ASABE annual international conference.
32. Jones, H. W., B. Y. Boroujeni and **L. Wang-Li**. 2011. Modeling dispersion of particulate matter from animal housing emissions using Gaussian dispersion modeling approach: impact of downwind sampling location and sampling height. Presented at 2011 ASABE annual international conference.
33. **Wang-Li,** L. Q. Li, J.-Q. Ni, E.L Cortus, C.A. Diehl, A.J. Heber. 2011. National air emissions monitoring study-Southeast layer site: site specifics and methods. Presented at 2011 ASABE annual international conference.
34. Li, Q. **L. Wang-Li**, and A.J. Heber. 2011. Impact of farm activities on air emissions from high-rise egg production houses in Southeast U.S. Presented at 2011 ASABE annual international conference.
35. **Wang-L**i, Q. Li, B. W. Bogan, I. Kilic, J.-Q Ni, A.J. Heber and K. Wang. 2011. Characterization of ammonia emissions from a commercial egg production farm in Southeast U.S. Presented at 2011 ASABE annual international conference.
36. Li, Q., **L. Wang-Li**, , K. Wang, B. W. Bogan, I. Kilic, J.-Q Ni and A.J. Heber. 2011. Particulate matter emissions from high-rise egg production houses in Southeast U.S. Presented at 2011 ASABE annual international conference.
37. Kilic,I, A. J. Heber , K. Wang, **L. Wang-Li**, Q. Li, E. L. Cortus and B. W. Bogan. 2011. Determining long term nitrogen mass balances for two commercial layer houses. Presented at 2011 ASABE annual international conference.
38. **Wang-Li**, Q. Li and Z. Liu. 2011. Gas phase ammonia and particle phase major ions in the vicinity of a layer operation farm in Southeast U.S. Presented at 2011 ASABE annual international conference.
39. **Wang, L.,** Z. Cao, Q. Li, Z. Liu. 2010. Particle size distribution and concentration of total suspended particulate in layer barns. Paper No. 1009287. Presented at 2010 ASABE Annual International Meeting. June 21 –24, 2010. Pittsburgh, PA.
40. **Wang, L.**, Q. Li, G. Byfield, O. D. Simmons, J. Classen. 2010. Biological characteristics of aerosols emitted from a layer operation in Southeast U.S. Paper No. 1009290. Presented at 2010 ASABE Annual International Meeting. June 21 –24, 2010. Pittsburgh, PA.
41. Li, Q., **L. Wang,** Z. Liu, R.K.M. Jayanty. 2010. Major ions characterization of PM2.5 emitted from AFOs. Presented at 2010 ASABE Annual International Meeting. June 21 –24, 2010. Pittsburgh, PA.
42. Li, Q., **L. Wang,** Z. Liu, R.K.M. Jayanty. 2010. Patterns and spatial variation of elements in PM2.5 emitted from AFOs. Paper No. 1008743. Presented at 2010 ASABE Annual International Meeting. June 21 –24, 2010. Pittsburgh, PA.
43. Li, Q., **L. Wang,** Z. Liu. 2010. PM2.5 mass concentrations at commercial egg production facility and its vicinity. Paper No. 1008750. Presented at 2010 ASABE Annual International Meeting. June 21 –24, 2010. Pittsburgh, PA.
44. Li, Q., **L. Wang,** Z. Liu. 2010. Influence of temperature setting of tapered element oscillating microbalance (TEOM) sampler on particulate measurements. Paper No. 1008744. Presented at 2010 ASABE Annual International Meeting. June 21 –24, 2010. Pittsburgh, PA.
45. Liu, Z., **L. Wang**, Q. Li, and R.K.M. Jayanty. 2010. Measurements of ammonia gas, ammonium aerosol, and related inorganic particulate matter in vicinity of a southeast layer operation. Paper No. 1009200. Presented at 2010 ASABE Annual International Meeting. June 21 –24, 2010. Pittsburgh, PA.
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