

# Contents

- Information on the Authors 9
- Foreword 13
- Physical and Environmental Approaches for Energy Sources 17  
*Thiago Libório Romanelli*
- Agroenergy and Long Lasting Development 35  
*Bruno Marangoni & Giovambattista Sorrenti*
- The Impact of the Economic Crisis on The Brazilian Sugar Cane Industry:  
Stretching the Bio Based Economy 63  
*Peter Zuurbier & Jos van de Vooren*
- Will Politics Kill Biofuels? 83  
*Philippe Faucher & Simon Langlois-Bertrand*
- Climate Change Regime: New Trends of Sustainability Strategies for a Society  
in Transition 97  
*Gisele Ferreira de Araújo*
- The Role of Biofuel on Global Warming Mitigation 115  
*Francisco F. C. Mello, Marília B. Chiavegato, Leidivan A. Frazão, Karina  
Cenciani, Brigitte J. Feigl, Martial Bernoux & Carlos C. Cerri*

Environmental Analyses on Biofuels: The Case of the Brazilian  
Fuel Ethanol 129

*Aldo Roberto Ometto*

An Overview on Sugarcane Planting and Harvesting 153

*Tomaz Caetano Cannavam Ripoli & Thiago Libório Romanelli*

Social Inclusion of Rural Workers 171

*Márcia Azanha Ferraz Dias de Moraes*

Agroenergy and Natural Resources 199

*Daniela Bacchi Bartholomeu*

The Market for Oil Crops: A Causality Analysis of Commodities  
for Biofuel and Crude Oil Prices 225

*João Gomes Martines-Filho, Carolina Pereira Guimarães & Natália Zancan*

Biomass-Derived Alcohols as a Renewable Source for Hydrogen  
Production 241

*Pilar Ramíres de la Piscina & Narcís Homs*

Energy-Intensive Production: Social, Environmental and Economical  
Consequences 257

*Célio Bermann*