

1. Record Nr.	UNINA9910595076803321
Autore	Maglaras Leandros
Titolo	Cyber Security and Critical Infrastructures
Pubbl/distr/stampa	Basel, : MDPI Books, 2022
Descrizione fisica	1 electronic resource (326 p.)
Soggetti	Technology: general issues History of engineering & technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This book contains the manuscripts that were accepted for publication in the MDPI Special Topic "Cyber Security and Critical Infrastructure" after a rigorous peer-review process. Authors from academia, government and industry contributed their innovative solutions, consistent with the interdisciplinary nature of cybersecurity. The book contains 16 articles: an editorial explaining current challenges, innovative solutions, real-world experiences including critical infrastructure, 15 original papers that present state-of-the-art innovative solutions to attacks on critical systems, and a review of cloud, edge computing, and fog's security and privacy issues.

2. Record Nr.	UNINA9910254011103321
Titolo	Algal Biofuels : Recent Advances and Future Prospects / / edited by Sanjay Kumar Gupta, Anushree Malik, Faizal Bux
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-51010-X
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XIII, 466 p. 71 illus., 49 illus. in color.)
Disciplina	660.6 628
Soggetti	Environmental engineering Biotechnology Renewable energy resources Botanical chemistry Environmental management Biochemical engineering Chemical engineering Environmental Engineering/Biotechnology Renewable and Green Energy Plant Biochemistry Environmental Management Biochemical Engineering Industrial Chemistry/Chemical Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Recent Advances and Future Prospects of Microalgal Lipid Biotechnology -- Comprehensive Screening of Micro and Macro-Algal Species for Bioenergy -- Microalgae for Biofuels: Applications, Process Constraints and Future Needs -- Algal Biofilm Systems – An Answer to Algal Biofuel Dilemma -- Algal Technologies for Wastewater Treatment and Biofuels Production: An Integrated Approach for Environmental Management -- Exploring Microalgae Consortia for Biomass Production: A Synthetic Ecological Engineering Approach Towards

Sustainable Production of Biofuel Feedstock -- Modeling The Effects of Operational Parameters on Algae Growth -- Recent Advances in Improving Ecophysiology of Microalgae for Biofuels -- Phycoremediation of Heavy Metals Coupled with Generation of Bio-Energy -- Critical Evaluation of Algal Biofuel Production Processes Using Wastewater -- Advancements in Algal Harvesting Techniques for Biofuel Production -- Key Issues in Pilot Scale Production, Harvesting, and Processing of Algal Biomass for Bio-Fuels -- Algal Biomass Pretreatment for Improved Biofuel Production -- Environmental and Economic Sustainability of Algal Lipid Extractions: Inessential Approach for the Commercialization of Algal Biofuels -- Catalytic Conversion of Microalgal Lipids to Biodiesel: Overview and Recent Advances -- Biomethanation Potential of Algal Biomass -- Technological Advances in Biohydrogen Production from Microalgae -- Hydrothermal Liquefaction: A Promising Pathway for Biorefinery of Algae -- Recent Advances in Production of Biofuel and Commodity Chemicals from Algal Biomass -- Challenges and Opportunities in Commercialisation of Algal Biofuels -- Ecological, Economical and Life Cycle Assessment of Algae and its Biofuel.

Sommario/riassunto

This edited volume focuses on comprehensive state-of-the-art information about the practical aspects of cultivation, harvesting, biomass processing and biofuel production from algae. Chapters cover topics such as synthetic ecological engineering approaches towards sustainable production of biofuel feedstock, and algal biofuel production processes using wastewater. Readers will also discover more about the role of biotechnological engineering in improving ecophysiology, biomass and lipid yields. Particular attention is given to opportunities of commercialization of algal biofuels that provides a realistic assessment of various techno-economical aspects of pilot scale algal biofuel production. The authors also explore the pre-treatment of biomass, catalytic conversion of algal lipids and hydrothermal liquefaction with the biorefinery approach in detail. In a nut shell, this volume will provide a wealth of information based on a realistic evaluation of contemporary developments in algal biofuel research with an emphasis on pilot scale studies. Researchers studying and working in the areas of environmental science, biotechnology, genetic engineering and biochemistry will find this work instructive and informative. .
