1. Record Nr. UNINA9910140851703321

Titolo	Plant biomass conversion [[electronic resource] /] / editors: Elizabeth E. Hood, Peter Nelson, Randy Powell
Pubbl/distr/stampa	Ames, IA, : Wiley-Blackwell, 2011
ISBN	9780470959138 1-282-25142-2 9786613813879 0-470-95909-6 0-470-95913-4 0-470-95905-3
Descrizione fisica	1 online resource (375 p.)
Collana	Biomass and biofuels series Plant biomass conversion
Altri autori (Persone)	HoodElizabeth E NelsonPeter <1974-> (Peter Allan) PowellRandall Worth
Disciplina	333.9539 662.88 662/.88
Soggetti	Plant biomass Biomass conversion Biomass conversion - Environmental aspects Biomass energy Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Plant Biomass Conversion; Contents; Contributors; Preface; 1 The Bioeconomy: A New Era of Products Derived from Renewable Plant-Based Feedstocks; 2 Agricultural Residues; 3 Growing Systems for Traditional and New Forest-Based Materials; 4 Dedicated Herbaceous Energy Crops; 5 Municipal Solid Waste as a Biomass Feedstock; 6 Water Sustainability in Biomass Cropping Systems; 7 Soil Sustainability Issues in Energy Crop Production; 8 Fermentation Organisms for 5- and 6-Carbon Sugars; 9 Pretreatment Options; 10 Enzyme Production Systems for Biomass Conversion; 11 Fermentation-Based Biofuels

	12 Biobased Chemicals and Polymers13 Carbon Offset Potential of Biomass-Based Energy; 14 Biofuel Economics; Index
Sommario/riassunto	A whole host of motivations are driving the development of the "renewables" industry- ranging from the desire to develop sustainable energy resources to the reduction of dangerous greenhouse gases that contribute to global warming. All energy utilized on the earth is ultimately derived from the sun through photosynthesis-the only truly renewable commodity. As concerns regarding increasing energy prices, global warming and renewable resources continue to grow, so has scientific discovery into agricultural biomass conversion. Plant Biomass Conversion addresses both the development o