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### PUBLICATIONS

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#### 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.*
- 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. *8<sup>th</sup> most downloaded article in Soil Biology and Biochemistry Journal, 2003. Cited 25 times in refereed articles.*
- 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. Manuscript number SE-07681-2008
- 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. Manuscript number SE-07682-2008

#### In progress:

- Chaoui, H, Eckhoff, S., Hu, M-C, and Ting, K.C. 2009. Review of dry matter loss and recalcitrance in biomass storage. In internal review before being submitted to *Biomass and Bioenergy Journal*.
- 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. Submit to *Water Environment Research*.
- Chaoui, H. and Keener, H.M. Testing the fit of a model of the effectiveness of an electric field at repelling earthworms. Submit to *Biosystems Engineering*.
- Chaoui, H. & Ehsani, R. Electric Field Efficiency in Containing Earthworms. Submit to *International Journal of Agricultural Resources, Governance and Ecology (IJARGE)*.

#### Popular Science:

- Chaoui, H. Why urban farming needs to be organic. [www.Innovative-Science.com](http://www.Innovative-Science.com). In print (March 2010).

#### Conferences:

- Chaoui, H, Eckhoff, S., Hu, M-C, and Ting, K.C. 2009. Biomass Storage. In internal review before being submitted to *Biomass and Bioenergy Journal*. Providence, Rhodes Island. ASABE Annual International Meeting. Reno, Nevada.
- Chaoui, H, Montes, F. and Rotz, A. 2008. Dissociation and Mass Transfer Coefficients for Ammonia Volatilization Models. In internal review before being submitted to *Transactions of ASABE*. ASABE Annual International Meeting. Providence, Rhodes Island.
- Chaoui, H. 2008. Review of Innovative Technologies for Organic Farming. ASABE Annual International Meeting. June 3008 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.*