

**THE ROLE OF CATALYSIS FOR THE SUSTAINABLE
PRODUCTION OF BIO-FUELS AND BIO-CHEMICALS**

Keith Erik Repko

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The Role of Catalysis for the Sustainable Production of Bio-fuels and Bio- chemicals describes the importance of catalysis for the sustainable production of .

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Because of the many difficulties in converting cellulose into sugars, the companies operating in the field of sugar conversion to bioproducts need to use the relatively expensive and scarce sugar as their base material; therefore, for economical reasons, they are focusing on the production of higher value specialties and hence have not yet been able to successfully penetrate the very competitive transportation fuels market. The Rheinau or Bergius process [18,19] was one of the means by which Nazi Germany obtained sufficient fuel for their war machine, even though they did not capture the oil fields of the Middle East.

Very few books are available on catalysis in production schemes using biomass. Chicago: Triantafyllidis, Kostas. Reviews Editorial reviews.

With energy prices rapidly rising, environmental concerns growing, and regulatory apparatus evolving, this book is a resource with tutorial, research, and technological value for chemists, chemical engineers, policymakers, and students. Lemonidou, P. The term biomass covers a wide range of plant and plant-derived materials, including biodegradable wastes. Be the .