

عنوان مقاله:

Biomass Gasification Systems and Different Types of Gasifiers, Effective Parameters on Gasification Process
Efficiency: An Overview

محل انتشار:

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خلاصه مقاله:

Biomass is considered as an effective energy carrier to meet the needs of clean energy for the whole world, which need to have sustainable renewable energy. Among the various methods of biomass, gasification is commendable. It is considered as one of the most important restoration and thermochemical methods for converting biomass energy into gaseous fuels, thermal and electrical energies, as well as its use for the production of biofuels. But there are some obstacles, which can be solve by more research in this area. In this article, various obstacles such as supply chain management include harvesting the waste, collection on the site, transportation to gasification site and storage are each a part of this chain. biomass pretreatment, generic low biomass resources and syngas conditioning from biomass energy conversion have been mentioned. Based on recent studies, the biggest challenges for biomass gasification is to produce heat and power. Also, different technologies of reactor design until reaching to the most efficient and high-efficiency reactor have been discussed in this paper. Ultimately, the most advanced gasification .system with the most efficient gas conditioning technology can overcome all the mentioned obstacles

کلمات کلیدی:

biomass, Gasification, Sustainable, Renewable, energy

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