

CRSS Refereed Publications CY 1999-2005

Domy Adriano

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Lombi, E., W. W. Wenzel, and D. C. Adriano, 1998. Soil contamination, risk reduction and remediation. *Land Contam. Reclam.* 6(4):183-197.

Adriano, D. C., A. Doswell, T. Ciravalo, J. Pinder, and K. W. McLeod. 2000. Effect of culinary preparation on radionuclide content in tuber crops. *J. Environ. Radioactivity.* 49:307-317.

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Adriano, D.C. and J.T. Weber. 2001. Influence of fly ash on soil physical properties and turfgrass establishment. *J. Environ. Qual.* 30: 596-601.

Punshon, T., D.C. Adriano, and J.T. Weber. 2001. Effect of FGD residue on plant establishment and soil and leachate quality. *J. Environ. Qual.* 30: 1071-1080.

Wenzel, W.W., N. Kirchbaumer, T. Prohaska, G. Stinger, E. Lombi and D.C. Adriano. 2001. Arsenic fractionation in soils using an improved sequential procedure. *Anal. Chim. Acta.* 436: 309-323.

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Wenzel, W.W., A. Brandstetter, H. Wutte, E. Lombi, T. Prohaska, G. Stinger, and D.C. Adriano. 2002. Arsenic in field-collected soil solutions and extracts of contaminated soils and its implications to new soil standards. *J. Plant Nutr. Soil. Sci.* 165:221-228.

Geebelen, W., J. Vangronsveld, D.C. Adriano, R. Carleer, and H. Clijsters. 2002. Amendment-induced immobilization of lead in a lead-spiked soil: Evidence from phytotoxicity studies. *Water Air Soil Pollut.* 140:261-277.

Geebelen, W., J. Vangronsveld, D.C. Adriano, L.C. Van Poucke, and H. Clijster. 2002. Effects of Pb-EDTA and EDTA on oxidative stress reactions and mineral uptake in *Phaseolus vulgaris*. *Physiol. Plantarum.* 115:377-384.

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Adriano, D.C., N.S. Bolan, B.J. Koo, R. Naidu, D. vander Lelie, J. Vangronsveld, and W.W. Wenzel. 2002. Natural remediation process: bioavailability interactions in contaminated soils. In: Proceedings of 17th Congress of International Union of Soil Science. Bangkok, Thailand (August 14-21, 2002).

Bollag, J.M., J. Berthelin, D.C. Adriano, and P.M. Huang. 2002. Impact of soil-organic component-microorganisms interactions on restoration of terrestrial ecosystems. In: Proceedings of 17th Congress of International Union of Soil Science, Bangkok, Thailand (August 14-21, 2002).

Adriano, D.C., J. Weber, N.S. Bolan, and B.J. Koo. 2002. Effects of high rates of coal fly ash on soil, turfgrass and groundwater quality. *Water Air Soil Pollut.* 139:365-385.

Bolan, N.S. and D.C. Adriano. 2001. Spurious statistical relationship-implications to modeling adsorption data. *NZ Soil News.* 49:139-140.

Bolan, N.S. and D.C. Adriano. 2001. Rhizosphere, the twilight zone of the hidden half. *Soil Sediments Groundwater. Association of Environmental Health and Sciences.* New Zealand.

2003

Adriano, D.C., T. Nemeth and Z. Gyori, eds. 2003. Natural attenuation of metals along the Tisza River – floodplain – wetlands continuum. Licium – Art Ltd., Debrecen, Hungary. 207 pages (ISBN 963 472 7263).

Naidu, R., V. Gupta, S. Rogers, R. Kookana, N.S. Bolan, and D.C. Adriano, eds. 2003. Bioavailability, Toxicity and Risk Relationships in Ecosystems. Science Publishers, Inc., Plymouth, U.K. 344 pages.

Adriano, D.C. 2003. Natural attenuation processes – bioavailability interactions in contaminated soils. In Adriano, D.C., T. Nemeth and Z. Gyori, eds. Natural attenuation of metals along the Tisza River – floodplain – wetlands continuum. Licium – Art Ltd., Debrecen, Hungary.

Bujtas, K., A.S. Knox, I. Kadar, and D.C. Adriano. 2003. Plant-soil relationships from micro to macro scale, p.175-204. In: Bioavailability-risk relationships in contaminated environments. R. Naidu et al., eds. Science Publishers, Inc., Plymouth, U.K. 344 pages.

Wenzel, W.W., E. Lombi, and D.C. Adriano. 2003. Root and rhizosphere processes in metal hyperaccumulation and phytoremediation technology. In *Heavy metal stress in plants: from molecules to ecosystems*, N.M.V. Prasad and J. Hagemeyer, eds., 2nd edition. Springer, Heidelberg, Germany (Invited).

Bolan, N.S., D.C. Adriano, and R. Naidu. 2003. Role of phosphorus in (im)mobilization and bioavailability of metals in soil-plant system. *Rev. Environ. Contam. Toxicol.* 177:1-44 (Invited).

- Bolan, N.S., D.C. Adriano, and D. Curtin. 2003. Soil acidification and liming interactions with nutrient and heavy metal transformation and bioavailability. *Adv. Agron.* 72:215-272. Academic Press, New York (Invited).
- Naidu, R., N.S. Bolan, and D.C. Adriano. 2003. Bioavailability, toxicity and risk relationships in ecosystems: The path ahead, p.331-339. In R. Naidu, V.V. Gupta, S. Rogers, R.S. Kookana, N.S. Bolan, and D.C. Adriano, eds. *Bioavailability, Toxicity and Risk Relationships in Ecosystems*. Science Publishers, Inc, Plymouth, U.K. 344 pages.
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- Bolan, N.S., D.C. Adriano, S. Natesan, and Bon-Jun Koo. 2003. Effects of organic amendments on the reduction and phytoavailability of chromate in mineral soil. *J. Environ. Qual.* 32:120-128.
- Bolan, N.S., D.C. Adriano, D. Duraisamy, A. Mani, and P. Arulmozhiselvan. 2003. Immobilization and phytoavailability of cadmium in variable charge soils: I. Effects of phosphate addition. *Plant and Soil* 250:83-84.
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- Bolan, N.S., J. Donaldson, D.C. Adriano, and C. Mathew. 2003. Distribution and bioavailability of copper in farm effluent. *Sci. Total Environ.* 309:225-236.
- Bolan, N.S., D.C. Adriano, S. Mani, and A.M. Khan. 2003. Adsorption, complexation and phytoavailability of copper as influenced by organic manure. *Environ. Toxicol. Chem.* 22:450-456.
- Bolan, N.S., C. Mowatt, and D.C. Adriano. 2003. Removal of ammonium ions from fellmongery effluent by zeolite. *Commun. Soil Sci. Plant Anal.* 34:231-241.
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- Barton, C., D. Marx, J. Blake, D. Adriano, B.J. Koo and S. Czapka. 2003. 488-D Ash Basin Vegetative Cover Treatability Study. Final Report 02. Westinghouse

John Glen Andrae

2001

Andrae, J.G., C.W. Hunt, G.T. Pritchard, L.R. Kennington, J.H. Harrison, W. Kezar and W. Mahanna. 2001. Effect of hybrid, maturity and mechanical processing of corn silage on intake and digestibility by beef cattle. *J. Anim. Sci.* 79:2268-2275.

Duckett, S.K. and J.G. Andrae. 2001. Implant strategies in an integrated beef production system. *J. Anim. Sci.* 79(E suppl):1-8.

Andrae, J.G., S.K. Duckett, C.W. Hunt, S. Soderlund, F.N. Owens. 2001. Effects of high oil corn on carcass characteristics, tenderness and longissimus fatty acid composition of steers fed finishing diets. *J. Anim. Sci.* 79:582-588.

Duckett, S.K., J.G. Andrae, G.T. Pritchard, T.A. Skow, S.L. Cuvala, J.H. Thorngate and W.K. Sanchez. 2001. Effects of pre-slaughter administration of oral calcium gel to beef cattle on tenderness. *Can. J. Anim. Sci.* 81:33-38.

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Duckett, S.K., J.G. Andrae, and F.N. Owens. 2002. Effect of high-oil corn or added corn oil on ruminal biohydrogenation of fatty acids and conjugated linoleic acid formation in beef steers fed finishing diets. *J. Anim. Sci.* 80:3353-3360.

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Roberts, C.A., and J.G. Andrae. 2004. Tall fescue toxicosis and management. Online. Crop Management doi:10.1094/CM-2004-0427-01-MG. This management guide is now used as the "standard" or "model" for all other management guides written for this journal

Kevin Armbrust

2002

Armbrust, K.L. (2000). *Pesticide Hydroxyl Radical Rate Constants: Measurements and Estimates of Their Importance in Aquatic Environments*. Environmental Toxicology and Chemistry v. 19 no. 9. pp. 110-117.

John Baldwin

2000

Culbreath, A. K., J.W. Todd, D.W. Gorbet, S.L. Brown, J. A. Baldwin, H.R. Pappu, C.C. Holbrook, and F.M. Shokes. 1999. Characterization of the Effects of Early, medium, and late maturing peanut breeding lines on epidemics of Tomato Spotted Wilt. Peanut Science 38:

Johnson, C. W., and J. A. Baldwin, 2000 Winter Fallow Management of Volunteer Peanut and Cutleaf Evening Primrose. Peanut Science 39: (In Press, accepted Oct, 2000)

Culbreath, A.K., J. W. Todd, D. W. Gorbet, S. L. Brown, J.A. Baldwin, H.R. Pappu, and F. M. Shokes. 2000. Reaction of Peanut Cultivars to Spotted Wilt Peanut Science 39.

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John Beasley Jr.

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Rowland, D., P. Blankenship, N. Puppala, J.P. Beasley, Jr., M. Burow, D. Gorbet, D. Jordan, H. Melouk, C. Simpson, and J. Bostick. 2004. Variation in water-use efficiency of peanut varieties across peanut production regions. New directions for a diverse planet. Proc. of the 4th International Crop Science Congress, Brisbane, Australia (www.cropscience.org.au).

Rowland, D., J. Dorner, R. Sorensen, J.P. Beasley, Jr., and J. Todd. 2005. Progression of tomato spotted wilt virus through peanut tissue types and physiological effects related to disease incidence and severity. *Plant Pathology* 54: 431-440.

Craig Bednarz

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Bednarz, C.W., D.C. Bridges and S.M. Brown. 2000. Analysis of cotton yield stability across population densities. *Agronomy J.*, 92:128-135.

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Holman, E.M. and C.W. Bednarz. 2001. Alley effect on several cotton cultivars in small plot research. *Commun. Soil Sci. Plant Anal.*, 32 (1-2):119-126.

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Bednarz, C.W. and P.M. Roberts. 2001. Spatial yield distribution in cotton following early season fruit removal. *Crop Sci.*, 41:1800-1808.

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Paul Bertsch

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Roger Boerma

2000

Bianchi-Hall, C.M., T.E. Carter, Jr., M.A. Bailey, M.A.R. Mian, T.W. Rufty, D.A. Ashley, H.R. Boerma, C. Arellano, R.S. Hussey, and W.A. Parrott. 2000. Aluminum tolerance associated with quantitative trait loci derived from soybean PI416937 in hydroponics. *Crop Sci.* 40: 538-545.

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