Review of: "Biofuels and nanocatalysts: A Data Mining study"

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Potential competing interests: The author(s) declared that no potential competing interests exist.

REVIEW

to the article "Biofuels and nanocatalysts: A Data Mining study" by Fernando Gomes de Souza Jr , Prof (Dr) Kaushik Pal, Aruzza Mabel de Morais Araújo, Fabíola da Silveira Maranhão, Priscila Domingues

The paper proposes a new data processing procedure using the similarity visualization method using the VOSviewer program and Python. Expert evaluation of the results of the analysis allows you to determine the most important trends and factors of scientific and technological development in the chosen field of study.

The collected data predominantly indicate the direction of the latest scientific efforts to improve the quality of diesel engines. If we consider the concept of biofuel more strictly, then a distinction is made between liquid biofuels (for internal combustion engines, for example, ethanol, methanol, biodiesel), solid biofuels (wood, briquettes, fuel pellets, wood chips, straw, fire, husks) and gaseous (synthesis gas , biogas, hydrogen). Therefore, the title of the article and the field of study should be formulated more precisely.

Since this topic is very dynamic, it is necessary to focus on the most significant publications with a large number of citations. Why was the selection of the most influential publications by the number of citations not made? Perhaps it was necessary to enter some kind of filter and see the result.

The publications related to the physical, including electromagnetic, activation of fuel components to improve the efficiency of combustion of fuel mixtures were not reflected in the study.