

院士

国家杰出青年

百人计划

研究员

副研究员

科研队伍

客座人员

● 研究员

当前位置: 人才培养 >> 研究员



张佳宝

邮 箱: jbzhang@issas.ac.cn

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:

南京农业大学, 获工学学士学位 (-1982)

中国科学院南京土壤研究所, 获硕士学位 (-1985)

国际水稻研究所农业工程系/菲律宾大学, 获土壤物理学博士学位 (-1990)

工作经历:

中国科学院南京土壤研究所工作 (1990-)

中国科学院南京土壤研究所, 副研究员 (1992-1997)

中国科学院南京土壤研究所, 研究员、中科院研究生院教授、博士生导师 (1997-)

美国加州大学(Riverside)合作研究 (1994-1995)

分赴澳大利亚墨尔本大学土地与粮食学院、CSIRO 水土研究所Gri ffi th实验室; 德国Hohenhem大学土壤系、Hei del berg大学环境物理所; 日本九州大学生物生长环境模拟实验室等开展为期2-3个月短期合作研究共8次 (1997-2002)

2005年和2011年两次被科技部聘任为国家重点基础研究计划—973项目首席科学家。目前兼任中国生态系统研究网络 (CERN) 科学委员会副主任, 中国土壤学会土壤物理专业委员会主任, 中国土壤学会理事; 《Environmental Science and Pollution Research》、《土壤肥料与植物营养学报》、《生态学杂志》、《土壤》和《土壤与作物》等期刊编委。

科研项目

TOP

课题名称	作用	课题来源	起止时间
我国粮食主产区农田地力提升机理与定向培育对策	首席科学家	国家973项目	2011-2015
国家小麦产业体系—土壤改良岗位	岗位科学家	国家现代农业产业技术体系稳定支持项目	2011-2015

著作论文

TOP

1. Yang, WL; Zhu, AN; Zhang, JB; Zhang, YJ ; He, Y; Wang, LM ; Chen, XM ; Chen, WC. Use of Open-Path TDL Technique and the Backward Lagrangian Stochastic Model to Monitor Ammonia Emission from Summer Maize Field. *SPECTROSCOPY AND SPECTRAL ANALYSIS*, 2012, 32(11): 3107-31119
2. Zhang XK, Li Q, Zhu AN, Liang WJ, Zhang JB, Steinberger Y. Effects of tillage and residue management on soil nematode communities in North China. *Ecological Indicators*, 2012, 13: 75-81
3. Huang P, Zhang J B, Zhu A N, Xin X L, Zhang C Z, Ma D H. Atmospheric deposition as an important nitrogen load to a typical agroecosystem in the Huang-Huai-Hai Plain. 1. Measurement and preliminary results. *Atmospheric Environment*, 2011, 45: 3400-3405

4. Zhang C Z, Zhang J B, Zhao B Z, Zhu A N, Zhang H, Huang P, Li X P. Coupling a two-tip linear mixing model with a delta D-delta(18)O plot to determine water sources consumed by maize during different growth stages. *Field Crops Research*, 2011, 123: 196-205
5. Li X P, Zhang J B, Liu J T, Liu J L, Zhu A N, Lv F, Zhang C Z. A modified checkbook irrigation method based on GIS-coupled model for regional irrigation scheduling. *Irrigation Science*, 2011, 29: 115-126
6. Zhang X K, Li Q, Zhu A N, Liang W J, Zhang J B, Y. Steinberger. Effects of tillage and residue management on soil nematode communities in North China. *Ecological Indicators*, 2011, 13: 75-81
7. Hu J L, Lin X G, Wang J H, Dai J, Chen R R, Zhang J B, Wong M H. Microbial functional diversity, metabolic quotient, and invertase activity of a sandy loam soil as affected by long-term application of organic amendment and mineral fertilizer. *Journal of Soils and Sediments*, 2011, 11: 271-280
8. Chen R R, Hu J L, Dittert Klaus, Wang J H, Zhang J B, Lin X G. Soil total nitrogen and natural ¹⁵nitrogen in response to long-term fertilizer management of a maize-wheat cropping system in northern China. *Communications in Soil Science and Plant Analysis*, 2011, 42: 322-331
9. Ma D H, Shao M G, Zhang J B, Wang Q J. Validation of an analytical method for determining soil hydraulic properties of stony soils using experimental data. *Geoderma*, 2010, 159: 262-269
10. Zhang H, Zhang J B, Zhao B Z, Zhang C Z. Removal of bacteriophages MS2 and phiX174 from aqueous solutions using a red soil. *Journal of Hazardous Materials*, 2010, 180: 640-647
11. Zhao B Z, Chen J, Zhang J B, Qin S W. Soil microbial biomass and activity response to repeated drying-rewetting cycles along a soil fertility gradient modified by long-term fertilization management practices. *Geoderma*, 2010, 160: 218-224
12. Wang H Z, Xu J M, Yates S R, Zhang J B, Gan J, Ma J C, Wu J J, Xuan R C. Mineralization of metsulfuron-methyl in Chinese paddy soils. *Chemosphere*, 2010, 78: 335-341
13. Zhao B Z, Zhang J B, Gong J D, Zhang H, Zhang C Z. Glyphosate mobility in soils by phosphate application: Laboratory column experiments. *Geoderma*, 2009, 149(3-4): 290-297
14. Chen T, Liu X M, Li X, Zhao K L, Zhang J B, Xu J M, Shi J C, Dahlgren RA. Heavy metal sources identification and sampling uncertainty analysis in a field-scale vegetable soil of Hangzhou, China. *Environmental Pollution*, 2009, 157(3): 1003-1010
15. Wang H Z, Gan J, Zhang J B, Xu J M, Yates S R, Wu J J, Ye Q F. Kinetic Distribution of C-14-Metsulfuron-methyl Residues in Paddy Soils under Different Moisture Conditions. *Journal of Environmental Quality*, 2009, 38(1): 164-170
16. Liu J T, Chen X, Zhang J B, Flury M. Coupling the Xinjiang model to a kinematic flow model based on digital drainage networks for flood forecasting. *Hydrological Processes*, 2009, 23(9): 1337-1348
17. Hu J L, Lin X G, Wang J H, Dai J, Cui X C, Chen R R, Zhang J B. Arbuscular mycorrhizal fungus enhances crop yield and P-uptake of maize (*Zea mays* L.): A field case study on a sandy loam soil as affected by long-term P-deficiency fertilization. *Soil Biology & Biochemistry*, 2009, 41(12): 2460-2465
18. Hu J L, Lin X G, Wang J H, Chu H Y, Yin R, Zhang J B. Population size and specific potential of P-mineralizing and -solubilizing bacteria under long-term P-deficiency fertilization in a sandy loam soil. *Pedobiologia*, 2009, 53(1): 49-58
19. 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
20. Ge G F, Li Z J, Zhang J, Wang L G, Xu M G, Zhang J B, Wang J K, Xie X L, Liang Y C. Geographical and climatic differences in long-term effect of organic and inorganic amendments on soil enzymatic activities and respiration in field experimental stations of China. *Ecological Complexity*, 2009, 6: 421-431
21. Zhao B Z, Zhang H, Zhang J B, Jin Y. Virus Adsorption and inactivation in soil as influenced by autochthonous microorganisms and water content. *Soil Biology & Biochemistry*, 2008, 40: 649-659
22. Liu J T, Zhang J B, Feng J. Green-Ampt model for layered soils with nonuniform initial water content under unsteady infiltration. *Soil Science Society of America*

- Journal*, 2008, 72: 1041-1047
23. Shen J P, Zhang L M, Zhu Y G, Zhang J B, He J Z. Abundance and composition of ammonia-oxidizing bacteria and ammonia-oxidizing archaea communities of an alkaline sandy loam. *Environmental Microbiology*, 2008, 10(6): 1601-1611
 24. Ge Y, Zhang J B, Zhang L M, Yang M, He J Z. Long-term fertilization regimes affect bacterial community structure and diversity of an agricultural soil in northern China. *Journal of Soils and Sediments*, 2008, 8(1): 43-50
 25. Ge Y, He J Z, Zhu Y G, Zhang J B, Xu Z H, Zhang L M, Zheng Y M. Differences in soil bacterial diversity: driven by contemporary disturbances or historical contingencies? *The ISME Journal (Nature Publishing Group)*, 2008, 2(3): 254-264
 26. Du C W, Zhou J M, Wang H Y, Zhang J B, Zhu A N. Study on the soil mid-infrared photoacoustic spectroscopy. *Spectroscopy and Spectral Analysis*, 2008, 28(6): 1242-1245
 27. Xin X L, Xu F A, Zhang J B, Xu M X. A new resistance sensor for monitoring soil matric potential. *Soil Science Society of America Journal*, 2007, 71: 866-871
 28. Zhao B Z, Zhang J B, Markus Flury, Zhu A N, Jiang Q, Bi J W. Groundwater contamination with NO₃-N in a wheat-corn cropping system in the North China Plain. *Pedosphere*, 2007, 17: 721-731
 29. Li Y, Chen D, White R E, Zhu A, Zhang J B. Estimating soil hydraulic properties of Fengqiu County soils in the North China Plain using pedo-transfer functions. *Geoderma*, 2007, 138: 261-271
 30. Li Y, White R, Chen D L, Zhang J B, Li B G, Zhang Y M, Huang Y F, Edis R. A spatially referenced water and nitrogen management model (WNMM) for (irrigated) intensive cropping systems in the North China Plain. *Ecological Modelling*, 2007, 203: 3950-423
 31. Chu H Y, Lin X G, Fujii T, Morimoto S, Yagi K, Hu J L, Zhang J B. Soil microbial biomass, dehydrogenase activity, bacterial community structure in response to long-term fertilizer management. *Soil Biology & Biochemistry*, 2007, 39: 2971-2976
 32. Chu H Y, Fujii T, Morimoto S, Lin X G, Yagi K, Hu J L, Zhang J B. Community structure of ammonia-oxidizing bacteria under long-term application of mineral fertilizer and organic manure in a sandy loam soil. *Applied and Environmental Microbiology*, 2007, 73 (2): 485-491
 33. Wei Y P, Davidson B, Chen D L, White R, Li B G, Zhang J B. Can contingent valuation method be effective to measure the in-situ value of groundwater in the North China Plain? *Water Resources Management*, 2007, 21: 1735-1749
 34. Wei Y P, White R E, Chen D, Davidson B A and Zhang J B. Farmers' perception of sustainability indicators for crop production on the North China Plain. *Journal of Sustainable Agriculture*, 2007, 30(3): 129-147

获奖项目

TOP

曾获得国家科技进步二等奖、省级科技进步一、二、三等奖、省级发明二等奖、农业部丰收奖各1项，周光召基金“农业科学奖”，江苏省有突出贡献中青年专家，江苏省“中青年科技领军人才”称号。

