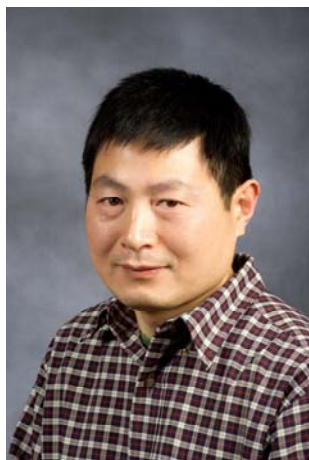


Research Profile



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Professional Education:

- Ph.D., Soil Science, Pennsylvania State University, 2001.
- M.S., Environmental Chemistry, Chinese Academy of Sciences, 1995.
- B.S., Environmental Soil Science, Beijing Agricultural University, 1990.

Research Interest Area(s):

- Fate and transport of contaminants in agricultural ecosystems
- Soil conservation and fertility management, Value-added reuse of organic waste and biofuel development

Active Grants & Funding:

- Outreach-incorporated studies of reforestation and soil conservation on Delaware marginal land. USDA-CBG. 10/1/2010-9/30/2013.
- Northeast bioenergy and bioproducts (NBB) education program: providing faculty (grades 8 - 16) with training, tools, and in-classroom support. USDA-AFRI. 2/1/11-1/31/16
- On-farm transformation, stabilization, and upgrading of pyrolysis bio-oil as a biofuel. USDA-Evans Allen. 3/1/2009-2/28/2012.
- Ecological succession on wetlands restored from agricultural uses. NOAA-ECSC. 7/1/2008-6/30/2010.

Professional Affiliations:

- Soil Science Society of America (SSSA),
- American Society of Agronomy (ASA),
- American Chemical Society (ACS)

Publications (last three years):

- Guo, M. and W. Song. 2011. Converting poultry litter to activated carbon: optimal carbonization conditions and product adsorption for organics. *Environ. Technol.* (In press)
- Zheng, W., M. Guo, T. Chow, D. Bennett, and N. Rajagopalan. 2010. Sorption properties of greenwaste biochar for two triazine pesticides. *J. Hazard. Mater.* 181:121-126.
- Guo, M. and W. Song. 2010. Nutrient and aluminum availability of alum-amended poultry litter: a long term weathering study. *Plant Soil* 332:219-231.



Publications (last three years), continued:

- Guo, M., G. Qiu, and W. Song. 2010. Poultry litter-based activated carbon for removing heavy metal ions in water. *Waste Manage.* 30:308–315.
- Qiu, G. and M. Guo. 2010. Quality of poultry litter-based granular activated carbon. *Bioresour. Technol.* 101:379–386.
- Guo, M., N. Tongtavee, and M. Labreveux. 2009. Integrated management practices for reducing nutrient runoff losses from animal manure-fertilized cropland. *JEMREST* 6:160–172.
- Guo, M. and G. Qiu. 2009. Effective setbacks for controlling nutrient runoff losses from land applied poultry litter. *Proc. 31st Southern Conservation Agric. Systems Conf.* 31:151–161.
- Guo, M., N. Tongtavee, and M. Labreveux. 2009. Nutrient dynamics of field-weathered Delmarva poultry litter: implications for land application. *Biol. Fertil. Soils* 45:829–838.
- Guo, M. and S. Gao. 2009. Degradation of methyl iodide in soil: Effects of environmental factors. *J. Environ. Qual.* 38:513–519.
- Guo, M., M. Labreveux, and W. Song. 2009. Nutrient release from bisulfate-amended phytase-diet poultry litter under simulated weathering conditions. *Waste Manage.* 29:2151–2159.
- Guo, M. and W. Song. 2009. Nutrient value of alum-treated poultry litter for land application. *Poultry Sci.* 88:1782-1792.