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Autore	Berliner, Arnold
Titolo	Physikalisches Handworterbuch / herausgegeben von Arnold Berliner und Karl Scheel
Pubbl/distr/stampa	Berlin : J. Springer, 1924
Descrizione fisica	VI, 903 p. : ill. ; 28 cm
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Lingua di pubblicazione	Italiano
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Pubbl/distr/stampa	Dordrecht : , : Springer Netherlands : , : Imprint : Springer, , 2015
ISBN	94-007-7887-2
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (196 p.)
Disciplina	333.7 570 580 581.7
Soggetti	Botany Renewable energy resources Plant ecology Environmental health Environmental management Plant Sciences Renewable and Green Energy Plant Ecology Environmental Health Environmental Management

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Nota di contenuto	Preface -- 1. Bio-Fuels: A Blessing in Disguise; O. Surriya et al -- 2. Energy, environment and the future of mankind; Y.T. Lee -- 3. Phyto-cover phyto-treatment technologies for enhancing environmental remediation at aluminium smelting site in India; M.N.V. Prasad -- 4. Chromium and nickel phytotoxicity; A. Fargašová, K. Miieta -- 5. Physio-anatomical responses of plants to heavy metals; R. Batool et al -- 6. Integration of different bioindication methods (for chemical elements) – The multi-markered-bioindication-concept (MMBC); B. Markert et al -- 7. Interaction between plants and biosurfactant producing micro-organisms in petroleum contaminated Absheron soils; E. Akhundova, Y. Atakishiyeva -- 8. Phytoremediation of crude oil-contaminated soil by Medicago sativa (alfalfa) and the effect of oil on its growth; S. Minoui et al -- 9. Evaluation of Amaranthus retroflexus L. and its root associated fungi for bioremediation of petroleum polluted soils; F. Mohsenzadeh, A. Chehregam. 10. Reciprocal effects of oil-contaminated soil and Festuca arundinacea (Tall Fescue); D. Minai-Tehrani et al -- 11. Development of a new program to reduce total petroleum hydrocarbons; Time-analysis in heavy petroleum-contaminated soils by using GC-FID; R. Shirdam et al -- 12. Fundamentals of hydrogen production via biotechnology (Bio-H2); N. Azbar -- 13. The examination of effects of polycyclic aromatic hydrocarbons (PAH) on ecological system; N.Çalarirmak et al -- 14. Evaluation of Senecio glaucus L. and its root-associated fungi for bioremediation of crude oil polluted soils; F. Mmohsenzadeh, A. Chehregani Rad -- 15. Study of root and shoot peroxidase activation in Festuca arundinacea in the light oil-contaminated soil; Z. Ghafari et al -- Index.
Sommario/riassunto	The demand for energy is rapidly increasing to fulfill the need of the rapidly increasing human population. The production of GREEN ENERGY is a dream of human kind. Despite the discovery of renewable sources of energy such as hydroelectric, wind and solar energy, use of thermal power plants powered by oil, coal and gas is vital to run the economy of the majority of developing countries. This, of course, puts pressure on the petroleum industry to extract and refine substantial quantities of crude oil to fulfill this demand. Resultantly, incidents of oil pollution have become very common due to oil spills during extraction, refining and transportation processes. Unfortunately, organic compounds do not degrade easily by natural degradation processes and stay in the environment for a long time. Therefore, they continue posing environmental and health risks to living organisms. Plants and microbes are of vital importance for our planet. They can be used as a potential source for phytoremediation of inorganic as well as organic pollutants so as to clean the environment. We need to explore opportunities to find potential candidates to fortify our efforts of bio-remediation. This book is an effort to explore the possibilities of using plants and microbes to clean the organic and inorganic pollutants present in our environment thereby fulfilling our objective of green energy production.