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Descrizione fisica	1 online resource (94 pages) : illustrations (color)
Collana	SpringerBriefs in Applied Sciences and Technology.
Disciplina	662.88
Soggetti	Biocombustibles Piles de combustible microbianes Microalgues - Biotecnologia Microbial fuel cells Microalgae - Biotechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	1. Introduction2. Genetically Modified Microalgae for Biofuel Production Strain Selection2. Cultivation and Harvesting of Genetically Modified Microalgae3. Residue from Biofuel Extraction4. Health and Environmental Concerns of Fourth Generation Biofuels5. Regulations on Cultivation and Processing of the Genetically Modified Algae6. Carbon dioxide sequestration7. Water Footprint8. Current Status and Key Challenges
Sommario/riassunto	This book examines the background of fourth-generation biofuel production, use of genetically modified microalgae for production of fourth-generation biofuels; cultivation and harvesting of genetically modified microalgae; residue from biofuel extraction; health and environmental concerns of fourth-generation biofuels; regulations on cultivation and processing of the genetically modified algae; carbon dioxide sequestration; water footprint and current status and key challenges. The topic caters to academic researchers and industrial experts, who work in the field of biofuels as source of alternative fuel to achieve environmental and economic sustainability.

