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简历:

张炜, 男, 1975年12月生, 河南桐柏人; 博士, 现任中国科学院华南植物园(生态系统管理研究组)副研究员。1997年7月毕业于河南大学, 获理学学士; 2004年7月毕业于广东外语外贸大学, 获经济学学士(第二学位); 2008年3月毕业于中国科学院大学/中国科学院华南植物园, 获博士学位, 生态学专业。2008年3月至今在中国科学院华南植物园工作, 期间于2012年9月至2013年9月赴美国Oklahoma University从事博士后研究1年, 合作导师: 骆亦其教授。

先后主持科研项目6项, 包括2项国家自然科学基金面上项目(31000236、31370011)、1项广东省面上项目(9451065005004064)和1项广东省科学院横向课题(Y09999M001)等。第二完成人参与项目6项, 包括2项973子课题(2010CB833502、2011CB403204)、3项国家自然科学基金面上(41273143、41473112、41203089)和1项广东省基金重点项目(2014A030311023)等。任现职以来共发表论文32篇, 其中SCI论文27篇(第一作者Top10% SCI论文4篇、第一作者Top30% SCI论文2篇, 单篇最高被引38次)、核心刊物5篇。

研究领域:

全球变化生态学、系统生态学、生物地球化学

主要从事全球变化(氮沉降、城市化等)对南亚热带森林生态系统结构和功能、及碳氮磷循环过程、土壤养分循环方面研究。发现了: 1) 氮沉降显著降低南亚热带森林土壤呼吸和氧化CH₄的能力, 增加其N₂O排放, 影响程度取决于土壤氮状况及森林演替阶段; 2) 氮沉降显著抑制季风林土壤呼吸(CO₂排放)能力, 结合凋落物分解实验, 阐明了氮沉降是造成南亚热带成熟林土壤吸存有机碳(Zhou GY et al., 2006, Sciences)的可能原因之一; 3) 氮沉降可增加南亚热带豆科(大叶相思)人工林土壤N₂O排放量, 适量磷肥施用可缓解由大气氮沉降引起的N₂O温室效应; 4) 城市化可削弱南亚热带森林土壤CH₄汇功能; 提出5) 传统的林下模拟氮沉降方法因绕过了林冠对N素的吸收、吸附和转化等截留过程, 可能高估N输入对森林土壤和灌层生态过程的影响(Zhang et al., 2015, Scientific Reports)。设计、建成了国内外首个尝试从林冠模拟施氮和增雨设施——“林冠模拟氮沉降和降雨”野外控制实验平台(该平台获国家专利1项, 专利号ZL201320100383.0)。

承担科研项目情况:

社会任职:

担任Atmospheric Environment, Ecological Research, Ecological Modelling, Journal of Plant Ecology, Scientific Reports等SCI刊物和核心刊物《生态学报》、《应用生态学报》审稿人。

获奖及荣誉:

2008年3月, 获中科院优秀博士毕业生、中科院百篇优秀博士论文提名(第66名)。

代表论著:

第一作者发表1区SCI论文6篇(Top10 SCI 4篇, Top30% SCI 2篇, 单篇最高SCI被引38次)

[1] Zhang Wei, Shen Weijun, Zhu Shidan, Wan Shiqiang, Luo Yiqi, Yan Junhua, Wang Keya, Liu Lei, Dai Huitang, Li Peixue, Dai Keyuan, Zhang Weixin, Liu Zhanfeng, Wang Faming, Kuang Yuanwen, Li Zhian, Lin Yongbiao, Rao Xingquan, Li Jiong, Zou Bi, Cai Xian, Mo Jiangming, Zhao Ping, Ye Qing, Huang Jianguo, Fu Shenglei*. 2015. CAN Canopy Addition of Nitrogen Better Illustrate the Effect of Atmospheric Nitrogen Deposition on Forest Ecosystem? Scientific Reports, 5, 11245. doi:10.1038/srep11245. (Top10%)

[2] Zhang Wei, Zhu Xiaomin, Luo Yiqi, Rafique R., Chen Hao, Huang Juan, Mo Jiangming*. 2014. Responses of nitrous oxide emissions to nitrogen and phosphorus additions in two tropical plantations with N-fixing vs. non-N-fixing tree species. Biogeosciences, 11, 4941-4951. (Top10%)

[3] Zhang Wei*, Wang Keya, Luo Yiqi, Fang Yunting, Yan Junhua, Zhang Tao, Zhu Xiaomin, Chen Hao, Wang Wantong, Mo Jiangming. 2014. Methane uptake in forest soils along an urban-to-rural gradient in Pearl River Delta, South China. Scientific Reports, 4, 5120. doi:10.1038/srep05120. (Top10%)



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- [4] Zhang Wei, Zhu Xiaomin, Liu Lei, Fu Shenglei, Chen Hao, Huang Juan, Lu Xiankai, Liu Zhanfeng, Mo Jiangming*. 2012. Large difference of inhibitive effect of nitrogen deposition on soil methane oxidation between plantations with N-fixing tree species and non-N-fixing tree species. *Journal of Geophysical Research*, 117, G00N16. doi:10.1029/2012JG002094. (Top30%)
- [5] Zhang Wei, Mo Jiangming*, Yu Guirui, Fang Yunting, Li Dejun, Lu Xiankai, Wang Hui. 2008. Emissions of nitrous oxide from three tropical forests in southern China in response to simulated nitrogen deposition. *Plant and Soil*, 306, 221-236. (Top10%, 被引38次)
- [6] Zhang Wei, Mo Jiangming*, Zhou Guoyi, P. Gundersen, Fang Yunting, Lu Xiankai, Zhang Tao, Dong Shaofeng. 2008. Methane uptake responses to nitrogen deposition in three tropical forests in southern China. *Journal of Geophysical Research*, 113, D11116. doi:10.1029/2007JD009195. (Top30%)
- 第二作者发表SCI论文6篇(其中Top10% SCI 5篇, 单篇SCI被引158次):
- [7] Mo Jiangming, Zhang Wei, Zhu Weixing, Per Gundersen, Fang Yunting, Li Dejun, Wang Hui. 2008. Nitrogen addition reduces soil respiration in a mature forest in southern China. *Global Change Biology*, 14, 403-412. (Top10%, 被引158次)
- [8] Yan Junhua, Zhang Wei, Wang Keya, Qin Fen, Wang Wantong, Dai Huitang, Li Peixue. 2014. Responses of CO₂, N₂O and CH₄ fluxes between atmosphere and forest soil to changes in multiple environmental conditions. *Global Change Biology*, 20, 300-312. (Top10%)
- [9] Huang Juan, Zhang Wei, Mo Jiangming, Wang Shizhong, Liu Juxiu, Chen Hao. 2015. Urbanization in China drives soil acidification of *Pinus massoniana* forests. *Scientific Reports*, 5, 13512; doi: 10.1038/srep13512. (Top10%)
- [10] Huang Juan, Zhang Wei, Zhu Xiaomin, Frank S. Gilliam, Chen Hao, Lu Xiankai, Mo Jiangming. 2015. Urbanization in China changes the composition and main sources of wet inorganic nitrogen deposition. *Environmental Science and Pollution Research*, 22(9), 6526-6534. (Top30%)
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- [12] Mo Jiangming, Zhang Wei, Zhu Weixing, Fang Yunting, Li Dejun, Zhao Ping. 2007. Response of soil respiration to simulated N deposition in a disturbed and a rehabilitated tropical forest in southern China. *Plant and Soil*, 296, 125-135. (Top10%)
- 其他排名SCI论文:
- [13] Chen Hao, Gurmessa Geshere A., Zhang Wei, Zhu Xiaomin, Zheng Mianhai, Mao Qinggong, Zhang Tao, Mo Jiangming. 2016. Nitrogen saturation in humid tropical forests after 6 years of nitrogen and phosphorus addition: hypothesis testing. *Functional Ecology*, 30, 305-313.
- [14] Zheng Mianhai, Zhang Tao, Liu Lei, Zhu Weixing, Zhang Wei, Mo Jiangming. 2016. Effects of nitrogen and phosphorus additions on nitrous oxide emission in a nitrogen-rich and two nitrogen-limited tropical forests. *Biogeosciences*, 13, 3503-3517. doi:10.5194/bg-2015-552.
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- [16] Zhu Xiaomin, Chen Hao, Zhang Wei, Huang Juan, Fu Shenglei, Liu Zhanfeng, Mo Jiangming*. 2015. Effects of nitrogen addition on litter decomposition and nutrient release in two tropical plantations with N₂-fixing vs. non-N₂-fixing tree species. *Plant and Soil*, 399, 61-71.
- [17] Fang Yunting, Per Gundersen, Zhang Wei, Zhou Guoyi, R. Christiansen, Mo Jiangming, Dong Shaofeng, Zhang Tao. 2009. Soil-atmosphere exchange of N₂O, CO₂ and CH₄ along a slope of an evergreen broad-leaved forest in southern China. *Plant and Soil*, 319, 37-48.
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- [19] Keisuke Koba, Fang Yunting, Mo Jiangming, Zhang Wei, Lu Xiankai, Liu Lei, Zhang Tao, Yu Takebayashi, Sakae Toyoda, Naohiro Yoshida, Keisuke Suzuki, Muneoki Yoh, Keishi Senoo. 2012. The ¹⁵N natural abundance of the N lost from an N-saturated subtropical forest in southern China. *Journal of Geophysical Research*, 117, G02015. doi:10.1029/2010JG001615.
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- [23] Lu Xiankai, Mao Qinggong, Mo Jiangming*, Frank S. Gilliam, Zhou Guoyi, Luo Yiqi, Zhang Wei, Juan Huang. 2015. Divergent Responses of Soil Buffering Capacity to Long-Term N Deposition in Three Typical Tropical Forests with Different Land-Use History. *Environmental Science & Technology*, 49(7), 4072-4080. doi:10.1021/es5047233.
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plants in a N-saturated, subtropical forest of southern China. *Rapid Communications in Mass Spectrometry*, 24, 2499-2506. doi:10.1002/rcm.4648.

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[28] Zhang Wei, Mo Jiangming, Fang Yunting, Lu Xiankai, Wang Hui. 2008. Effects of nitrogen deposition on the greenhouse gas fluxes from forest soils. *Acta Ecologica Sinica*, 28(5), 2309-2319. (核心)

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[30] Huang Juan, Mo Jiangming, Zhang Wei, Lu Xiankai. 2014. Research on acidification in forest soil driven by atmospheric nitrogen deposition. *Acta Ecologica Sinica*, 34, 302-310.

[31] 陈浩, 莫江明, 张炜, 鲁显楷, 黄娟. 2012. 氮沉降对森林生态系统碳吸存的影响. *生态学报*, 32(21), 6864-6879.

[32] 黄娟, 莫江明, 孔国旌, 鲁显楷, 张炜. 2011. 植物源挥发性有机物对氮沉降响应的研究展望. *生态学报*, 31(21), 6616-6623.

获国家专利1项(第2完成人):

傅声雷、张炜、戴慧堂、万师强、李培学、王明蕊、戴克元、朱师丹、闫俊华、王克亚、中卫军、林永标、旷远文、刘占锋、王法明、叶清、赵平. 一种林冠模拟氮沉降和降雨野外控制实验系统, 2013年8月, 中国, 专利号: ZL201320100383.0.



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