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主要研究兴趣是通过数学模型和计算机模拟解释生态系统的模式，揭示其生态和进化机理，探索生物多样性的形成和维持机制。目前主要研究微生物群落的互动关系和网络结构。研究结果发表在 *Ecology Letters*、*Evolution*、*Animal Behaviour*、*Proceedings of the Royal Society* 等期刊上。论文被 *Nature*、*Science*、*PNAS*、*Nature Communications*、*Trends in Ecology & Evolution*、*PLoS Biology*、*New Phytologist*、*Ecology*、*Proc. Roy. Soc.*、*American Naturalist* 等期刊引用 400 多次，其中多次被 *Nature* 和 *Science* 引用。

教育经历

2001–2006 兰州大学，生态学，博士(硕博连读)

1993–1997 西北师范大学数学系，数学，学士

工作经历

2018–至今 安徽大学资源与环境工程学院教授

2015–2018 甘肃农业大学理学院特聘教授

2013–2014 南非斯坦陵布什大学数学系研究员

2009–2012 南非斯坦陵布什大学入侵生物研究中心博士后

2006–2009 甘肃农业大学理学院副教授

1997–2006 甘肃农业大学理学院助教和讲师

代表性论文

Zhang F., Tao Y., Li Z.Z., Hui C. (2010). The evolution of cooperation on fragmented landscapes: the spatial Hamilton rule. *Evolutionary Ecology Research*, 12: 23-33. (IF 1.692)

Zhang F.*, Hui C., Terblanche J.S. (2011). An interaction switch predicts the nested architecture of mutualistic networks. *Ecology Letters*, 14: 797-803. (IF 17.557)

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- Zhang D.H., Li X.R., **Zhang F.**, Zhang Z.S., Chen Y.L. (2016). Effects of rainfall intensity and intermittency on woody vegetation cover and deep soil moisture in dryland ecosystems in China. *Journal of Hydrology*, 543: 270–282. (IF 3.043)
- Li X.R., Zhang D.H., **Zhang F.**, Zhang P. (2017). The eco-hydrological threshold for evaluating the stability of sand-binding vegetation in different climatic zones. *Ecological Indicators*, 83: 404-415. (IF 3.288)
- Qin L.J., **Zhang F.***, Wang W.X., Song W.X. (2017). Interaction between Allee effect caused by organism-environment feedback and by other ecological mechanisms. *PLoS ONE*, 12(3): e0174141. (IF 2.806)
- Nuwagaba S., **Zhang F.***, Hui C. (2017) Robustness of rigid and adaptive networks to species loss. *PLoS ONE*, 12(12): e0189086. (IF 2.806)
- Yang, X.Q, **Zhang, F.***, Wang, W.X. (2019) Predation promotes cooperation in Prisoner's dilemma games. *Physica A*, 514: 20-24. (IF 2.132)
- Zhang D., Song W.X., Chen N.L., **Zhang F.***, The role of spatial scale in organism-environment positive feedback. *Nonlinearity Dynamics*, in press. (IF 4.339)