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研究员

副研究员

人才招聘

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莫江明

简历:

基本情况:

莫江明 男, 博士, 1964年生, 广东省肇庆人。现任鼎湖山国家级自然保护区管理局副局长, 中国科学院华南植物园(华南植物研究所)研究员、博士生导师、生态系统管理基础创新研究组首席研究员。

工作经历:

1984年华南农学院毕业分配到中国科学院华南植物研究所工作,
1991-1994年赴美国伊利诺斯大学(University of Illinois, USA)留学并获该大学理学硕士(导师Sandra Brown博士),
2004年获中国科学院研究生院理学博士(导师彭少麟博士)。
1995年晋升副研究员,
2002年晋升研究员。
1996年起历任鼎湖山国家级自然保护区管理局副局长、常务副局长和局长。

研究情况:

一直从事生态系统管理、恢复生态学、森林生态系统对全球变化和人类活动的响应及其机理等的研究。先后主持和参加完成了国家自然科学基金、中国科学院、广东省及国际合作基金项目等20多个。目前主持国家科技部973项目专题、国家自然科学基金和广东省自然科学基金等项目5个。已培养博士5位和硕士8位。在国内外已发表学术论文120余篇,其中SCI收录论文40多篇(包括Science、Global Change Biology、Journal of Geophysical Research-Atmospheres、Forest Ecology and Management和Plant and Soil等国际著名刊物论文)。在国内率先开展森林生态系统对氮沉降的响应及其机理研究;发现氮沉降可能驱使成熟森林土壤有机碳的积累(Global Change Biology,2008,14:403-412)以及氮沉降可能威胁热带亚热带区域富氮森林的植物多样性(Global Change Biology,2010,16:2688-2700)。

研究领域:

全球变化生态学、恢复生态学、生态系统生态学。
目前主要关注于氮沉降全球化对森林生态系统结构和功能影响方面的研究。

承担科研项目情况:

社会任职:

(1) 2008-2010: 担任国际刊物Global Change Biology编委(2010年影响因子为6.346); (2) 2011-至今: 担任国际刊物Journal of Environmental Protection 编委。

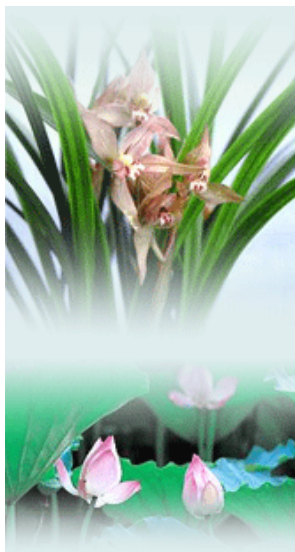
获奖及荣誉:

(1) 2008年国家自然科学二等奖,“华南热带亚热带森林生态系统恢复/演替过程碳、氮、水演变机理”(排名第四);
(2) 2006年广东省自然科学一等奖,“热带亚热带森林生态系统碳、氮、水耦合研究”,(排名第四);

代表论著:

(一)、第一或通讯作者Top10论文

1 Jiangming Mo, Wei Zhang, Weixing Zhu, Per Gundersen, Yunting Fang, Dejun Li, Hui Wang. Nitrogen addition reduces soil respiration in a mature tropical forest in southern China. Global Change Biology, 2008, 14: 403-412 (IF₂₀₁₀=6.346, Top 10)
2 Xiankai Lu, Jiangming Mo*, Frank S. Gilliam, Guoyi Zhou, Yunting Fang. Effects of experimental nitrogen additions on plant diversity in an old-growth tropical forest. Global Change Biology, 2010,



16, 2688–2700. (IF₂₀₁₀=6.346, Top 10)

3 Tao Zhang, Weixing Zhu, **Jiangming Mo***, Lei Liu, Shaofeng Dong. Increased phosphorus availability mitigates the inhibition of nitrogen deposition on CH₄ uptake in an old-growth tropical forest, southern China. *Biogeosciences*, 2011, inpress (IF₂₀₁₀=3.587, Top 10)

4 Lei Liu, Per Gundersen, Tao Zhang, **Jiangming Mo***. Effects of phosphorus addition on soil microbial biomass and community composition in three forest types in tropical China. *Soil Biology & Biochemistry*, 2011, inpress (IF₂₀₁₀=3.242, Top 10)

5 Xiankai Lu, **Jiangming Mo***, Frank S. Gilliam, Guirui Yu, Wei Zhang, Yunting Fang, Juan Huang. Effects of experimental nitrogen additions on plant diversity in tropical forests of contrasting disturbance regimes in Southern China. *Environmental Pollution*, 2011, 159 (10): 2228-2235. (IF₂₀₁₀=3.395, Top 10)

6 Xuejun Liu, Lei Duan, **Jiangming Mo (并列第一作者)**, Enzai Du, Jianlin Shen, Xiankai Lu, Ying Zhang, Xiaobing Zhou, Chunc He, Fusuo Zhang. Nitrogen deposition and its ecological impact in China: An overview. *Environmental Pollution*, 2011, 159 (10): 2251-2264. (IF₂₀₁₀=3.395, Top 10)

7 Wei Zhang, **Jiangming Mo***, Guirui Yu, Yunting Fang, Dejun Li, Xiankai Lu, Hui Wang. Emissions of nitrous oxide from three tropical forests in southern China in response to simulated nitrogen deposition. *Plant and Soil*, 2008, 306: 221-236. (IF₂₀₁₀=2.773, Top 10)

8 Wei Zhang, **Jiangming Mo***, Guoyi Zhou, Per Gundersen, Yunting Fang, Xiankai Lu, Tao Zhang, Shaofeng Dong. Methane uptake responses to nitrogen deposition in three tropical forests in southern China. *Journal of Geophysical Research-Atmospheres*, 2008, 113, D11116, doi:10.1029/2007JD009195. (IF₂₀₁₀=3.303, Top 10)

9 **Jiangming Mo**, Wei Zhang, Weixing Zhu, Yunting Fang, Dejun Li, Ping Zhao. Response of soil respiration to simulated N deposition in a disturbed and a rehabilitated tropical forest in southern China. *Plant and Soil*, 2007, 296 (1): 125-135. (IF₂₀₁₀=2.773, Top 10)

10 Hua Fang, **Jiangming Mo***, Shaolin Peng, Zhian Li, Hui Wang. Cumulative effects of nitrogen additions on litter decomposition in three tropical forests in southern China. *Plant and Soil*, 2007, 297(1): 233-242. (IF₂₀₁₀=2.773, Top 10)

11 **Jiangming Mo**, Sandra Brown, Jinghua Xue, Yunting Fang, Zhian Li. Response of litter decomposition to simulated N deposition in disturbed, rehabilitated and mature forests of subtropical China. *Plant and Soil*, 2006, 282:135 – 151. (IF₂₀₁₀=2.773, Top 10)

(二)、第一或通讯作者Top30论文

12 **Jiangming Mo**, Sandra Brown, Shaolin Peng, and Guohui Kong. Nitrogen availability in Disturbed, Rehabilitated and Mature Forests of Tropical China. *Forest Ecology and Management*, 2003, 175(3):573-583. (IF₂₀₁₀=1.992, Top 30)

13 **Jiangming Mo**, Dejun Li, Per Gundersen. Seedling growth response of two tropical tree species to nitrogen deposition in southern China. *European Journal of Forest Research*. 2008, 127 : 275-283. (IF₂₀₁₀=1.942, Top 30)

14 Xiankai Lu, **Jiangming Mo***, Frank S. Gilliam, Hua Fang, Feifei Zhu, Yunting Fang, Wei Zhang and Juan Huang. Land-use history mitigates response of soil phosphorus availability to nitrogen addition in two reforested tropical forests in southern China. *Biotropica*, 2011, in press. (IF₂₀₁₀=2.169, Top 30)

(三)、第一或通讯作者的其它SCI论文

15 Yunting Fang, Muncoki Yoh, **Jiangming Mo***, Per Gundersen, Guoyi Zhou. Response of nitrogen leaching to simulated nitrogen deposition in a disturbed and a mature forest in southern China. *Pedosphere*, 2009, 19 (1): 111-120. (IF₂₀₁₀=0.978)

16 Xiankai Lu, **Jiangming Mo***, Gundersen Per, Weixing Zhu, Guoyi Zhou, Dejun Li, Xu Zhang. Effects of simulated N deposition on soil exchangeable cations in three forest land-use types in subtropical China. *Pedosphere*, 2009, 19 (2): 189-198. (IF₂₀₁₀=0.978)

17 Guoliang Xu, **Jiangming Mo***, Shenglei Fu, Per Gundersen, Guoyi Zhou, Jinghua Xue. Response of soil fauna to simulated nitrogen deposition-a nursery experiment in subtropical China. *Journal of Environmental Sciences*, 2007, 19: 603-609. (IF₂₀₁₀=1.513)

18 XU Guo-Liang , **MO Jiang-Ming***and ZHOU Guo-Yi. Preliminary response of soil fauna to simulated N deposition in three typical subtropical forests. *Pedosphere*, 2006, 16(5): 596-601. (IF₂₀₁₀=0.978)

19 Yunting Fang, Weixing Zhu, **Jiangming Mo***, Guoyi Zhou, Per Gundersen. Dynamics of soil inorganic nitrogen and their responses to nitrogen additions in three subtropical forests, South China. *Journal of Environmental Sciences*, 2006, 18(4): 752-759. (IF₂₀₁₀=1.513)

20 **Jiangming Mo**, Hua Fang, Weixing Zhu, Guoyi Zhou, Xiankai Lu, Yunting Fang. Decomposition responses of pine (*Pinus massoniana*) needles with two different nutrient-status to N deposition in a tropical pine plantation in southern China *Annals of Forest Science*, 2008, 65: 406. (IF₂₀₁₀=1.326)

21 **Jiangming Mo**, Sandra Brown, Jinghua Xue, Yunting Fang, Zhian Li, Dejun Li, Shaofeng Dong. Response of nutrient dynamics of decomposing pine (*Pinus massoniana*) needles to simulated N deposition in a disturbed and a rehabilitated forest in tropical China. *Ecological Research*, 2007, 22 (4): 649-658. (IF₂₀₁₀=1.279)

(四)、其它SCI论文

22 Yunting Fang, Per Gundersen, **Jiangming Mo**, Weixing Zhu. Input and output of dissolved organic and inorganic nitrogen in subtropical forests of South China under high air pollution. *Biogeosciences*, 2008, 5: 339-352. (IF₂₀₁₀=3.587, Top 10)

23 Dejun Li, Ximiming Wang, **Jiangming Mo**, Guoying Sheng, Jiamo Fu. Soil nitric oxide emissions from two subtropical humid forests in south China, *Journal of Geophysical Research*, 2007, 112, doi:10.1029/2007JD008680. (IF₂₀₁₀=3.303, Top 10)

- 24 Hui Wang, Shirong Liu, **Jiangming Mo**, Tao Zhang. Soil-atmosphere exchange of greenhouse gases in subtropical plantations of indigenous tree species. *Plant Soil*, 2010, 335:213–227. (IF₂₀₁₀=2.773, Top 10)
- 25 Hui Wang, Shirong Liu, **Jiangming Mo**. Correlation between leaf litter a among subtropical tree species. *Plant Soil*, 2010, 335:289–298. (IF₂₀₁₀=2.773, Top 10)
- 26 Dejun Li, Xinming Wang, Guoying Sheng, **Jiangming Mo**, Jiamo Fu, Soil nitric oxide emissions after nitrogen and phosphorus additions in two subtropical humid forests. *Journal of Geophysical Research*, 2008, 113, D16301, doi:10.1029/2007JD009375. (IF₂₀₁₀=3.303, Top 10)
- 27 Huajun Fang, Guirui Yu, Shulan Cheng, **Jiangming Mo**, Junhua Yan, Shengong Li. ¹³C abundance, water-soluble and microbial biomass carbon as potential indicators of soil organic carbon dynamics in subtropical forests at different successional stages and subject to different nitrogen loads. *Plant Soil*, 2009, 320:243–254. (IF₂₀₁₀=2.773, Top 10)
- 28 Yunting Fang, Muncoki Yoh, Kcisuke Koba, Weixing Zhu, Yu Takebayashi, Yihua Xiao, Chunyi Lei, **Jiangming Mo**, Wei Zhang, Xiankai Lu. Nitrogen deposition and forest nitrogen cycling along an urban-rural transect in southern China. *Global Change Biology*, 2011, 17, 872–885. (IF₂₀₁₀=6.346, Top 10)
- 29 Huajun Fang, Guirui Yu, Shulan Cheng, Tianhong Zhu, Jiaojiao Zheng, **Jiangming Mo**, Junhua Yan, Yiqi Luo. Nitrogen-15 signals of leaf-litter-soil continuum as a possible indicator of ecosystem nitrogen saturation by forest succession and N loads. *Biogeochemistry*, 2010, DOI 10.1007/s10533-010-9438-1. (IF₂₀₁₀=2.674, Top 10)
- 30 Fang Yunting, Per Gundersen, Wei Zhang, Jesper Riis Christiansen, **Jiangming Mo**, Shaofeng Dong, and Tao Zhang. Soil-atmosphere exchange of N₂O, CO₂ and CH₄ along a slope of an evergreen broad-leaved forest in southern China. *Plant and Soil*, 2009, 319:37–48. (IF₂₀₁₀=2.773, Top 10)
- 31 Guoyi Zhou, Shuguang Liu, Zhian Li, Deqiang Zhang, Xuli Tang, Chuanyan Zhou, Junhua Yan, **Jiangming Mo**. Old-Growth Forests Can Accumulate Carbon in Soils. *Science*, 2006, 314: 1417. (IF₂₀₁₀=31.364, Top 10)
- 32 Yunting Fang, Per Gundersen, **Jiangming Mo**, Weixing Zhu. Nitrogen leaching response to increased nitrogen inputs in subtropical monsoon forests in southern China. *Forest Ecology and Management*, 2009, 257:332-342. (IF₂₀₁₀=1.992, Top 30)
- 33 Yunting Fang, Weixing Zhu, Per Gundersen, **Jiangming Mo**, Guoyi Zhou, Muncoki Yoh. Large loss of dissolved organic nitrogen from nitrogen-saturated forests in subtropical China. *Ecosystems*, 2009, 12:33-45. (IF₂₀₁₀=3.679, Top 30)
- 34 K. Koba, K. Isobe, Y. Takebayashi, Y.T. Fang, Y. Sasaki, W. Saito, M. Yoh, **Jiangming Mo**, L. Liu, X.Lu, T. Zhang, W. Zhang and K. Senoo. δ¹⁵N of soil N and plants in a N-saturated, subtropical forest of southern China. *RAPID COMMUNICATIONS IN MASS SPECTROMETRY (Rapid Commun. Mass Spectrom.)* 2010; 24: 2499–2506. (IF₂₀₁₀=2.846, Top 30)
- 35 Zhigang Yi, Shenglei Fu, Weimin Yi, Guoyi Zhou, **Jiangming Mo**, Deqiang Zhang, Mingmao Ding, Xinming Wang, Lixia Zhou. Partitioning soil respiration of subtropical forests with different successional stages in south China. *Forest Ecol. Manage.* (2007), doi:10.1016/j.foreco.2007.02.022. (IF₂₀₁₀=1.992, Top 30)
- 36 Xiao Huilin, Shaolin Peng, **Jiangming Mo**, Zhuoguan Chen, Jinrong Wu. Relationships between the allelopathy and nutrients content in plant and soil. *Allelopathy Journal*, 2007, 19(2):297-310. (IF₂₀₁₀=0.635)
- 37 Hui Wang, Shirong Liu, **Jiangming Mo**, Jing-Xin Wang, Franz Makeschin, Maria Wolff. Soil organic carbon stock and chemical composition in four plantations of indigenous tree species in subtropical China. *Ecological Research (Ecol Res)* 2010, 25: 1071–1079. (IF₂₀₁₀=1.279)
- 38 Guoyi Zhou, Lili Guan, Xiaohua Wei, Deqiang Zhang, Qianmei Zhang, Junhua Yan, Dazhi Wen, Juxiu Liu, Shuguang Liu, Zhongliang Huang, Guohui Kong, **Jiangming Mo** and Qingfa Yu. Litterfall production along successional and altitudinal gradients of subtropical monsoon evergreen broadleaved forests in Guangdong, China. *Plant Ecology*, 2007, 188(1): 77-89. (IF₂₀₁₀=1.880)
- 39 Hao Yan-ru, Peng Shao-lin, **Mo Jiang-ming**, Liu Xin-wei, Chen Zhuo-quan, Zhou Kai, Wu Jin-rong. Roots of pioneer trees in the lower sub-tropical area of Dinghushan, Guangdong, China. *Journal of Zhejiang University SCIENCE B*, 2006 7(5):377-385. (IF₂₀₁₀=1.027)
- 40 Li Zhi-an, Zou bi, Xia Han-ping, Ren Hai, **Mo Jiang-ming**, Weng Hong, Tu Meng-zhao. Litterfall dynamics of evergreen broadleaf forest and pine forest in the subtropical region of China. *Forest Science*, 2005, 51(6):608-615. (IF₂₀₁₀=1.196)

(五)、第一或通讯作者的核心或英文论文

- 41 **Jiangming Mo**, Sandra Brown, Shaolin Peng, Guohui Kong, Yunting Fang. Effects of human-impacts on fine roots and soil organic matter of a pine forest in subtropical China. *Acta Ecologica Sinica*, 2005, 25(3):491~499.
- 42 **莫江明**, 方运霆, 林而达, 李玉娥. 鼎湖山主要森林土壤N₂O排放及其对模拟N沉降的响应. *植物生态学报*, 2006, 30 (6): 901-910.
- 43 **莫江明**, 方运霆, 李德军, 林而达, 李玉娥. 鼎湖山主要森林土壤CO₂排放和CH₄吸收特征. *广西植物*, 2006, 26(2) : 142-147.
- 44 **莫江明**, 方运霆, 徐国良, 李德军, 薛璟花. 鼎湖山苗圃和主要森林土壤CO₂排放和CH₄吸收对模拟N沉降的响应. *生态学报*, 2005, 25(4):682~690.
- 45 **莫江明**. 鼎湖山退化马尾松林、混交林和季风常绿阔叶林土壤全磷和有效磷比较. *广西植物*, 2005, 25(2):186~192.
- 46 **莫江明**, 彭少麟, Sandra Brown, 孔国辉, 方运霆. 鼎湖山马尾松林群落生物量生产对人为干扰的响应. *生态学报*, 2004, 24(2):193~200.
- 47 **莫江明**, 彭少麟, Sandra Brown, 方运霆, 孔国辉. 鼎湖山马尾松林群落植物养分积累动态及其对人为干扰的响应. *植物生态学报*, 2004, 28(6):810-822.

- 48 莫江明, 薛璟花, 方运霆. 鼎湖山主要森林植物凋落物分解及其对N沉降的响应. 生态学报, 2004, 24(7):1413~1420.
- 49 莫江明, 方运霆, 彭少麟, Sandra Brown, 周国逸. 鼎湖山亚热带常绿阔叶林碳素积累和分配特征. 生态学报, 2003, 23(10):1970-1976.
- 50 莫江明, 方运霆, 冯肇年, 孔国辉, 孟泽. 鼎湖山人为干扰下马尾松林水文生态功能. 热带亚热带植物学报, 2002, 10(2):99-104.
- 51 莫江明, 方运霆, 张德强, 孔国辉, 冯肇年. 2002. 鼎湖山马尾松林降水再分配对养分动态影响. 广西植物, 22(6):529-533.
- 52 莫江明, 周国逸, 彭少麟, 张德强, 余清发. 鼎湖山黄果厚壳桂、鼎湖钓樟群落植物主要营养元素的分布和生物循环研究. 热带亚热带植物学报, 2003, 11(2):99-103.
- 53 莫江明, Sandra Brown, 彭少麟, 孔国辉, 张德强, 张佑昌. 林下层植物在退化马尾松林恢复初期养分循环中的作用. 生态学报, 2002, 22(9):1407-1413.
- 54 Lu Xiankai, **Jiangming Mo***, Dong Shaofeng. Effects of nitrogen deposition on forest biodiversity. Acta Ecologica Sinica. 2008, 28(11):5532-5548. (<http://www.sciencedirect.com/>) SCI 收录
- 55 Hui Wang, **Jiangming Mo***, Xiankai Lu, Jinghua Xue, Jiong Li, Yunting Fang. Effects of elevated nitrogen deposition on soil microbial biomass carbon in major subtropical forests of southern China. Front. For. China (Frontiers of Forestry in China) 2009, 4(1): 21-27.
- 56 Zhang Wei, **Jiangming Mo***, Fang Yunting, Lu Xiankai, Wang Hui. Effects of nitrogen deposition on the greenhouse gas fluxes from forest soils. Acta Ecologica Sinica, 2008, 28(5): 2309-2319. (<http://www.sciencedirect.com/>)
- 57 张伟, 莫江明*, 方运霆, 鲁显楷, 王辉. 氮沉降对森林土壤主要温室气体通量的影响 (综述). 生态学报, 2008, 28(5): 2309-2319.
- 58 王辉, 莫江明*, 鲁显楷, 薛璟花, 李炯, 方运霆. 鼎湖山森林土壤微生物量碳对氮沉降的响应. 生态学报, 2008, 28(2): 470-478.
- 59 鲁显楷, 莫江明*, 董少峰. 氮沉降对森林生物多样性的影响 (综述). 生态学报, 2008, 28(11): 5532-5548.
- 60 薛璟花, 莫江明*, 李炯, 李德军. 土壤微生物数量对模拟氮沉降增加的早期响应. 广西植物, 2007, 27(2):174-179.
- 61 江远清, 莫江明*, 方运霆, 李志安. 鼎湖山主要森林类型土壤交换性阳离子含量及其季节动态特征. 广西植物, 2007, 27(1):106-113.
- 62 鲁显楷, 莫江明*, 李德军, 张伟, 方运霆. 鼎湖山主要林下层植物光合生理特性对模拟氮沉降的响应. 北京林业大学学报, 2007, 29(6): 1-9. (EI)
- 63 鲁显楷, 莫江明*, 彭少麟, 方运霆, 李德军, 林琼芳. 鼎湖山季风常绿阔叶林林下层3种优势树种游离氨基酸和蛋白质对模拟氮沉降的响应. 生态学报, 2006, 26(3):743-753.
- 64 徐国良, 莫江明*, 周国逸. N沉降下土壤动物群落的响应: 1年研究结果总述. 北京林业大学学报, 2006, 28(3): 1-7. (EI)
- 65 方华, 莫江明*. 氮沉降对森林凋落物分解的影响. 生态学报, 2006, 26(9):3127-3136. **被评为该刊物30年来100篇优秀论文.**
- 66 方华, 莫江明*. 活性氮增加: 一个威胁环境的问题 (综述). 生态环境, 2006, 15(1):164-168
- 67 王辉, 莫江明*, 薛璟花, 方运霆, 李炯. 氮沉降增加对森林凋落物分解酶活性的影响 (综述). 热带亚热带植物学报, 2006, 14(6):539-546.
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