

Laosheng Wu Publications List

[Superscripts: ^{PD} = Post-Doctorate, ^{VS} = Visiting Scientist, ^{CL} = Collaborator, ^{AD} = Advisor, ST = Student, ^{SRA} = Scientific Research Associate, ^{VS} = Visiting Scientist]

1. Yu, J.^{AD}, S. R. Zhan^{CL}, L. Wu, and Z.X. Zhu^{AD}. 1986. The magnetic susceptibility of soils in tropical and subtropical China. *Acta Pedologic Sinica*. 23:50-56.
2. Wu, L., J.A. Vomocil^{AD}, and S.W. Childs^{AD}. 1990. Particle size, aggregate size, pore size, and water retention. *Soil Sci. Soc. Am. J.* 54:952-956.
3. Logsdon, S.D.^{CL}, R.R. Allmaras^{AD}, L. Wu, and J.B. Swan^{AD}. 1990. Macroporosity and its relation to saturated hydraulic conductivity under different tillage practices. *Soil Sci. Soc. Am. J.* 54:1096-1101.
4. Wu, L., J.B. Swan^{AD}, W.H. Paulson^{CL}, and G.W. Randall^{CL}. 1992. Tillage effects on measured hydraulic properties. *Soil & Tillage Research*. 25:17-33.
5. Wu, L., J.B. Swan^{AD}, J.L. Nieber^{AD}, and R.R. Allmaras^{AD}. 1993. Soil-macropore and layer influences on saturated hydraulic conductivity measured with borehole permeameters. *Soil Sci. Soc. Am. J.* 57: 17-923.
6. Wu, L., J.B. Swan^{AD}, R.R. Allmaras^{AD} and S.D. Logsdon^{CL}. 1995. Tillage and traffic influences on water and solute transport in corn-soybean systems. *Soil Sci. Soc. Am. J.* 59:185-191.
7. Wu, L., J.M. Baker^{AD}, and R.R. Allmaras^{AD}. 1995. Numerical and field evaluation of soil water sampled by suction lysimeters. *J. of Environ. Quality*. 24:147-152.
8. Wu, L., R.R. Allmaras^{AD}, J. B. Lamb^{CL}, and K. E. Johnsen^{CL}. 1996. Model sensitivity to measured and estimated hydraulic properties of a Zimmerman fine sand. *Soil Sci. Soc. Am. J.* 60:1283-1290.
9. Wu, L., W. A. Jury^{CL}, A.C. Chang^{CL}, and R.R. Allmaras^{AD}. 1997. Time-series analysis of field-measured water content of a sandy soil. *Soil Sci. Soc. Am. J.* 61:736-742.
10. Pang, X.^{PD}, J. Letey^{CL}, and L. Wu. 1997. Yield and nitrogen uptake prediction by CERES-Maize model under semiarid conditions. *Soil Sci. Soc. Am. J.* 61:254-256.
11. Pang, X.^{PD}, J. Letey^{CL}, and L. Wu. 1997. Irrigation quantity and uniformity and nitrogen application effects on crop yield and nitrogen leaching. *Soil Sci. Soc. Am. J.* 61:257-261.
12. Wu, L. and L. Pan^{PD}. 1997. A generalized solution to infiltration from single-ring infiltrometers by scaling. *Soil Sci. Soc. Am. J.* 61:1318-1322.
13. Wu, L., R.R. Allmaras^{AD}, D. Gimenez^{CL}, and D.M. Huggins^{CL}. 1997. Shrinkage and water retention characteristic in a fine-textured Mollisol compacted under different axle loads. *Soil & Tillage Res.* 44:179-194.
14. Wu, L., L. Pan^{PD}, M. J. RobersonST, and P. J. Shouse^{CL}. 1997. Numerical evaluation of ring-infiltrimeters under various soil conditions. *Soil Sci.* 162:771-777.
15. Pan, L.^{PD} and L. Wu. 1998. A hybrid global optimization method for inverse estimation of hydraulic parameters: Annealing-Simplex method. *Water Resource Res.* 34:2261-2269.

16. Flury, M.^{CL}, Q. J. Wu^{CL}, L. Wu, and L. Xu^{PD}. 1998. Analytical solution for solute transport with depth-dependent transformation or sorption coefficients. *Water Resource Res.* 34:2931-2937.
17. Wu, L., W. Chen^{CL}, J. M. Baker^{AD}, and J. B. Lamb^{CL}. 1999. Evaluation of the Root Zone Water Quality Model using field measured data from a sandy soil. *Agron. J.* 91:177-182.
18. Wu, L., L. Pan^{PD}, J. Mitchell^{CL}, B. Sanden^{CL}. 1999. Measuring saturated hydraulic conductivity using a generalized solution for single-ring infiltrometers. *Soil Sci. Soc. Am. J.* 63:788-792.
19. Wang, Z.^{PD}, L. Wu, and Q. J. Wu^{CL}, 2000. Water-entry value as an indicator of soil water repellency and wettability, *Journal of Hydrology.* 231-232: 76-83.
20. Wang, Z.^{PD}, Q.J. Wu^{CL}, L. Wu, C.J. Ritsema^{CL}, L.W. Dekker^{CL}, and J. Feyen^{CL}, 2000. Effects of soil water repellency on infiltration rate and flow instability. *Journal of Hydrology.* 231-232: 265-276.
21. Leung, S.^{PD}, L. Wu, J. Mitchell^{CL}, and B. Sanden^{CL}. 2000. Nitrate leaching and soil nitrate content as affected by irrigation uniformity in a carrot field. *Agri. Water Management.* 48:37-50.
22. Mitchell, J. P.^{CL}, S.E. Allaire-Lueng^{PD}, J. B. Sanden^{CL}, L. Wu. 2000. Sprinkler spacing does not affect carrot Yield and Quality. *HortTechnology* 10:370-373.
23. Feng, G.^{PD}, J. Letey^{CL}, L. Wu. 2001. Water ponding depths affect temporal infiltration rates in a water-repellent sand. *Soil Sci. Soc. Am. J.* 65:315-320.
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25. Wu, L., T. Skaggs^{CL}, P. Shouse^{CL} and J. Ayas^{CL}. 2001. State space analysis of soil water and salinity regimes in a loam soil underlain by shallow groundwater. *Soil Sci. Soc. Am. J.* 65:1065-1074.
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30. Liu^{VS}, G., L. Wu, J. Zhang^{CL}, Y. Li^{CL}. 2002. Four Pesticides Partitioning features in turf grass and comparison between two simulation models. *ACTA SCIENTIAE CIRCUMSTANTIAE* 22:261-266.
31. Wang, Z.^{PD}, J. Lu^{PD}, L. Wu, T. Harter^{CL}, W. A. Jury^{CL}. 2002. Visualizing preferential flow paths using ammonium carbonate and a pH indicator. *Soil Sci. Soc. Am. J.* 66:347-351.
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33. Lu, J.^{PD}, Laosheng Wu, John Letey^{CL}, and Walter J. Farmer^{CL}. 2002. Anionic Polyacrylamide Effects on Soil Sorption and Desorption of Metolachlor, Atrazine, 2,4-D, and Picloram. *J. Environ. Qual.* 31: 1226-1233.
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48. Wu, L., J. Letey^{CL}, C. French^{SRA}, Y. Wood^{PD}, and D. Birkle^{SRA}. 2005. Nitrate leaching index for irrigated agriculture. *J. of Soil & Water Conservation.* 60: 90A-95A.
49. Newman, J., K. Gilbert, B. Faber, D. Merhaut, L. Wu, J. Gan, R. Evans. 2005. University of California Water Quality Program for Floriculture and Nursery Growers in Ventura and Los Angeles Counties. *HortScience* 40:1017.
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51. French, C.ST, L. Wu, T. Meixner^{CL}, D. Haver^{AD}, J. Kabashima^{AD} and W. A. Jury^{CL}. 2006. Modeling nitrogen transport in the Newport Bay/San Diego Creek watershed of Southern

- California. *Agricultural Water Management*. 81: 199-215.
52. Lu^{PD}, Jianhang, Laosheng Wu, Julie Newman^{AD}, Ben Faber^{AD}, Donald J. Merhaut^{CL}, and Jianying Gan^{CL}. 2006. Sorption and Degradation of Pesticides in Nursery Recycling Ponds. *J. Environ. Qual.* 35:1795-1802.
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 56. Chen^{PD}, Weiping, Andrew C. Chang^{CL}, and Laosheng Wu. 2007. Assessing Long-term Environmental Risks of Trace Elements in Phosphate Fertilizers. *Ecotoxicology and Environmental Safety*. 67:48-58.
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 58. Wood, Y.A.^{PD}, M. Fenn^{CL}, T. Meixner^{CL}, P. J. Shouse^{CL}, J. BreinerST, E. Allen^{CL}, and L. Wu. 2007. Smog nitrogen and the rapid acidification of forest soil, San Bernardino Mountains, southern California. *The Scientific World J.* 7:175-180.
 59. Zhang^{CL}, Yiqiang, Jianhang Lu^{PD}, Laosheng Wu, Andrew Chang^{CL}, and William T. Frankenberger Jr.^{CL} 2007. Simultaneous Removal of Chlorothalonil and Nitrate by *Bacillus cereus* Strain NS1. *Sci. Total Environ.* 383: 383-387.
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 66. Mangiafico, S.S., J. Newman, D. Merhaut, J. Gan, L. Wu, J. Lu, B. Faber, and R. Evans. 2008. Detention and recycling basins for managing nutrient and pesticide runoff from nurseries. *HortScience*. 43:393-398.

67. Chen, W.P., L.S. Wu, W.T. Frankenberger, Jr., and A.C. Chang. 2008. Soil Enzyme Activities of Long-term Reclaimed Wastewater Irrigated Soils. *Journal of Environmental Quality* 37: S36-42.
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