

1. Record Nr.	UNINA9910437821303321
Titolo	Green Materials for Energy, Products and Depollution [[electronic resource] /] / edited by Eric Lichtfouse, Jan Schwarzbauer, Didier Robert
Pubbl/distr/stampa	Dordrecht : , : Springer Netherlands : , : Imprint : Springer, , 2013
ISBN	94-007-6836-2
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (487 p.)
Collana	Environmental Chemistry for a Sustainable World, , 2213-7114 ; ; 3
Disciplina	333.7916
Soggetti	Environmental chemistry Water pollution Climate change Renewable energy resources Electrical engineering Environmental Chemistry Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution Climate Change Renewable and Green Energy Electrical Engineering
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	1. Biodiesel from microalgal oil extraction -- 2 . Electrochemistry and water pollution -- 3. Heterogeneous photocatalysis for pharmaceutical wastewater treatment -- 4. Water depollution using ferrites photocatalysts -- 5. Bioindicators of toxic metals -- 6. Natural dyes and antimicrobials for textiles -- 7. Surfactants in agriculture -- 8. Cheap materials to clean heavy metal polluted waters -- 9. Water quality monitoring by aquatic bryophytes -- 10. Halogenated PAH contamination in urban soils.
Sommario/riassunto	Using renewable fuels and materials, drinking clean water and food, and breathing safe air are major issues for a sustainable world. This book reviews biodiesel production from microalgae, a promising energy source that does not compete with food production. Several advanced techniques to clean polluted waters, such as electrochemistry, ferrites

photocatalysis and low-cost filtration are presented. Chapters also show various living organisms used as bioindicators of toxic metals. Decreasing ecotoxicity of pesticides using suitable surfactants is reviewed. The last chapter evidences new pollutants in urban soils, halogenated polycyclic aromatic hydrocarbons.
