

中国科学院水利部水土保持研究所

Institute of Soil and Water Conservation, CAS & MWR

西北农林科技大学水土保持研究所

Institute of Soil and Water Conservation, Northwest A&F University

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首页 (<http://www.iswc.cas.cn/>) » 人才工作

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简 历:

教育 (访问) 经历:1982-1986 内蒙古林学院 (现内蒙古农业大学), 大学本科, 农学学士;

1986-1989 山东农业大学, 硕士研究生, 农学硕士;

1998-2001 日本国立鸟取大学研究生院, 硕士研究生, 农学硕士;

2001-2004 日本国立鸟取大学联合研究生院, 博士研究生, 博士 (农学)。

工作经历:

1989-1998: 内蒙古林学院 (现内蒙古农业大学), 助教、讲师

2004-2007: 日本鸟取大学, 研究助理教授、博士后研究员

2007- : 中国科学院教育部水土保持与生态环境研究中心研究员。

社会任职:

中国林学会青工委常委

研究方向:

树木生理生态, 流域生态与管理, 森林生态系统功能与过程

承担科研项目情况:

- 1) 主持国家重点研发计划项目“黄土高原人工生态系统结构改善和功能提升技术”;
- 2) 主持中国科学院战略性先导科技专项子课题“中西部温带植被区域森林固碳现状、速率、机制和潜力研究”;
- 3) 主持国家自然科学基金面上项目“黄土高原森林-森林草原区过渡带天然辽东栎林耗水特性研究”;
- 4) 主持国家自然科学基金国际合作 (NSFC-JSPS) 项目“黄土高原半干旱区森林群落的水分利用和物质循环”。

代表论著:

1. 杜盛, 刘国彬 (等编著), 2015. 黄土高原植被恢复的生态功能, 科学出版社, 北京.
2. Tsunekawa A, Liu G, Yamanaka N, Du S (eds), 2014. Restoration and Development of the Degraded Loess Plateau, China. Springer, Tokyo. <http://dx.doi.org/10.1007/978-4-431-54481-4>
3. Tian Q, Taniguchi T, Shi WY, Li GQ, Yamanaka N, Du S*, 2017. Land-use types and soil chemical properties influence soil microbial communities in the semiarid Loess Plateau region in China. *Scientific Reports*. 7: 45289. <http://dx.doi.org/10.1038/srep45289>
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5. Yan MJ, Zhang JG, He QY, Shi WY, Otsuki K, Yamanaka N, Du S*, 2016. Sapflow-based stand transpiration in a semiarid natural oak forest on China's Loess Plateau. *Forests*. 7(10): 227. <http://dx.doi.org/10.3390/f7100227>
6. Li GQ, Xu GH, Guo K, Du S*, 2016. Geographical boundary and climatic analysis of *Pinus tabulaeformis* in China: Insights on its afforestation. *Ecological Engineering*. 86: 75-84. <http://dx.doi.org/10.1016/j.ecoleng.2015.10.032>
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8. Zhang JG, Guan JH, Shi WY, Yamanaka N, Du S*, 2015. Interannual variation in stand transpiration estimated by sap flow measurement in a semiarid black locust plantation, Loess Plateau, China. *Ecohydrology*. 8(1): 137-147. <http://dx.doi.org/10.1002/eco.1495>
9. Li GQ, Wen ZM, Guo K, Du S*, 2015. Simulating the effect of climate change on vegetation zone distribution on the Loess Plateau, northwest China. *Forests*. 6(6): 2092-2108. <http://dx.doi.org/10.3390/f6062092>
10. Li GQ, Xu GH, Guo K, Du S*, 2014. Mapping the global potential geographical distribution of black locust (*Robinia pseudoacacia* L.) using herbarium data and a maximum entropy model. *Forests*. 5(11): 2773-2792. <http://dx.doi.org/10.3390/f5112773>
11. Shi WY, Yan MJ, Zhang JG, Guan JH, Du S*, 2014. Soil CO₂ emissions from five different types of land use on the semiarid Loess Plateau of China, with emphasis on the contribution of winter soil respiration. *Atmospheric Environment*. 88: 74-82. <http://dx.doi.org/10.1016/j.atmosenv.2014.01.066>
12. Yan MJ, Yamamoto M, Yamanaka N, Yamamoto F, Liu GB, Du S*, 2013. A comparison of pressure-volume curves with and without rehydration pretreatment in eight woody species of the semiarid Loess Plateau. *Acta Physiologiae Plantarum*. 35(4): 1051-1060. <http://dx.doi.org/10.1007/s11738-012-1143-3>
13. Kume T, Otsuki K, Du S*, Yamanaka N, Wang YL, Liu GB. 2012. Spatial variation in sap flow velocity in semiarid region trees: its impact on stand-scale transpiration estimates. *Hydrological Processes*. 26(8): 1161-1168. <http://dx.doi.org/10.1002/hyp.8205>
14. Shi WY, Zhang JG, Yan MJ, Yamanaka N, Du S*, 2012. Seasonal and diurnal dynamics of soil respiration fluxes in two typical forests on the semiarid Loess Plateau of China: Temperature sensitivities of autotrophs and heterotrophs and analyses of integrated driving factors. *Soil Biology & Biochemistry*. 52: 99-107. <http://dx.doi.org/10.1016/j.soilbio.2012.04.020>
15. Shi WY, Tateno R, Zhang JG, Wang YL, Yamanaka N, Du S*, 2011. Response of soil respiration to precipitation during the dry season in two typical forest stands in the forest-grassland transition zone of the Loess Plateau. *Agricultural and Forest Meteorology*. 151(7): 854-863. <http://dx.doi.org/10.1016/j.agrformet.2011.02.003>
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