

站内搜索

请输入关键词

GO

您现在的位置: 首页 > 人才库

研究队伍

万人计划

千人计划

百人计划

杰出青年

研究员

副研究员

人才招聘



姓名: 中卫军	性别: 男
职务: 鹤山站站长	职称: 研究员
学历: 博士	通讯地址: 广州天河区兴科路723号
电话: 020-37252950	邮政编码: 510650
传真: 020-37252950	电子邮件: shenweij@scbg.ac.cn



中卫军

简历:

中卫军, 博士, 研究员(二级), 博导, 广东鹤山森林生态系统国家野外科学观测研究站暨中科院鹤山丘陵综合开放试验站站长。主要从事土壤微生物生态过程与全球变化、土壤生态过程模型模拟、景观格局与生态系统过程相互作用关系等方面的研究工作。1997年任中科院华南植物所助理研究员, 2002年任副研究员, 2004年晋升研究员。1990至1997年本科、硕士毕业于西北农林科技大学森林生态学专业。2002年6月博士毕业于中国科学院研究生院和华南植物研究所生态学专业, 博士期间赴美国亚利桑那州立大学景观生态学与模拟实验室访学1年(2000年)。2002-2004年美国亚利桑那州立大学(ASU)博士后; 2005-2007年美国杜克大学(Duke)博士后。2010年8月-12月加州大学河滨分校植物学系访问学者; 2014年8-10月, 西班牙胡安卡洛斯国王大学访问学者, 2016年10月美国田纳西大学访问学者。

入选科技部创新人才推进计划中青年科技创新领军人才(2016)、广东省特支计划百千万工程领军人才(2015)、中科院特聘研究员骨干人才(2015)、Scopus青年科学之星(2010)。目前担任Landscape Ecology, Advances in Environmental Protection, Acta Ecologica Sinica 3份英文期刊, 以及《生态学杂志》、《农业资源与环境学报》2份中文杂志的编委, 曾任F1000 Prime的评论专家。发表论文95篇, 其中SCI论文53篇; 总计被引用1500余次(ResearchGate: [https://www.researchgate.net/profile/WeiJun\\_Shen2](https://www.researchgate.net/profile/WeiJun_Shen2))。

研究领域:

承担科研项目情况:

国家杰出青年科学基金, 土壤生态学, 2015年1月至2019年12月, 主持;  
 国家自然科学基金重点项目, 降水季节变化对亚热带常绿阔叶林土壤生态过程的影响机制研究, 2012年1月至2016年12月, 主持;  
 国家自然科学基金重大专项第二课题, 土壤微生物对森林生态系统碳-氮耦合循环过程的调控机制。2013年1月至2017年12月, 主持;  
 国家重点基础研究发展计划(973计划)项目第六课题-天然森林和草地土壤固碳情景分析。2010年1月到2012年12月, 参加。

社会任职:

获奖及荣誉:

2011年陕西省科学技术二等奖, 排名第五。获奖项目名称: 木本植物木质部栓塞恢复与限流耐旱机理研究, 陕西省人民政府。  
 2000年获广东省自然科学二等奖1项, 排名第七。获奖项目名称: "华南热带亚热带森林生态系统物质循环与能量流动研究"。

代表论著:

Dan He#, Weijun Shen\*, Jennifer Ebweine, Qian Zhao, Lijuan Ren, Qinglong L. Wu, 2017. Diversity and co-occurrence network of soil fungi are more responsive than those of bacteria to shifts in precipitation seasonality in a subtropical forest. *Soil Biology and Biochemistry*, 115: 499-510. ▲  
 Hui Wei#, Bertrand Guenet, Sara Vicca, Naoise Nunan, Han Asard, Hamada AbdElgawad, Weijun Shen\* and Ivan A. Janssens. 2014. High clay content accelerates the decomposition of fresh organic matter in artificial soils. *Soil Biology and Biochemistry*, 77: 100-108. ▼  
 Hui Wei#, Bertrand Guenet, Sara Vicca, Naoise Nunan, Hamada AbdElgawad, Valérie Pouteau, Weijun Shen\* and Ivan A. Janssens. 2014. Thermal acclimation of organic matter decomposition in an artificial forest soil is related to shifts in microbial community structure. *Soil Biology and Biochemistry*, 71: 1-12. ▲  
 Xiaoge Han#, Weijun Shen\*, Jintong Zhang, Muller Christoph, 2018. Microbial adaptation to long-term N supply prevents large responses in N dynamics and N losses of a subtropical forest. *Science* ▲

- ce of the Total Environment, doi: 10.1016/j.scitotenv.2018.01.132.
- Jinhong He#, Leho Tedersoo, Ang Hu, Conghai Han, Dan He, Hui Wei, Min Jiao, Sten Anslan, Yanxia Nie, Yongxia Jia, Gengxing Zhang, Guirui Yu, Shirong Liu, Weijun Shen\*, 2017. Greater diversity of soil fungal communities and distinguishable seasonal variation in the temperate deciduous forests compared with subtropical evergreen forests. *FEMS Microbiology Ecology*, 2017, 93, doi: 10.1093/femsec/fix069.
- Weijun Shen\*, G. Darrel Jenerette, Dafeng Hui, Russell L. Scott, 2016. Precipitation legacy effects on dryland ecosystem carbon fluxes: direction, magnitude and biogeochemical carryovers. *Biogeosciences*, 13: 425-439, doi: 10.5194/bg-13-425-2016.
- Weijun Shen\*, Yongbiao Lin, G. Darrel Jenerette, Jianguo Wu, 2011. Blowing litter across a landscape: effects on ecosystem nutrient flux and implications for landscape management. *Landscape Ecology*, 26: 629-644.
- Weijun Shen\*, James F. Reynolds, Dafeng Hui, 2009. Responses of dryland soil respiration and soil carbon pool size to abrupt versus gradual and individual versus combined changes in soil temperature, precipitation, and atmospheric [CO<sub>2</sub>]: a simulation analysis. *Global Change Biology*, 15: 2274-2294.
- Weijun Shen\*, Jianguo Wu, Nancy Grimm, Diana Hope, 2008. Effects of urbanization-induced environmental changes on ecosystem functioning in the Phoenix metropolitan region, USA. *Ecosystems* 11:138-155.
- Weijun Shen, G. Darrel Jenerette, Jianguo Wu\*, and Robert H Gardner, 2004. Evaluating empirical scaling relations of pattern metrics with simulated landscapes. *Ecography*, 27: 459-469.
- Yanxia Nie#, Mengchen Wang, Wei Zhang, Zhuang Ni, Yasuyuki Hashidoko, Weijun Shen\*, 2018. Ammonium nitrogen content is a dominant predictor of bacterial community composition in an acidic forest soil with exogenous nitrogen enrichment. *Science of the Total Environment*, 624: 407-415.
- Jie Chen#, Guoliang Xiao#, Yakov Kuzyakov, Darrel Jenerette, Ying Ma, Wei Liu, Zhengfeng Wang, Weijun Shen\*, 2017. Soil nitrogen transformation responses to seasonal precipitation changes are regulated by changes in functional microbial abundance in a subtropical forest. *Biogeosciences*, 14, 2513-2525, doi:10.5194/bg-14-2513-2017.
- Qian Zhao#, Shuguang Jian, Naoise Nunan, Fernando T. Maestre, Leho Tedersoo, Jinhong He, Hui Wei, Xiangping Tan, and Weijun Shen\*, 2017. Altered precipitation seasonality impacts the dominant fungal but rare bacterial taxa in subtropical forest soils. *Biology and Fertility of Soils*, 53(2): 231-245.
- Weiping Zhou#, Weijun Shen\*, Yue Li, Dafeng Hui, 2017. Interactive effects of temperature and moisture on soil microbial community composition. *European Journal of Soil Science*, 25Oct2017, doi: 10.1111/ejss.12488.
- Yanting Hu#, Ping Zhao, Weijun Shen, Liwei Zhu, Guangyan Ni, Xiuhua Zhao, Zhenzhen Zhang, Xingquan Rao, Lei Ouyang, Xiaomin Zeng, Dan Sun, Yongbiao Lin, 2017. Responses of tree transpiration and growth to seasonal rainfall redistribution in a subtropical evergreen broad-leaved forest. *Ecosystems*, doi: 10.1007/s10021-017-0185-1.
- Xiangping Tan#, Ziquan Wang, Guannan Lu, Wenxiang He, Gehong Wei, Feng Huang, Xinlan Xu, Weijun Shen, 2017. Kinetics of soil dehydrogenase in response to exogenous Cd toxicity. *Journal of Hazardous Materials*, doi: 10.1016/j.jhazmat.2017.01.055.
- Xiangping Tan#, Megan B. Machmuller, Ziquan Wang, Xudong Li, Wenxiang He\*, M. Francesca Cotrufo. Weijun Shen\*. Temperature enhances the affinity of soil alkaline phosphatase to Cd. *Chemosphere*, in press.
- Hui Wei#, Xiaomei Chen, Jinhong He, Jiaen Zhang, Weijun Shen\*, 2017. Exogenous nitrogen addition reduces temperature sensitivity of soil microbial respiration without altering microbial community composition. *Frontiers in Microbiology*, 8: 2382, 1-13, doi: 10.3389/fmicb.2017.02382.
- Jie Chen#, Yanxia Nie, Wei Liu, Zhengfeng Wang, Weijun Shen\*, 2017. Ammonia-oxidizing archaea are more resistant than denitrifiers to seasonal precipitation changes in an acidic subtropical forest soil. *Frontiers in Microbiology*, 24July2017, doi: 10.3389/fmicb.2017.01384.
- Yuanwen Kuang, Yimin Xu, Lingling Zhang, Enqing Hou, Weijun Shen\*, 2017. Dominant trees in a subtropical forest respond to drought mainly via adjusting tissue soluble sugar or proline content. *Frontiers in Plant Science*, 8 (May 15), doi: 10.3389/fpls.2017.00802.
- Jianguo Gao, Ping Zhao, Weijun Shen, Xingquan Rao, Yanting Hu, 2017. Physiological homeostasis and morphological plasticity of two tree species subjected to precipitation seasonal distribution changes. *Perspectives in Plant Ecology, Evolution and Systematics*, 25: 1-19.
- Jennifer Eberwein#, Weijun Shen and Darrel Jenerette, 2017. Michaelis-Menten kinetics of soil respiration feedbacks to nitrogen deposition and climate change in subtropical forests. *Scientific Reports*, 7: 1752, doi: 10.1038/s41598-017-01941-8.
- Weiping Zhou#, Jinhong He, Dafeng Hui, and Weijun Shen\*, 2017. Quantifying the short-term dynamics of soil organic carbon decomposition using a power function model. *Ecological Processes*, 6, 10, DOI: 10.1186/s13717-017-0077-5.
- Yanting Hu#, Jianguo Gao, Ping Zhao\*, Weijun Shen, Peiqiang Zhao, Liwei Zhu, Guangyan Ni, Junfeng Niu, Lei Ouyang, 2017. Water transport of native and exotic tree species in relation to xylem anatomical characteristics in low subtropical China. *Journal of Plant Ecology*, (Feb 2017), doi: 10.1093/jpe/rtx010.
- Qi Deng#, Sadiye Aras#, Chih-Li Yu, E. Kudjo Dzantor, Philip A. Fay, Yiqi Luo, Weijun Shen, and Dafeng Hui\*, 2017. Effects of precipitation changes on aboveground net primary production and soil respiration in a switchgrass field. *Agriculture, Ecosystems and Environment*, 248: 29-37.
- Chih-Li Yu, Dafeng Hui\*, Qi Deng, E. Kudjo Dzantor, Philip A Fay, Weijun Shen, and Yiqi Luo, 2017. Responses of switchgrass soil respiration and its components to precipitation gradient in a mesocosm study. *Plant and Soil*, doi: 10.1007/s11104-017-3370-2.
- Hui Liu, Bo Hu, Yuesi Wang, Guangren Liu, Liqin Tang, Dongshen Ji, Yongfei Bai, Weikai Bao, Xin Chen, Yunming Chen, Weixin Ding, Xiaozeng Han, Fei He, Hui Huang, Zhenying Huang, Xinrong Li, Yan Li, Wenzhao Liu, Luxiang Lin, Zhu Ouyang, Zhu Ouyang, Boqiang Qin, Weijun Shen, Yanjun Shen, Hongxin Su, Changchun Song, Bo Sun, Song Sun, Anzhi Wang, Genxu Wang, Huimin Wang, Silong Wang, Wenxue Wei, Ping Xie, Zongqiang Xie, Xiaoyuan Yan, Fanjiang Zeng, Fawei Zhang, Yangjian Zhang, Chengyi Zhao, Wenzhi Zhao, Xueyong Zhao, Guoyi Zhou, Bo Zhu. 2017. Two ultraviolet radiation datasets that cover China. *Advances in Atmospheric Sciences*, 34(7): 805-815.
- Jianguo Gao, Ping Zhao, Weijun Shen, Junfeng Niu, Liwei Zhu, Guangyan Ni, 2015. Biophysical limits to responses of water flux to vapor pressure deficit in seven tree species with contrasting land use regimes. *Agricultural and Forest Meteorology*, 200: 258-269.
- Guangcun Hao#, Qianlai Zhuang, Qing Zhu, Yujie He, Zhenong Jin, Weijun Shen, 2015. Quantifying microbial ecophysiological effects on the carbon fluxes of forest ecosystems over the conterminous United States. *Climatic Change*, doi: 10.1007/s10584-015-1490-3.
- Hui Wei#, Guoliang Xiao, Bertrand Guenet, Ivan A. Janssens and Weijun Shen\*, 2015a. Soil microbial community composition does not predominantly determine the variance of heterotrophic soil respiration across four subtropical forests. *Scientific Reports*, 5, Doi: 10.1038/srep07854.
- Hui Wei#, Xiaomei Chen, Guoliang Xiao, Bertrand Guenet, Sara Vicca, and Weijun Shen\*, 2015b. Are variations in heterotrophic soil respiration related to changes in substrate availability and microbial biomass carbon in the subtropical forests? *Scientific Reports*, 5: 18370, doi: 10.1038/srep18370.
- Jie Chen#, Hui Zhang, Wei Liu, Juyun Lian, Wanhui Ye, Weijun Shen\*, 2015. Spatial distribution patterns of ammonia-oxidizing archaea abundance in subtropical forests at early and late successional stages. *Scientific Reports*, 5, 16587, doi:10.1038/srep16587.
- Wei Zhang#, Weijun Shen#(Co-first author), Shidan Zhu, Shiqiang Wan, Junhua Yan, Keya Wang, Huitang Dai, Peixue Li, Keyuan Dai, Weixin Zhang, Zhanfeng Liu, Faming Wang, Yuanwen Kuang, Zhian Li, Yongbiao Lin, Xingquan Rao, Jiong Li, Bi Zou, Xian Cai, Jiangming Mo, Ping Zhao, Qing Ye, Jianguo Huang, Shenglei Fu, 2015. CAN canopy addition of nitrogen better illustrate the effects of atmospheric nitrogen deposition on forest ecosystems. *Scientific Reports*, 5: doi: 10.1038/srep11245.
- Weiping Zhou#, Dafeng Hui, and Weijun Shen\*, 2014. Effects of soil moisture on the temperature sensitivity of soil heterotrophic respiration: A laboratory incubation study. *PLoS ONE*, 9(3): e92531. Doi: 10.1371/journal.pone.0092531.

- Wei Zhang#, Xiaomin Li, Tongxu Liu, Fangbai Li, Weijun Shen, 2014. Competitive reduction of nitrate and iron oxides by *Shewanella putrefaciens* 200 under anoxic conditions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 445: 97-104.
- Tongxu Liu, Wei Zhang#, Xiaomin Li, Fangbai Li, Weijun Shen, 2014. Kinetics of competitive reduction of nitrate and iron oxides by *Acromonas hydrophila* HS01. *Soil Science Society of America Journal*, 78: 1903-1912.
- Dafeng Hui, Jun Wang, Weijun Shen, Xuan Le, E. Nwaneri, P. Ganter, Hai Ren, 2014. Near isometric biomass partitioning in forest ecosystems of China. *PLoS ONE*, 9 ( 1 ) : e86550.
- Linjun Li, Hongfang Lu, David R. Tilley, Hai Ren, Weijun Shen, 2013. The maximum empower principle: An invisible hand controlling the self-organizing development of forest plantations in south China. *Ecological Indicators*, 29: 278-292.
- Weijun Shen\*, Huili Ren, Darrel Jenerette, Dafeng Hui, Hai Ren. 2013. Atmospheric deposition and canopy exchange of anions and cations in two plantation forests under acid rain influence. *Atmospheric Environment*, 2013, 64: 242-250.
- Darrel Jenerette, Weijun Shen, 2012. Experimental landscape ecology. *Landscape Ecology*, 27: 1237-1248.
- Weijun Shen\*, G. Darrel Jenerret, Dafeng Hui, Rich Phillips, Hai Ren, 2008. Effects of changing precipitation regimes on dryland soil respiration and C pool dynamics at rainfall event, seasonal and interannual scales. *Journal of Geophysical Research-Biogeosciences*, 113, G03024, doi: 10.1029/2008JG000685.
- Weijun Shen, Jianguo Wu, Paul R. Kemp, James F. Reynolds, Nancy B. Grimm. 2005. Simulating the dynamics of primary productivity of a Sonoran ecosystem: Model parameterization and validation. *Ecological Modelling*, 189: 1-24.
- Jianguo Wu, Weijun Shen, Weizhong Sun and Paul T. Tueller, 2002. Empirical patterns of the effects of changing scale on landscape metrics. *Landscape Ecology*, 17: 761-782.
- Dafeng Hui, Jun Wang, Xuan Le, Weijun Shen, Hai Ren. 2012. Influences of biotic and abiotic factors on the relationship between tree productivity and biomass in China. *Forest Ecology and Management*, 264: 72-80.
- Jianguo Wu, Alex Buyantuyev, G. Darrel Jenerette, Jenifer Litteral, Weijun Shen, 2011. Quantifying Spatiotemporal Patterns and Ecological Effects of Urbanization: A Multiscale Landscape Approach. In: Matthias Richter and Ulrike Weiland (eds). *Applied Urban Ecology: A Global Framework*, Blackwell. Pp 35-53.
- Shuguang Jian, Weijun Shen, Zhongyi Yang, 2009. Enhanced adaptability of *Sesbania rostrata* to Pb/Zn tailings via stem nodulation. *Journal of Environmental Sciences - China*, 21: 1135-1141.
- Hai Ren, Hongfang Lu, Weijun Shen, Charlie Huang, Qinfeng Guo, Zhian Li, Shuguang Jian, 2009. *Sonneratia apetala* Buch. Han in the mangrove ecosystems of China: An invasive species or restoration species? *Ecological Engineering*, 35: 1243-1248.
- Jinping Zhang, Hai Ren, Weijun Shen, Shuguang Jian, Fanghong Xu, 2008. Community composition, species diversity and population biomass of the Gaoqiao mangrove forest in Southern China. In: Jose R. Herrera (ed.) *International Wetlands: Ecology, Conservation, and Restoration*. Nova Science Publishers. Pp. 177-189.
- Hai Ren, Shuguang Jian, Hongfang Lu, Qianmei Zhang, Weijun Shen, Weidong Han, Zuoyun Yin, Qinfeng Guo. 2008. Restoration of mangrove plantations and colonization by native species in Leizhou bay, South China. *Ecological Research*, 23: 401-407.
- Weijun Shen\*, Hai Ren, Yongbiao Lin, Minghui Li. 2007. Element fluxes and budgets of a plantation embedded in an agroforestry landscape: Implication for landscape management and sustainability. In: Sun-Kee Hong Nobukazu Nakagoshi, Bojie Fu, Yukihiro Morimoto, eds, *Landscape Ecological Applications in Man-Influenced Areas: Linking Man and Nature Systems*. Springer-verlag, GX Dordrecht, The Netherlands. Pp. 273-290.
- Hai Ren, Zhian Li, Weijun Shen, Zuoyue Yu, Shaolin Peng, Conghui Liao, Mingmao Ding, Jianguo Wu, 2007. Changes in biodiversity and ecosystem functioning during the restoration of a tropical forest in south China. *Science in China Series C: Life Sciences*, 50 (1): 1-8.
- Hai Ren, Weijun Shen, Hongfang Lu, Xiangyin Wen, and Shuguang Jian, 2007. Degraded ecosystems in China: Status, causes, and restoration efforts. *Landscape and Ecological Engineering*, 3: 1-13.
- Qiong Gao, Shaolin Peng, Ping Zhao, Xiaoping Zeng, Xian Cai, Mei Yu, Weijun Shen, Yinghui Liu, 2003. Explanation of vegetation succession in subtropical southern China based on ecophysiological characteristics of plant species. *Tree Physiology*, 23: 641-648.
- Qiong Gao, Ping Zhao, Xiaoping Zeng, Xian Cai, and Weijun Shen. 2002. A model of stomatal conductance to quantify the relationship between leaf transpiration, microclimate and soil water stress. *Plant, Cell and Environment*, 25:1373-1381.



©2008-2009 中国科学院华南植物园 版权所有 备案序号: 粤ICP备05004664号  
地址: 广州市天河区兴科路723号 邮编: 510650 邮件: bgs@scib.ac.cn  
电话: 020-37252711 旅游咨询热线: 020-85232037