



**Delaware State**  
**University**  
SINCE 1891

College of Agriculture  
and Related Sciences

## RESEARCH PROFILE

### Contact Information

[mguo@desu.edu](mailto:mguo@desu.edu)

(302) 857-6479 PH; (302) 857-6455 Fax

Department of Agriculture & Natural Resources

15 J.W.W. Baker building

Delaware State University, Dover, DE 19901

### Doctoral Degree

Soil Science, Pennsylvania State University

### Research Interest Area(s)

Soil conservation and fertility management

Fate and transport of nutrients and contaminants  
in agricultural ecosystems

Bioenergy and climate change education

### Active Grants & Funding

- USDA-AFRI Outreach-incorporated studies of reforestation and soil conservation
- USDA-AFRI Northeast bioenergy and bioproducts education programs
- NASA Preparing science educators with climate change literacy

### Professional Affiliations

*Soil Science Society of America*

*American Chemical Society*

### Publications (last three years)

Song, W. and M. Guo. 2013. Residual veterinary pharmaceuticals in animal manures and their chemical behavior in soils. p. 299–311. In: Z. He and H. Zhang (ed.) *Applied Manure and Nutrient Chemistry for Sustainable Agriculture and Environment*. Springer: New York, NY.

Guo, M. 2013. Evolving bioretention techniques for urban stormwater treatment. *Hydrol. Current Res.* 4:e106. doi:10.4172/2157-7587.1000e106

Guo, M., Y. Shen, and Z. He. 2012. Poultry litter-based biochar: preparation, characterization, and utilization. p. 171–202. In: Z. He (ed.) *Applied Research in Animal Manure Management: Challenges and Opportunities beyond the Adverse Environmental Impacts*. Nova Science Publishers: Hauppauge, NY.

Guo, M. 2012. Disposal of biosolids through land application: concerns and opportunities. *Hydrol. Current Res.* 3:e104. doi:10.4172/2157-7587.1000e104

Guo, M., W. Song, and R. Kazda. 2012. Fertilizer value of lime-stabilized biosolids as a soil amendment. *Agron. J.* 104:1679–1686.

Song, W. and M. Guo. 2012. Quality variations of poultry litter biochars generated at different pyrolysis temperatures. *J. Anal. Appl. Pyrolysis* 94:138–145.



**MINGXIN GUO**

Professor