



Name: Zhenli L. He

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Education:

B.S. Soil Science and Plant Nutrition, Zhejiang University, 1981

M.S. Soil Chemistry and Fertility, Zhejiang University, 1984

Ph.D. Soil Chemistry and Environmental Sciences, 1988

Research Interests (with focus on Tropical Agriculture)

Biogeochemistry of nutrients and contaminants in tropical soils and the environment, with particular interests in nutrient and waste management and water quality, soil fertility and citrus nutrition including best management practices, total maximum daily loads, and carbon sequestration in sandy soils.

Vieira, F. C. B., C. Bayer, J.A. Zanatta, J. Dieckow, J. Mielniczuk, and Z. L. He. 2007. Carbon management index based on physical fractionation of soil organic matter in an Acrisol under long-term no-till cropping system. *Soil & Tillage Res.* 96(1-2): 195-204 (Oct).

He, Z. L., M. Zhang, X. E. Yang, and P. J. Stoffella. 2006. Release behavior of copper and zinc from sandy soils. *Soil Sci. Soc. Am. J.* 70:1699-1707.

He, Z. L., M. K. Zhang, P. J. Stoffella, X. E. Yang and D.J. Banks, and D.V. Calvert. 2006. Phosphorus Concentrations and Loads in Surface Runoff from Sandy Soils under Crop Production. *Soil Sci. Soc. Am. J.* 70:1807-1816.

He, Z. L., M. K. Zhang, D. V. Calvert, P. J. Stoffella, X. E. Yang, and S. Yu. 2004. Transport of heavy metals in surface runoff from vegetable and citrus fields in Florida, USA. **Soil Sci. Soc. Am. J.** 68: 1662-1669.

He, Z. L., D. V. Calvert, A. K. Alva, D. J. Banks, and Y. C. Li. 2003. Thresholds of leaf nitrogen for optimum production and quality in grapefruit. **Soil Sci. Soc. Am. J.** 67: 583-588.

He, Z. L., X. E. Yang, V. C. Baligar, and D. V. Calvert. 2003. Microbiological and biochemical indexing systems for assessing acid soil quality. **Adv. Agron.** 78: 89-138.

Extramural Fund

Date	Value	Funding Agency	Title	Role
2006 – 2009	\$206,758	Water Management Districts	Soil Amendment to Reduce N, P and Heavy Metal in Surface Run Off from Citrus Groves in the Indian River Area	PI
2005 – 2009	\$365,251	Water Management Districts	Phytoremediation to Remove Nitrogen And Phosphorus from Stormwaters in Detention Water Systems	PI
2007 - 2009	\$95,002	FL Inst of Phosphate Research	Development of DPR Fertilizers Using Dolomite Phosphate Rock and Biosolids for Citrus and Vegetable Crops (Phase II)	PI
2007- 2008	\$50,000	Water Management District	Biogeochemical Approaches to Minimize Sediment Colloidal Suspension	PI
2005 - 2009	\$40,000	U S Dept of Agriculture	Evaluation of Soil Quality Parameters in Tropical Soils And assessment of Elemental Composition in Tropical Crops	PI
2005- 2009	\$415,594	Water Management Districts	Correlation among Rainfall Events, Nutrients and Phytoplankton Composition in Ten Mile Creek and the St. Lucie River Estuary	Co-PI
2003 - 2007	\$177,587	FL Inst of Phosphate Research	Development of DPR Fertilizers Using Dolomite Phosphate Rock and Biosolids for Citrus and Vegetable Crops (Phase I)	PI
2004 - 2007	\$304,850	Dept Of Agric & Consumer Ser	Use of Organic Amendments to Reduce Loads of Nitrogen and Phosphorus in Surface Runoff from Citrus Groves and Vegetable Farms	Co-PI
2005 - 2006	\$15,624	Water Management Districts	Soil Amendments to Reduce Nitrogen, Phosphorus, and Heavy Metals (Including Copper) in Surface Runoff from Citrus.	Co-PI
2004 - 2006	\$50,015	TETRA Tech Inc.	Use of Calcium Chloride to Reduce Phosphorus Loading In Surface Runoff from Vegetable Farms	PI
2003 - 2006	\$42,000	FL N-Viro	Development of Slow Release Fertilizers Using Dolomite Phosphate Rock and N-Viro Soil	PI

Teaching Interests (with focus on Tropical Agriculture)

Currently teach two courses for undergraduate (SOS3022L Soil Science Lab and ALS3133 Agriculture and Environmental Quality) and one course for graduate (SOS6134 Soil Quality).

International Activities (with focus on Tropical Agriculture)

International Steering Committee Member International Symposium on Green Technology and Ecosystem Health	2007-Present
International Steering Committee Member International Symposium on Trace Elements and Ecosystem Health	2004-Present
Chair, Sustainable Agriculture Division International Society of Food, Agriculture & Environment	2003- 2006
International Steering Committee Member International Symposium on Plant-Soil Interactions at Low pH	1996-2005
International Union of Soil Science	1989-present