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Titolo	Biofuel technologies : recent developments // Vijai Kumar Gupta, Maria G. Tuohy, editors
Pubbl/distr/stampa	Berlin ; ; Heidelberg, : Springer-Verlag, 2013
ISBN	1-299-33625-6 3-642-34519-0
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (532 p.)
Altri autori (Persone)	GuptaVijai Kumar TuohyMaria G
Disciplina	662.88
Soggetti	Biomass energy Renewable energy sources
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Second Generation Bio-ethanol and Renewable Chemicals from Lignocellulosics -- Potential Bio-resources as Future Sources of Biofuels Production: An Overview -- The Role of Fungal Enzymes in Global Biofuel Production and Biorefinery -- Progress in Physical and Chemical Pretreatment of Lignocellulosic Biomass -- Acid Pretreatment Technologies and SEM Analysis of Treated Grass Biomass in Biofuel Processing -- Progress on Enzymatic Saccharification Technologies for Biofuels Production -- Fermentative Bio-hydrogen Production using Microbial Consortia -- Bio-hydrogen As Biofuel: Future Prospects and Avenues for Improvements -- Biohydrogen Production From Microalgae -- Microbial Glycoside Hydrolases for Biomass Utilization in Biofuels Applications -- Microbial Fuel Cells for Sustainable Bioenergy Generation: Principles and Perspective Applications -- Biomethanation Potential of Biological and Other Wastes -- Production of Bioethanol from Biomass: An Overview -- Biobutanol Production from Biomass -- Developing Cellulolytic Organisms for Consolidated Bioprocessing of Lignocellulosics -- Life-cycle Environmental Impacts of Biofuels and Co-products -- Sustainability Assessment of Palm Biodiesel Production in Thailand -- The Principle and Applications of Bioelectrochemical Systems -- Fermentable Sugars from Ligno-cellulosic Biomass: Technical Challenges.

Sommario/riassunto Biofuels are considered to be the main potential replacement for fossil fuels in the near future. In this book international experts present recent advances in biofuel research and related technologies. Topics include biomethane and biobutanol production, microbial fuel cells, feedstock production, biomass pre-treatment, enzyme hydrolysis, genetic manipulation of microbial cells and their application in the biofuels industry, bioreactor systems, and economical processing technologies for biofuel residues. The chapters provide concise information to help understand the technology-related implications of biofuels development. Moreover, recent updates on biofuel feedstocks, biofuel types, associated co- and byproducts and their applications are highlighted. The book addresses the needs of postgraduate researchers and scientists across diverse disciplines and industrial sectors in which biofuel technologies and related research and experimentation are pursued.

2. Record Nr.	UNINA9910298469003321
Autore	Xu Zeshui
Titolo	Uncertain Multi-Attribute Decision Making : Methods and Applications / / by Zeshui Xu
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2015
ISBN	3-662-45640-0
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (375 p.)
Disciplina	330 330.0151 519.6 658.40301
Soggetti	Operations research Econometrics Management science Operations Research and Decision Theory Quantitative Economics Operations Research, Management Science
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.
Nota di contenuto	Part 1 Real-Valued MADM Methods and Their Applications -- Real-Valued MADM with Weight Information Unknown -- MADM with Preferences on Attribute Weights -- MADM with Partial Weight Information -- Part 2 Interval MADM Methods and Their Applications -- Interval MADM with Real-Valued Weight Information -- Interval MADM with Unknown Weight Information -- Interval MADM with Partial Weight Information -- Part 3 Linguistic MADM Methods and Their Applications -- Linguistic MADM with Unknown Weight Information -- Linguistic MADM Method with Real-Valued or Unknown Weight Information -- MADM Method Based on Pure Linguistic Information -- Part 4 Uncertain Linguistic MADM Methods and Their Applications -- Uncertain Linguistic MADM with Unknown Weight Information -- Uncertain Linguistic MADM Method with Real-Valued Weight Information -- Uncertain Linguistic MADM Method with Interval Weight Information.
Sommario/riassunto	This book introduces methods for uncertain multi-attribute decision making including uncertain multi-attribute group decision making and their applications to supply chain management, investment decision making, personnel assessment, redesigning products, maintenance services, military system efficiency evaluation. Multi-attribute decision making, also known as multi-objective decision making with finite alternatives, is an important component of modern decision science. The theory and methods of multi-attribute decision making have been extensively applied in engineering, economics, management and military contexts, such as venture capital project evaluation, facility location, bidding, development ranking of industrial sectors and so on. Over the last few decades, great attention has been paid to research on multi-attribute decision making in uncertain settings, due to the increasing complexity and uncertainty of supposedly objective aspects and the fuzziness of human thought. This book can be used as a reference guide for researchers and practitioners working in e.g. the fields of operations research, information science, management science and engineering. It can also be used as a textbook for postgraduate and senior undergraduate students.