A scientometric analysis of the investigation of biomass gasification environmental impacts from 2001 to 2017

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Abstract

To reduce the effects of climate change due to massive CO 2 emissions, renewable energy sources have been implemented; among them biomass through gasification. An important aspect of studying are the environmental impacts of this process. Therefore, a search was made in the database of the science website using keywords gasification environmental impact in the period from 2001 to 2017. When analyzing the 238 articles, an increasing tendency was observed in the publication of studies related to the ecological effects of the biomass gasification process. The United States, the United Kingdom, Italy, Spain and the People's Republic of China are the countries that have the most studies on the subject. The indicator total local citation score is used in order to identify the items that are the most cited, which indicates the degree of development they have in the study of the impacts of gasification.

keywords

Biomass, Environmental impact, Gasification