中国科学院生态环境研究中心

Research Center for Eco-Environmental Sciences,Chinese Academy of Sciences

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简历：

主要从事城市生态系统格局特征与演替，及其生态环境效应研究。主要应用遥感、地理信息系统与空间统计模型分析等技术方法，结合地面调查，研究：1）城市生态系统结构和格局定量化的理论、方法和技术；2）城市生态系统结构和格局动态的驱动机制；3）城市生态系统结构和格局与典型过程和功能的定量关系。2004—2011年，在国际上最有代表性的城市生态研究项目"巴尔迪摩城市生态系统研究"做研究工作。发表SCI收录论文近20篇。

教育背景：

博士： 自然资源，美国佛蒙特大学（University of Vermont），2004 - 2007

硕士： 地图学与地理信息系统，中科院遥感所，2001—2004

学士： 环境科学， 北京大学，1997 - 2001 （辅修计算机科学）

工作经历：

2011年9月 至今，中国科学院生态环境研究中心研究员

2008年6月 — 2011年8月，加州大学戴维斯分校 博士后

2007年6月 — 2008年5月，佛蒙特大学 博士后

研究方向：

城市生态学、遥感、地理信息系统

专家类别：

百人；研究员

职务：

社会任职：

承担科研项目情况：

1. 2011—2014："全国生态环境十年（2000-2010年）变化遥感调查与评估"专项项目"城市化区域生态环境十年变化调查与评估" 项目负责人；并承担其中的课题"京津唐城市群生态环境状况及十年变化遥感调查与评估"

2. 2011—2015：国家科技支撑计划 "城市热环境多尺度监测关键技术集成与示范"课题"城市绿色发展生态技术研究与示范"专题"城市热环境调控技术集成及示范"，主持

获奖及荣誉：

代表论著：

Wang H, W. Zhou, X. Wang, F. Gao, H. Zheng, L. Tong, Z. Ouyang. 2012. Ozone uptake by adult urban trees based on sap flow measurement. Environmental Pollution. 162: 275-286.

Zhou, W., G. Huang, and M. L. Cadenasso. 2011. Does spatial configuration matter? Understanding the effects of land cover pattern on land surface temperature in urban landscapes. *Landscape and Urban Planning*. 102(1): 54-63.

Zhou, W., G. Huang, and M. L. Cadenasso. 2011. 90 years of forest cover change in an urbanizing watershed: spatial and temporal dynamics. *Landscape Ecology*. 26: 645-659.

Huang, G., W. Zhou, and S. Ali. 2011. Spatial patterns of mining and tourism in biodiversity hotspots: A case study in China. *Ecological Economics*. 70(8): 1492-1498.

Huang, G., W. Zhou and M. L. Cadenasso. 2011. Is everyone hot is the city? Spatial pattern of land surface temperatures, land cover and neighborhood socioeconomic characteristics in Baltimore City, MD. *Journal of Environmental Management*. 92(7):1753-9.

Tenenbaum D.E., Y. Yang and W. Zhou. 2011. A Comparison of Object-oriented Image Classification and Transect Sampling Methods for Obtaining Land Cover Information from Digital Orthophotography. *GIScience and Remote Sensing*. 48(1): 112-129.

Li, W., Z. Ouyang, W. Zhou et al. 2011. Effects of spatial resolution of remotely sensed data on estimating urban impervious surfaces. *Journal of Environmental Sciences,* DOI: 10.1016/S1001-0742(10)60541-4.

Zhou, W., K. Schwarz and M. L. Cadenasso. 2010. Mapping Urban Landscape Heterogeneity Agreement between Visual Interpretation and Digital Classification Approaches. *Landscape Ecology*. 25(1): 53-67.

Smith, M., W. Zhou, M. Cadenasso, J. Grove, and L. Band. 2010. Evaluation of the NLCD for hydrologic applications in urban and suburban Baltimore, Maryland. *Journal of the American Water Resources Association*. 46 (2): 429-442.

Zhao, J. Z. Ouyang, H. Zheng, W. Zhou, X. Wang, W. Xu and Y. Ni. 2010. Plant species composition in green spaces within the built-up areas of Beijing, China. *Plant Ecology*. 209(2):.189-204.

Zhou, W. and A. Troy. 2009. Development of an object-oriented framework for classifying and inventorying human-dominated forest ecosystems. *International Journal of Remote Sensing*. 30(23):6343-6360.

Zhou, W., A. Troy, M. Grove and J. Jenkins, 2009, Can Money Buy Green? Demographic and Socioeconomic Predictors of Lawncare Expenditures and Lawn Greenness in Urban Residential Areas. *Society and Natural Resources*. 22(8): 744 -760.

Zhou, W., G. Huang, A. Troy, and M. Cadenasso. 2009. Object-based land cover classification of shaded areas in high spatial resolution imagery of urban areas: a comparison study. *Remote Sensing of Environment*, 113(8): 1769-1777.

Zhou, W. and A. Troy, 2008. An Object-oriented Approach for Analyzing and Characterizing Urban Landscape at the Parcel Level. *International Journal of Remote Sensing*. 29 (11):3119-3135.

Zhou, W., A. Troy, and J.M Grove, 2008. Object-based land cover classification and change analysis in the Baltimore Metropolitan Area using multi-temporal high resolution remote sensing data. *Sensors,* 8: 1613-1636.

Zhou, W., A. Troy, and M. Grove, 2008. Modeling household lawn fertilization practices: Integrating high-resolution remote sensing and socioeconomic data. *Environmental Management*. 41(5):742-752.

Zhou, W., S. Wang, Y. Zhou, and A. Troy. 2006. Mapping the concentrations of total suspended matter in Lake Taihu, China, using Landsat-5 TM data. *International Journal of Remote Sensing*. 27(6): 1177-1191.

Zhou, W., Y. Zhou, S. Wang, Q. Zhao. 2004. Research on prediction of grassland fire danger rating, *Journal of Natural Disasters*, 13(2):75-79. (In Chinese)

Zhou, Y., W. Zhou, S. Wang, P. Zhang, 2004. Applications of Remote Sensing Techniques in Inland Water Quality Monitoring, *Advances in Water Science*, 15(3): 312-317. (In Chinese)

Zhang, P., S. Wang, Y. Zhou, W. Zhou. 2004. Research on Estimating Vegetation Water Content from MODIS Data, *Remote Sensing Information*, 1: 19-22. (In Chinese)