

植物生态学报

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Zhiwu Shengtai Xuebao

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封面说明: 额济纳胡杨林景观(赵晨光摄)。内蒙古额济纳河流域分布的胡杨(*Populus euphratica*)林是中国西北旱区具有代表性的荒漠河岸林。在气候变化背景下,旱区森林衰退日益加剧,成为全球森林生态学研究 and 生态恢复实践关注的重要问题。王嘉铮等综述了旱区森林衰退研究进展,梳理了旱区森林衰退的概念与特征,总结了全球及中国旱区森林衰退现状,分析了自然和人为因素对森林衰退的影响,并从个体、种群、群落和生态系统等尺度阐述了森林衰退的形成机制,提出了旱区森林衰退研究的未来重点方向,为深化旱区森林衰退机制认识和生态恢复实践提供了基础支撑(本期1023-1047页)。

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Cover illustration: *Populus euphratica* forest in Ejina (photograph by ZHAO Chen-Guang). The *P. euphratica* forests distributed in the Ejina River Basin of Nei Mongol represent an iconic desert riparian ecosystem in the drylands of northwestern China. Under accelerating climate change, dryland forest decline has become a pressing issue in global forest ecology and restoration science. In this issue (pages 1023-1047), Wang et al. provide a comprehensive review of research progress on dryland forest decline. They synthesize the concepts and characteristics of dryland forest decline, overview its current status both globally and across China's drylands, analyze the effects of natural and anthropogenic factors on forest decline, elucidate the decline mechanisms across individual, population, community, and ecosystem scales, and outline future research priorities. The review provides fundamental support for advancing the understanding of dryland forest decline mechanisms and ecological restoration practices in drylands.