



# **Handbook of Biofuels Production, Second Edition (Woodhead Publishing Series in Energy)**

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## **Handbook of Biofuels Production, Second Edition (Woodhead Publishing Series in Energy) From Woodhead Publishing**

Handbook of Biofuels Production, Second Edition, discusses advanced chemical, biochemical, and thermochemical biofuels production routes that are fast being developed to address the global increase in energy usage.

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 book provides a comprehensive and systematic reference on the range of biomass conversion processes and technology.

Key changes for this second edition include increased coverage of emerging feedstocks, including microalgae, more emphasis on by-product valorization for biofuels' production, additional chapters on emerging biofuel production methods, and discussion of the emissions associated with biofuel use in engines.

The editorial team is strengthened by the addition of two extra members, and a number of new contributors have been invited to work with authors from the first edition to revise existing chapters, thus offering fresh perspectives.

- Provides systematic and detailed coverage of the processes and technologies being used for biofuel production
- Discusses advanced chemical, biochemical, and thermochemical biofuels production routes that are fast being developed to address the global increase in energy usage
- Reviews the production of both first and second generation biofuels
- Addresses integrated biofuel production in biorefineries and the use of waste materials as feedstocks



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## **Handbook of Biofuels Production, Second Edition (Woodhead Publishing Series in Energy) From Woodhead Publishing Bibliography**

- Sales Rank: #8122401 in Books
- Published on: 2016-07-04
- Original language: English
- Number of items: 1
- Dimensions: 9.10" h x 1.70" w x 6.10" l, 3.26 pounds
- Binding: Hardcover
- 770 pages

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### **Editorial Review**

#### **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

Dr Carol Sze Ki Lin is an Assistant Professor in the School of Energy and Environment at the City at University of Hong Kong

Prof. Karen Wilson is Chair of Catalysis and Research Director of the European Bioenergy Research Institute (EBRI).

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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