



## Production of Biofuels and Chemicals from Lignin /

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editor  
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editor

Springer Singapore :  
Imprint: Springer,  
2016

Libros electrónicos

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Monografía

This book provides state-of-the-art reviews, current research on and the prospects of lignin production, biological, thermal and chemical conversion methods, and lignin technoeconomics. Fundamental topics related to lignin chemistry, properties, analysis, characterization, and depolymerization mechanisms, as well as enzymatic, fungal and bacterial degradation methods are covered. The book also examines practical topics related to technologies for lignin and ultra-pure lignin recovery, activated carbon, carbon fiber production and materials, and addresses the biological conversion of lignin with fungi, bacteria or enzymes to produce chemicals, along with chemical, catalytic, thermochemical and solvolysis conversion methods. Lastly, it presents a case study on practical polyurethane foam production using lignin. Lignin has a bright future and will be an essential feedstock for producing renewable chemicals, biofuels and value-added products. Offering comprehensive information on this promising material, the book represents a valuable resource for students, researchers, academicians and industrialists in the field of biochemistry and energy

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**Título:** Production of Biofuels and Chemicals from Lignin edited by Zhen Fang, Richard L. Smith, Jr

**Editorial:** Singapore Springer Singapore Imprint: Springer 2016

**Descripción física:** 1 recurso en línea XV, 435 p. 152 illus., 56 illus. in color

**Mención de serie:** Biofuels and Biorefineries 2214-1537 Springer eBooks

**Contenido:** Part I: Lignin and Its Production (Chapters 1-3) -- Part II: Biological Conversion (Chapters 4-6) -- Part III: Chemical Conversion (Chapters 7-12) -- Part IV: Techno-economics

**Detalles del sistema:** Modo de acceso: World Wide Web

**ISBN:** 9789811019654 978-981-10-1965-4

**Materia:** Life sciences Renewable energy resources Biochemistry Forestry Renewable energy sources Alternate energy sources Green energy industries Life Sciences Biochemistry, general Renewable and Green Energy Forestry

**Autores:** Fang, Zhen., editor Smith, Jr., Richard L., editor

**Entidades:** SpringerLink (Online service)

**Punto acceso adicional serie-Título:** Biofuels and Biorefineries 2214-1537

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