



# **Handbook of Biofuels Production: Processes and Technologies (Woodhead Publishing Series in Energy)**

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## **Handbook of Biofuels Production: Processes and Technologies (Woodhead Publishing Series in Energy) From Woodhead Publishing**

In response to the global increase in the use of biofuels as substitute transportation fuels, advanced chemical, biochemical and thermochemical biofuels production routes are fast being developed.

Research and development in this field is aimed at improving the quality and environmental impact of biofuels production, as well as the overall efficiency and output of biofuels production plants. The range of biofuels has also increased to supplement bioethanol and biodiesel production, with market developments leading to the increased production and utilisation of such biofuels as biosyngas, biohydrogen and biobutanol, among others.

Handbook of biofuels production provides a comprehensive and systematic reference on the range of biomass conversion processes and technology. Part one reviews the key issues in the biofuels production chain, including feedstocks, sustainability assessment and policy development.

Part two reviews chemical and biochemical conversion and in turn Part three reviews thermal and thermo-chemical conversion, with both sections detailing the wide range of processes and technologies applicable to the production of first, second and third generation biofuels. Finally, Part four reviews developments in the integration of biofuels production, including biorefineries and by-product valorisation, as well as the utilisation of biofuels in diesel engines.

With its distinguished international team of contributors, Handbook of biofuels production is a standard reference for biofuels production engineers, industrial chemists and biochemists, plant scientists, academics and researchers in this area.

- A comprehensive and systematic reference on the range of biomass conversion processes and technologies
- Addresses the key issues in the biofuels production chain, including feedstocks, sustainability assessment and policy development
- Reviews chemical and bio-chemical conversion techniques as well as thermal

and thermo-chemical conversion, detailing the range of processes and technologies applicable to biofuels production

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### **Editorial Review**

#### **Review**

Strongly recommended as a comprehensive mini-encyclopedia to all concerned with fossil fuel substitution, having a vision of energy sustainability., Materials World

#### **About the Author**

Prof. Rafael Luque has significant experience in biomass and waste valorisation practices for the production of materials, fuels and chemicals. From 2009, he has been a Ramon y Cajal Fellow at University of Cordoba in Spain, but has also spent sabbatical periods at the EPA in Cincinnati, the Max Planck in Berlin and City University of Hong Kong

Prof James Clark is a founding director of the world-leading Green Chemistry Centre of Excellence at the University of York, UK.

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