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“CLEANER PRODUCTION INITIATIVES AND CHALLENGES FOR A SUSTAINABLE WORLD”

Sustainability and Environmental Preservation: A Bibliometric Study on Biofuels

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Abstract

The need to reduce greenhouse gases emission improves the interest in research and production of biofuels.

The main objective of this work is to understand the literature of biofuels, more specifically related to the strategies adopted by countries seeking sustainability and environmental preservation. For this, the authors performed a bibliometric study with content analysis. The database chosen was ISI Web of Knowledge (Web of Science), with the topics “biofuels” and “strategy”. One hundred thirty works were obtained, but the authors chose to only analyze articles, decreasing the number to eighty-nine jobs, which involved three hundred seventy-nine authors, sixty-four journals and thirty-six countries. After reading the abstracts, thirteen articles were excluded because they did not fit the theme, resulting a final sample of seventy-six articles, between 1999 and 2010.

The authors analyzed the publications (journals and most important areas) and citations (frequency, most cited articles, citations of articles to references). The journals that published more articles on the topic were: Biomass & Bioenergy, Energy Policy, Environmental Science & Technology, Proceedings of the National Academy of Sciences of the United States of America. The main areas were: agriculture, bacteria / protein, biomass, fuel consumption, emissions and energy.

Keywords: *biofuels, strategy, bibliometric study.*
