

Hala I. Chaoui

chaoui@uiuc.edu
(614) 209 5196

PUBLICATIONS

Refereed:

- Chaoui, H. and Keener, H.M. 2008. Modeling the effectiveness of an electric field at repelling earthworms. *Biosystems Engineering*, 100 (3), 409-421. <http://dx.doi.org/10.1016/j.biosystemseng.2008.04.009>
A second paper, part 2 of this study is in review at the same journal, submitted in 2008.
- Chaoui et al., 2003. Effect of Earthworm Casts and Compost on Soil Microbial Activity and Plant Nutrient Availability. *Soil Biology and Biochemistry*, 35, 295-302. *8th most downloaded article in Soil Biology and Biochemistry Journal, 2003. Cited 25 times in refereed articles.*
- (in review) Chaoui, H, Montes, F. and Rotz, A. 2008. Dissociation and Mass Transfer Coefficients from Ammonium Solution and Dairy Cattle Manure. Submitted to *Transactions of the ASABE* on Sept 8, 2008.
- (in review) Montes, F. Rotz, A and Chaoui, H. 2008. Process Modeling of Ammonia Volatilization from Ammonium Solutions and Manure Surfaces: A review with Recommended Models. Submitted to *Transactions of the ASABE* on Sept 8, 2008.
- (in review) Chaoui, H. and Keener, H.M. Testing the fit of a model of the effectiveness of an electric field at repelling earthworms. Submitted to *Biosystems Engineering* in 2008.
- (in review) Chaoui, H. & Ehsani, R. Electric Field Efficiency in Containing Earthworms. Submitted to *International Journal of Agricultural Resources, Governance and Ecology (IJARGE)* in 2008.
- (in review) Chaoui, H., Richard, T. 2007. Effect of mixing frequency on biogas yield in biodigesters. *International conference on progress in biogas*. Submitted to *Bioresource technology* in 2008.

Conferences:

- Chaoui, H, Montes, F. and Rotz, A. 2008. Dissociation and Mass Transfer Coefficients for Ammonia Volatilization Models. *ASABE Annual International Meeting*. June 2008, Providence, Rhodes Island.
- Chaoui, H. 2008. Review of Innovative Technologies for Organic Farming. *ASABE Annual International Meeting*, June 2008, Providence, Rhodes Island.
- Chaoui, H., Richard, T. 2007. Effect of mixing frequency on biogas yield in biodigesters. *International conference on progress in biogas*. September 19, 2007 in Stuttgart, Germany. *ASABE Annual International Meeting*. June 2008, Providence, Rhodes Island.
- (Refereed) Chaoui, H., Brugger, M. 2007. A review and sensitivity analysis of odor setback distance models. *International Symposium on Air Quality and Waste Management for Agriculture*. September 15-19, 2007 in Broomfield, Colorado.
- Chaoui, H., Topper, P., Graves, R., Bruns, M.A., and Richard, T. 2007. The effect of compost and earthworms casts biofilters on dairy manure stack emissions. *ASABE Annual International Meeting*. Minneapolis, Minnesota.
- Chaoui, H. and Keener, H.M. Testing and Modeling the Effectiveness of an Electric Field at repelling earthworms. *ASABE Annual International Meeting Transactions*, 2006.
- Ehsani, R., Chaoui, H., Grejner-Brzezinska, D and Sullivan, M. A method of evaluating the performance of RTK GPS receivers used in Agriculture. 2006. *Proceedings of the World Congress on Agricultural Engineering, 2006* and *Proceedings of the Automation Technology for Off Road Equipment Conference*, 2006.
- Chaoui, et al. Modeling the Effectiveness of an Electric Field at repelling earthworms. *ASABE Annual International Meeting Transactions*, 2005.

Chaoui & Ehsani, 2004. Developing Field Containment Techniques of Earthworms to Increase Organic Fertilizer Efficiency. ASAE Annual International meeting transactions, 2004.

Chaoui, et al., 2002. Suppression of the plant diseases, Pythium (damping-off), Rhizoctonia (root rot) and Verticillium (wilt) by Vermicomposts. Proceedings of Brighton Crop Protection Conference- Pests and Diseases. Vol II, 8B-3, 711-716. *Cited 5 times in refereed articles.*