

1. Record Nr.	UNINA9910973125803321
Titolo	Renewable resources : obtaining, processing, and applying // Ryszard Kozlowski, Gennady Zaikov, and Frank Pudel editors
Pubbl/distr/stampa	New York, : Nova Science Publishers, c2009
ISBN	1-61209-365-5
Edizione	[1st ed.]
Descrizione fisica	1 online resource (353 p.)
Altri autori (Persone)	KozowskiR (Ryszard) ZaikovG. E <1935-> (Gennadii Efremovich) PudelFrank
Disciplina	660.6
Soggetti	Biomass energy Plant biotechnology Renewable natural resources
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	Intro -- CONTENTS -- PREFACE -- BREEDING FOR NON-FOOD APPLICATIONS AND BIOTECHNOLOGY -- THE EFFICIENT IN VITROMICROPROPAGATION OF WHITE MULBERRY (MORUS ALBA L.) -- THE EFFECT OF MEDIUM COMPOSITION AND EXPLANT SOURCE ON PLANT REGENERATION OF SALVIA OFFICINALIS L. -- METHODS TO INCREASE FIBER FLAX RESISTANCE TO BIOTIC AND ABIOTIC STRESS -- THE EFFECT OF SOWING DENSITY ON SEED AND PANICLE YIELDS OF INDUSTRIAL HEMP -- BIOMODIFICATION OF HEMP AND FLAX FIBRES -- APPLICATION OF BIO-TECHNOLOGY IN PRE-TREATMENT OF COTTON TEXTILES TO ENHANCE QUALITY -- REMOVAL OF SOLVENTS FROM PLANT MATERIALS -- DETECTION OF ESTROGENIC ACTIVITIES IN ENVIRONMENTAL SAMPLES, URINE AND MILK BY A NOVEL YEAST BIOSENSOR -- BIODEGRADATION OF FILM POLYMER COATING ON THE BASIS OF CHITOSAN -- THE EFFECT OF ADDITION OF FLAXSEED OIL TO THE DIET OF LAYING HENS HOUSED IN THE DIFFERENT HOUSING SYSTEM ON THE NUTRITIONAL VALUE OF THE EGGS -- BIO-DAMAGES OF MATERIALS. ADHESION OF MICROORGANISMS ON MATERIALS SURFACE -- USE AND ASSESSMENT OF RENEWABLE RESOURCES AND PLANT BY-PRODUCTS -- POLYMERS AND CHEMICALS FROM THE AGRO-

RESOURCES -- ANTHOCYANINS: THEIR ROLE, PROCESSING AND APPLICATION -- BIODEGRADATION AND MEDICAL APPLICATION OF MICROBIAL POLY(3-HYDROXYBUTYRATE) -- THE APPLICATION OF HEMP ESSENTIALS OILS IN FINISHING OF NONWOVENS -- CELLULOSIC NANOFIBRE COMPOSITES -- FLUIDIZED BED EXTRACTION OF SPICE PLANTS USING SUPERHEATED STEAM -- RED AND PURPLE NATURAL DYE STUFFS AS AN EXCELLENT UV BARRIER -- ENERGETIC USE OF BIOMASS -- STUDY ON THE UTILIZATION OF JATROPHA CURCAS L. FOR POWER GENERATION PURPOSES AT THE ISABELA ISLAND (GALAPAGOS - ECUADOR) -- ENERGY POTENTIAL OF CROP RESIDUES IN NIGERIA -- INTEGRATED PROCESS SYSTEMS TO RECOVER ENERGY FROM BIOMASS IN FUEL CELLS (PROBIO) -- ENVIRONMENTAL IMPACT -- ENVIRONMENTAL PROBLEMS IN PRODUCTION OF HIGH-DENSITY ACTIVATED CARBON FROM WOOD. FIELDS OF OZONE APPLICATIONS -- CONTRIBUTORS -- INDEX.

Sommario/riassunto

Generally the topics presented in this book cover wide aspects connected with renewable resources, how they can be obtained, assessed, processed and finally applied. The new crops, very often with the improved genetics, become the key to the successful plant biotechnology, bio-fuels, biocomposites and agro-fine chemicals. New agriculture resources like Jatropha as well as older ones like flax and hemp, kenaf, jute, sisal are discussed as well. A special focus is on the diversification of renewable resources for non-food applications, including fibres, pulp and paper, agro-fine chemicals and energy.
