

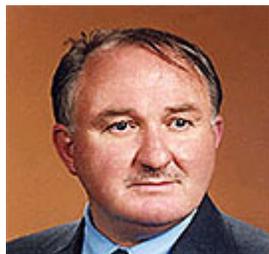
2010 : April 2010 - Fast Breaking Papers : Ayhan Demirbas Discusses Progress in Biodiesel Fuels

## fast breaking papers - 2010

April 2010



**Ayhan Demirbas talks with *ScienceWatch.com* and answers a few questions about this month's Fast Breaking Paper in the field of Engineering.**



**Article Title: Progress and recent trends in biodiesel fuels**

Authors: **Demirbas, A**

Journal: ENER CONV MANAGE

Volume: 50

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Page: 14-34

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### **SW: Why do you think your paper is highly cited?**

This work has attracted considerable interest because the subject of motor fuel and its effect in the daily lives of people maintains a keen interest.

The paper examines entirely new areas of engine fuel research, summarizes recent trends, and discusses the most important current methods used to produce biodiesel fuels.

### **SW: Would you summarize the significance of your paper in layman's terms?**

Biodiesel fuels are attracting increasing attention worldwide, acting as blending components or direct replacements for diesel fuel in vehicle engines.

Biodiesel fuel is a renewable substitute fuel for petroleum diesel or petrodiesel fuel made from vegetable or animal fats; it can be used in any mixture with petrodiesel fuel, as it has very similar characteristics, but it has lower exhaust emissions.

Biodiesel fuel has better properties than petrodiesel fuel; it is renewable, biodegradable, non-toxic, and essentially free of sulfur and aromatics.

### **SW: Where do you see your research leading in the future?**

Biodiesel seems to be a realistic fuel for future use and it has become more attractive recently because of its environmental benefits. Biodiesel is an

*"There are significant socioeconomic impacts associated with investment in a new power plant, including increases in employment, output, and income for the local and regional economy."*

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environmentally friendly fuel that can be used in any diesel engine, without modification.

**SW: Are there any social or political implications for your research?**

The biodiesel policy aims to promote the use in transport of fuels made from biomass, as well as other renewable fuels.

Policy drivers for renewable liquid biofuels have attracted particularly high levels of assistance in some countries, given their promise of benefits in several areas of interest to governments, which include agricultural production, greenhouse gas emissions, energy security, trade balances, rural development, and economic opportunities for developing countries.

The socioeconomic impacts on a local economy arising from providing power through renewable resources instead of conventional generation technologies are very important.

These impacts include direct and indirect differences in jobs, income, and gross output.

There are significant socioeconomic impacts associated with investment in a new power plant, including increases in employment, output, and income for the local and regional economy.

Increases in these categories occur as labor is directly employed in the construction and operation of a power plant, as local goods and services are purchased and utilized.

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KEYWORDS: Biodiesel; Vegetable oil; Viscosity; Transesterification; Catalyst; Renewability, FREE FATTY-ACIDS; COMPRESSION IGNITION ENGINE; TROPICAL VEGETABLE-OILS; WASTE COOKING OIL; JATROPHA-CURCAS L; DIESEL-ENGINE; RAPESEED OIL; SUPERCRITICAL METHANOL; SOYBEAN OIL; PALM OIL .

**Additional information:**

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[back to top](#) 

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