

1.	Record Nr.	UNINA990000682400403321
	Autore	Root, James
	Titolo	Fundamentals of landscaping and site planning / James Root
	Pubbl/distr/stampa	Westport : AVI Publishing Company, 1985
	Descrizione fisica	IX, 158 p. : ill. ; 28 cm
	Disciplina	635.9
	Locazione	DINST
	Collocazione	01 A1 III 5
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9910253451203321
	Autore	Scipione, Luigi
	Titolo	Strumenti e politiche di salvataggio nella crisi dei debiti sovrani : (gli interventi della BCE e dei Fondi salva-Stati nello spazio giuridico europeo) / Luigi Scipione
	Pubbl/distr/stampa	Napoli : Edizioni scientifiche italiane, 2016
	ISBN	978-88-495-3143-5
	Descrizione fisica	420 p. ; 24 cm
	Collana	Quaderni della Rivista di diritto dell'impresa ; 20
	Disciplina	332.112094
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3. Record Nr.	UNINA9910813105103321
Titolo	Aqueous pretreatment of plant biomass for biological and chemical conversion to fuels and chemicals // editor, Charles E. Wyman
Pubbl/distr/stampa	Chichester, West Sussex [U.K.], : Wiley, 2013
ISBN	9781118560402 111856040X 9780470975831 0470975830 9781299449367 1299449360 9780470975824 0470975822
Edizione	[1st ed.]
Descrizione fisica	1 online resource (568 p.)
Collana	Wiley series in renewable resources
Altri autori (Persone)	WymanCharles
Disciplina	333.95/39
Soggetti	Plant biomass Biomass energy Biomass chemicals Biotechnology
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Formato	Materiale a stampa
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Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Aqueous Pretreatment of Plant Biomass for Biological and Chemical Conversion to Fuels and Chemicals; Contents; List of Contributors; Foreword; Series Preface; Preface; Acknowledgements; 1 Introduction; 1.1 Cellulosic Biomass: What and Why?; 1.2 Aqueous Processing of Cellulosic Biomass into Organic Fuels and Chemicals; 1.3 Attributes for Successful Pretreatment; 1.4 Pretreatment Options; 1.5 Possible Blind Spots in the Historic Pretreatment Paradigm; 1.6 Other Distinguishing Features of Pretreatment Technologies; 1.7 Book Approach; 1.8 Overview of Book Chapters; Acknowledgements; References 2 Cellulosic Biofuels: Importance, Recalcitrance, and Pretreatment2.1 Our Place in History; 2.2 The Need for Energy from Biomass; 2.3 The Importance of Cellulosic Biomass; 2.4 Potential Barriers; 2.5 Biological

and Thermochemical Approaches to the Recalcitrance Barrier; 2.6 Pretreatment; Acknowledgements; References; 3 Plant Cell Walls: Basics of Structure, Chemistry, Accessibility and the Influence on Conversion; 3.1 Introduction; 3.2 Biomass Diversity Leads to Variability in Cell-wall Structure and Composition; 3.3 Processing Options for Accessing the Energy in the Lignocellulosic Matrix 3.4 Plant Tissue and Cell Types Respond Differently to Biomass Conversion 3.5 The Basics of Plant Cell-wall Structure; 3.6 Cell-wall Surfaces and Multilamellar Architecture; 3.7 Cell-wall Ultrastructure and Nanoporosity; 3.8 Computer Simulation in Understanding Biomass Recalcitrance; 3.8.1 What Can We Learn from Molecular Simulation?; 3.8.2 Simulations of Lignin; 3.8.3 Simulations of Cellulose; 3.8.4 Simulation of Lignocellulosic Biomass; 3.8.5 Outlook for Biomass Simulations; 3.9 Summary; Acknowledgements; References 4 Biological Conversion of Plants to Fuels and Chemicals and the Effects of Inhibitors 4.1 Introduction; 4.2 Overview of Biological Conversion; 4.3 Enzyme and Ethanol Fermentation Inhibitors Released during Pretreatment and/or Enzyme Hydrolysis; 4.3.1 Enzyme Inhibitors Derived from Plant Cell-wall Constituents (Lignin, Soluble Phenolics, and Hemicellulose); 4.3.2 Effect of Furfurals and Acetic Acid as Inhibitors of Ethanol Fermentations; 4.4 Hydrolysis of Pentose Sugar Oligomers Using Solid-acid Catalysts 4.4.1 Application of Solid-acid Catalysts for Hydrolysis of Sugar Oligomers Derived from Lignocelluloses 4.4.2 Factors Affecting Efficiency of Solid-acid-catalyzed Hydrolysis; 4.5 Conclusions; Acknowledgements; References; 5 Catalytic Strategies for Converting Lignocellulosic Carbohydrates to Fuels and Chemicals; 5.1 Introduction; 5.2 Biomass Conversion Strategies; 5.3 Criteria for Fuels and Chemicals; 5.3.1 General Considerations in the Production of Fuels and Fuel Additives; 5.3.2 Consideration for Specialty Chemicals; 5.4 Primary Feedstocks and Platforms; 5.4.1 Cellulose 5.4.2 Hemicellulose

Sommario/riassunto

Plant biomass is attracting increasing attention as a sustainable resource for large-scale production of renewable fuels and chemicals. However, in order to successfully compete with petroleum, it is vital that biomass conversion processes are designed to minimize costs and maximize yields. Advances in pretreatment technology are critical in order to develop high-yielding, cost-competitive routes to renewable fuels and chemicals. Aqueous Pretreatment of Plant Biomass for Biological and Chemical Conversion to Fuels and Chemicals presents a comprehensive overview of the currently