

- Brejda, J. J., Mausbach, M. J., Goebel, J. J., Allan, D. L., Dao, T. H., **Karlen, D. L., Moorman, T. B.**, and Smith, J. L. Estimating surface soil organic carbon content at a regional scale using the national resource inventory. *Soil Science Society of America Journal* 65(3), 842-848.
- Cambardella, C. A.**, Gajda, A. M., Doran, J. W., Wienhold, B. J., and Kettler, T. A. Estimation of particulate and total organic matter by weight loss-on-ignition. *Assessment Methods for Soil Carbon*. 349-359. Lewis Publishers. Lal, R., Kimble, J. M., Follett, R. F., and Stewart, B. A.
- Chan, A. S. and **Parkin, T. B.** Effect of land use on methane flux from soil. *Journal of Environmental Quality* 30(3), 786-797.
- Chan, A. S. and **Parkin, T. B.** Methane oxidation and production activity in soils from natural and agricultural ecosystems. *Journal of Environmental Quality* 30, 1896-1903.
- Engelhardt, B. E.**, Hart, G., **Hatfield, J. L.**, Buman, S., and Wernimont, J. Investigation corn nitrogen sufficiency at the field level. *Proc. 3rd Intl. Conf. Geospatial Information in Agriculture and Forestry*.
- Follett, R. F. and **Hatfield, J. L.** Nitrogen in the environment: Sources, problems, and management. *Optimizing Nitrogen Management in Food and Energy Production & Environmental Protection*. 920-926. Potomac, MD, Elsevier.
- Hatfield, J. L.** and **Prueger, J. H.** Increasing nitrogen use efficiency in midwestern cropping systems. *Optimizing Nitrogen Management in Food and energy Production and Environmental Protection*. 682-690. Potomac, MD.
- Hatfield, J. L.**, **Sauer, T. J.**, and **Prueger, J. H.** Managing soils to achieve greater water use efficiency: A review. *Agron. J.* 93(2), 271-280.
- Hundal, L. S., Thompson, M. L., **Laird, D. A.**, and Carmo, A. M. Sorption of phenanthrene by reference smectites. *Environmental Science and Technology* 35, 3456-3461.
- Jaynes, D. B.**, Ahmed, S. I., Kanwar, R. S., and Kung, K. J. Temporal dynamics of preferential flow to a subsurface drain. *J. Environ. Qual.* 65, 1368-1376.
- Karlen, D. L.** Visual soil assessment. *Journal of Soil and Water Conservation* 56, 270-271.
- Karlen, D. L.**, Clearfield, F., and Nowak, P. Conservation tillage and cropping innovation: Constructing the new culture of agriculture (a book review). *J. Soil Water Cons.* 56, 272-273.
- Kaspar, T. C.**, Radke, J. K., and Laflen, J. M. Small grain cover crops and wheel traffic effects on infiltration, runoff, and erosion. *J. Soil Water Conserv.* 56(2), 160-164.
- Keeney, D. R. and **Hatfield, J. L.** The nitrogen cycle, historical perspective, and current and potential future concerns. Follett, R. and Hatfield, J. L. *Nitrogen in the Environment*. 3-16. New York, NY, Elsevier Press.

- Lee, J., Noborio, K., Horton, R., and **Jaynes, D. B.** Characterization of preferential flow in undisturbed, structured soil columns using a vertical TDR probe. *Journal of Contaminant Hydrology* 51, 131-144.
- Manies, K. L., Harden, J. W., **Kramer, L. A.**, and Parton, W. J. Carbon dynamics within agricultural and native sites in the loess region of western Iowa. *Global Change Biology* 7, 545-555.
- Martens, D. A.** Nitrogen cycling under different soil management systems. *Advances in Agronomy* 70, 143-192.
- Mbila, M. O., Thompson, M. L., Mbagwua, J. S., and **Laird, D. A.** Distribution and movement of sludge-derived trace metals in selected Nigerian soils. *J. Environ. Qual.* 30, 1667-1674.
- Meek, D. W.** A numerical method for estimating the scale of fluctuation. *Computers and Geoscience* 27(10), 1243-1249.
- Meek, D. W.** and **Hatfield, J. L.** Iowa's surface albedo variability in space and time throughout the 1990 growing season. *Remote Sensing and Hydrology* , 225-227. Proceedings of a symposium held at Sante Fe, NM, April 2000. IAHS Publ. No. 267, 2001.
- Moorman, T. B.**, Cowan, J. K., Arthur, E. L., and Coats, J. R. Organic amendments to enhance herbicide biodegradation in contaminated soils. *Biology and Fertility of Soils* 33, 541-545.
- Moorman, T. B.**, Jayachandran, K., and Reungsang, A. Adsorption and desorption of atrazine in soils and subsurface sediments. *Soil Science* 166(12), 921-929.
- Sauer, T. J.**, Alexander, R. B., Brahana, J. V., and Smith, R. A. The importance and role of watersheds in the transport of nitrogen. Follett, R. and **Hatfield, J. L.** *Nitrogen in the Environment: Sources, Problems, and Management.* 147-181.
- Zahn, J. A.**, **Hatfield, J. L.**, **Laird, D. A.**, Do, Y. S., and Dispirito, A. A. Functional classification of swine manure management systems based on effluent and gas emission characteristics. *Journal of Environmental Quality* 30, 635-641.
- Zahn, J. A.**, Tung, A. E., Roberts, B. A., and **Hatfield, J. L.** Abatement of ammonia and hydrogen sulfide emissions from a swine lagoon using a polymer biocover. *Journal of Air and Waste Management Association* 51, 562-573.
- Zahn, J. A.**, Dispirito, A. A., Do, Y. S., Brooks, B. E., Cooper, E. E., and **Hatfield, J. L.** Correlation of human olfactory responses to airbourne concentrations of malodorous volatile organic compounds emitted from swine effluent. *Journal of Environmental Quality* 30, 624-634.
- Zahn, J. A.**, A. A. Dispirito, Y. S. Do, B. E. Brooks, E. E. Cooper and **J. L. Hatfield.** 2001. Correlation of human olfactory responses to airborne concentrations of malodorous volatile organic compounds emitted from swine effluent. *J. Environ. Qual.* 30: 624-634.
- Zahn, J. A.**, A. E. Tung, B. A. Roberts and **J. L. Hatfield.** Abatement of ammonia and hydrogen sulfide emissions from a swine lagoon using a polymer biocover. *J. Air & Waste Management Assn.* 51: 562-573.

**Zahn, J. A., J. L. Hatfield, D. A. Laird, Y. S. Do and A. A. Dispirito.** Functional classification of swine manure management systems based on effluent and gas emission characteristics. *J. Environ. Qual.* 30: 635-647.