

题 目：蒲公英橡胶提取工艺设计及研究进展

## 摘要

天然橡胶（NR）是一种重要的战略资源，但由于其主要来源巴西橡胶树具有苛刻的生长环境以及原产地叶疫病的泛滥，使得世界天然橡胶供给严重不平衡。一直以来，由于橡胶树种植条件的限制，我国的天然橡胶对外依存度远超警戒线，这严重阻碍了我国的经济的发展。蒲公英橡胶草（TKS）作为另一种天然橡胶产胶植物已经越来越受到人们的重视。截止目前，人们已经对蒲公英橡胶草的育种优化、产胶原理等进行了大量的研究并开始着手蒲公英橡胶的产业化问题。本文综述了蒲公英橡胶草橡胶目前的研究进展，总结了蒲公英橡胶在橡胶草的育种改良、栽培技术、分子生物学、提取保存、副产物开发等方面取得的各项成果以及对未来的展望，并通过正交试验的方法设计了蒲公英橡胶的提取工艺，以期得到比较优化的提取方案。

**关键词：**蒲公英橡胶；提取工艺；研究进展

## Abstract

Natural rubber (NR) is an important strategic resource. However, due to the harsh growing environment of Brazilian rubber trees and the spread of leaf blight in its origin, the natural rubber supply in the world is seriously unbalanced. For a long time, due to the restrictions of rubber tree planting conditions, China's natural rubber external dependence is far beyond the warning line, which has seriously hindered China's economic development. Dandelion rubber (TKS) as another natural rubber plant has been more and more attention. Up to now, people have done a lot of research on the breeding optimization of dandelion rubber and the principle of producing rubber, and started to work on the industrialization of dandelion rubber. Dandelion TKS rubber was reviewed in this paper, recent research progress of dandelion rubber are summarized in breeding improvement of TKS, cultivation techniques, molecular biology, extract, preservation, the result of the development of by-products, etc as well as the vision of the future, and through the orthogonal experiment method to design the dandelion rubber extraction process, in order to get more optimized extraction solution.

**Keywords:** dandelion rubber; extraction process; research progress

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