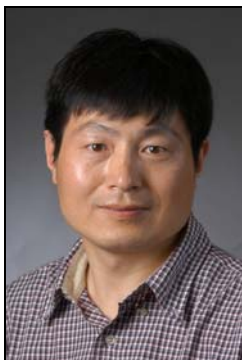


Research Profile



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Professional Education:

Ph.D. in Soil Science, Pennsylvania State University, 1997-2001

Research Interest Area(s):

Environmental fate and transport of agrochemicals in soils and water; Nutrient management and organic residue recycling; Biogeochemistry of trace elements in soil and aquatic systems; Surface/subsurface water quality chemistry; Soil remediation and land reclamation

Active Grants & Funding:

- USDA 1890 Capacity Building Grant. 24 months.
- NSF EPSCoR Seed Grant. 12 months.
- DNMC Research and Development Grant. 24 months.
- DNMC Research and Development Grant. 15 months.
- DSU Mini Grant. 12 months.

Professional Affiliations:

- Active member, Soil Science Society of America (since 1999)
- Active member, American Chemical Society (since 2000)

Honors & Awards Received (last five years): N/A

Publications (Last three years):

Wang, Q., M. Guo, and S.R. Yates. 2006. Degradation kinetics of manure-derived sulfadimethoxine in amended soil. *J. Agric. Food Chem.* 54:157-163.

Guo, M. and J. Chorover. 2006. Leachate migration from spent mushroom substrate through intact and repacked soil columns. *Waste Manag.* 26:133-140.

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Zheng, W., S.K. Papiernik, S.R. Yates, and *M. Guo*. 2004. Effect of combined application of methyl isothiocyanate and chloropicrin on their transformation. *J. Environ. Qual.* 33:2157-2164.

Guo, M., W. Zheng, S.K. Papiernik, and S.R. Yates. 2004. Distribution and leaching of methyl iodide in soil following shank and drip application. *J. Environ. Qual.* 33:2149-2156.

Papiernik, S.K., R.S. Dungan, W. Zheng, *M. Guo*, S.M. Lesch, and S.R. Yates. 2004. Effect of application variables on emissions and distribution of fumigants applied via subsurface drip irrigation. *Environ. Sci. Tech.* 38: 5489-5496.

Papiernik, S.K., S.R. Yates, R.S. Dungan, S. M. Lesch, W. Zheng, and *M. Guo*. 2004. Effect of surface tarp on emissions and distribution of drip-applied fumigants. *Environ. Sci. Tech.* 38:4254 – 4262

Guo, M., S.K. Papiernik, W. Zheng and S.R. Yates. 2004. Effects of environmental factors on 1,3-dichloropropene hydrolysis in water and soil. *J. Environ. Qual.* 33:612-618.

Zheng, W., S.K. Papiernik, *M. Guo* and S.R. Yates. 2004. Remediation of methyl iodide in aqueous solution and soils amended with thiourea. *Environ. Sci. Technol.* 38:1184-1188.

Guo, M. and J. Chorover. 2004. Solute release from weathering of spent mushroom substrate under controlled conditions. *Compost Sci. Utilization* 12 (3):225-234.

Zheng, W., S.R. Yates, S.K. Papiernik, and *M. Guo*. 2004. Transformation of herbicide propachlor by an agrochemical thiourea. *Environ. Sci. Tech.* 38:6855-6860.