微藻能源产业化关键技术的研究进展 Technology of Microalgae Bioenergy Industrialization

李道义 李树君 刘天舒 赵凤敏 杨军太 李栋

中国农业大学

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摘 要： 微藻能源产业的发展，有望同时缓解我国所面临的能源紧缺、环境保护和CO2减排等方面的压力，对实现社会可持续发展具有重大意义。介绍了微藻能源的优势，综述了能源微藻藻种的筛选、微藻规模化培养与收获、微藻能源的转化利用以及微藻生物炼制等微藻能源产业化关键技术的研究进展，探索了适合我国当前形势的微藻能源产业化模式。 The development of microalgae bioenergy industry could realize the combination of bioenergy production, environmental protection and CO2 emission reduction, which had important potential for achieving the sustainable development of human society. The advantages of microalgae bioenergy and the key technologies of microalgae bioenergy industrialization (including the screening of microalgae strain, large-scale cultivation and harvest, conversion and utilization of microalgae energy, and bio-refining of microalgae biomass) were introduced, and the appropriate model of microalgae bioenergy industry based on the current situation was explored.

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