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科研项目

著作论文

获奖情况

课题组成员

个人经历

教育经历:

华中农业大学土化系土壤与植物营养专业, 获农学学士学位 (1989-1993)

华中农业大学土化系土壤与植物营养专业, 获博士学位 (1993-1999)

华中农业大学作物遗传改良国家重点实验室进行客座研究 (1996-1998)

工作经历:

中国科学院南京土壤研究所, 博士后 (1999-2001)

中国科学院南京土壤研究所, 副研究员 (2001-2010)

中国科学院南京土壤研究所土壤肥力与植物营养研究室, 副主任 (2007-)

中国科学院南京土壤研究所, 研究员 (2010-)、博士生导师 (2011-)

德国李比希大学植物营养研究所, 访问学者 (2003-2003)

日本国际农业研究中心, 客座研究 (2003-2004)

目前还兼任中共南京土壤研究所植物营养与化学环保支部书记、中国土壤学会青年工作委员会、土壤肥力与肥料专业委员会委员以及中国磷肥工业协会理事理事。

科研项目

TOP

课题名称	负责人	课题来源	起止时间
肥际微域氮磷转化与控制机理	王火焰	973项目子课题	2007-2011
黑龙江海伦耕地土壤质量分等定级与生产潜力评估	王火焰	中科院创新工程重大项目“耕地保育与持续高效现代农业试点工程”子课题	2007-2011
维持作物高产和土壤钾素平衡的农田钾素施用模式研究	周健民、王火焰	国际钾肥研究所国际合作项目	2009-2013
土壤非交换态钾的释放机制、速率表征与生物有效性分级	王火焰	国家自然科学基金面上项目	2010-2012
水稻小麦合理施钾的土壤、植物测定方法和指标体系研究	王火焰	国际植物营养研究所国际合作项目	2011-2013
基于化工固废处理副产品(2,5-二氯硝基苯)硝化抑制作用的新型氮肥增效剂开发与应用	王火焰	江苏省科技支撑计划项目	2011-2014
钾肥高效利用与替代技术研究	周健民、王火焰	农业部行业专项	2012-2016
稻麦肥际-根际养分过程与养分高效的根区施肥模式研究	王火焰	国家自然科学基金面上项目	2013-2016
氮肥损失阻控与高效利用机理	王火焰	973项目第1课题	2013-2017

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3. Xie W J, Wang H Y, Xia J B, Yao Z G. Influence of N, P, and K application on Zea mays L. growth and Cu and Pb accumulation. *Plant Soil and Environment*, 2011, 57(3): 128-134
4. Gan F Q, Zhou J M, Wang H Y, Du C W, Zhang W Z, Chen X Q. Phosphate adsorption on granular palygorskiite: Batch and column studies. *Water Environment Research*, 2011, 83 (2): 147-153(7)
5. Xie W J, Zhou J M, Wang H Y, Liu Q, Xia J B, Lv X J. Cu and Pb accumulation in maize (Zea mays L.) and soybean (Glycine max L.) as affected by N, P and K application. *African Journal of Agricultural Research*, 2011, 6(6): 1469-1476
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7. Du C W, Deng J, Zhou J M, Wang H Y, Chen X Q. Characterization of greenhouse soil properties using mid-infrared photoacoustic spectroscopy. *Spectroscopy Letters*, 2011, 44: 359-368
8. Du C W, Lei M J, Zhou J M, Wang H Y, Chen X Q, Yang Y H. Effect of long-term fertilization on the transformations of water-extractable phosphorus in a fluvo-aquic soil. *Journal of Plant Nutrition and Soil Science*, 2011, 174(1): 20-27
9. Zeng Q L, Chen R F, Zhao X Q, Wang H Y, Shen R F. Characteristic of Al uptake and accumulation in *Camellia oleifera* Abel an Al accumulator. *Pedosphere*, 2011, 21(3): 358-364
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12. Du C W, Zhou G Q, Wang H Y, Chen X Q, Zhou J M. Depth profiling of clay-xanthan complexes using step-scan mid-infrared photoacoustic spectroscopy. *Journal of Soils and Sediments*, 2010, 10: 855-862
13. Du C W, Zhou G Q, Zhou J M, Wang H Y, Chen X Q, Dong Y H, Wang H. Characterization of animal manures using mid-infrared photoacoustic spectroscopy. *Bioresource Technology*, 2010, 101(15): 6273-6277
14. Hang X S, Wang H Y\*, Zhou J M. Soil heavy metal distribution and transference to soybeans surrounding an electroplating factory. *Acta Agriculturae Scandinavica, Section B - Soil & Plant Science*, 2010, 60(2): 144-151
15. Wang H Y\*, Sun H X, Zhou J M, Cheng W, Du C W, Chen X Q. Evaluating plant-available potassium in different soils using a modified sodium tetraphenylboron method. *Soil Science*, 2010, 175(11): 544-551
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- solution by thermally treated natural palygorskite. *Water Research*, 2009, 43(11): 2907-2915
21. Du C W, Zhou J M, Wang H Y, Chen X Q, Zhu A N, Zhang J B. Determination of soil properties using Fourier transform mid-infrared photoacoustic spectroscopy. *Vibrational Spectroscopy*, 2009, 49 (1): 32-37
  22. Hang X S, Wang H Y\*, Zhou J M, Ma C L, Du C W, Chen X Q. Risk assessment of potentially toxic element pollution in soils and rice (*Oryza sativa*) in a typical area of the Yangtze River Delta. *Environmental Pollution*, 2009, 157: 2542-2549
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## 获奖项目

TOP

1. 2010年获得江苏省科学进步一等奖（排名第六）
2. 2011年获得江苏省“333高层次人才培养工程”中青年科学技术带头人荣誉称号



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