Journal Of Environmental Polymer Degradation Impact Factor

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Wonderland polymer clay notebook/ journal cover**Polymer Clay (04) Journal cover tutorial - Black Book Doodle** *Mod-01 Lec-30 lecture-30-Environmental Degradation of Polymers* 11. Introduction of Advanced Plastics ¦ Introduction to Polymer Degradation ¦ Composite Plastics ~~December Daily Collaging with Prompts - Dec 15/Altered Book Junk Journal/Adding a Photo~~ *Mod-01 Lec-41 Degradation of composites, polymers and ceramics, corrosion and society* polymer degradation ~~Polymer Clay Journal Cover Tutorial | Leafy Nature Fantasy DIY Book Cover~~ *The Selection of Soil Strength for a Stability Analysis - 1997 Buchanan Lecture by T. William Lambe* **Journal Of Environmental Polymer Degradation**
The journal is intentionally interdisciplinary in regard to contributions and covers the following subjects - polymers, environmentally degradable polymers, and degradation pathways: biological, photochemical, oxidative and hydrolytic; new environmental materials: derived by chemical and biosynthetic routes; environmental blends and composites; developments in processing and reactive processing of environmental polymers; characterization of environmental materials: mechanical, physical, ...

Journal of Polymers and the Environment ¦ Home
Polymer degradation is a change in the properties— tensile strength, color, shape, etc.—of a polymer or polymer-based product under the influence of one or more environmental factors such as heat, light or chemicals

Journal Of Environmental Polymer Degradation
JOURNAL OF ENVIRONMENTAL POLYMER DEGRADATION related ISSN: 1572-8900 Country: United States. Subject: BIOLOGY; PHYSICS AND SPACE SCIENCES; INDUSTRIAL ENGINEERING; CHEMISTRY. Academic field: MATERIALS SCIENCE; ENVIRONMENTAL SCIENCES ...

JOURNAL OF ENVIRONMENTAL POLYMER DEGRADATION - 1064-7546 ...
Environmental degradation of polymeric materials can occur by physical, chemical, and biological processes or a combination of them, under the effect of several factors such as temperature (thermal degradation), air (oxidative degradation), moisture (hydrolytic degradation), microorganisms (biodegradation), light (photo degradation), high-energy radiation (UV, γ irradiation), chemical agents (corrosion), mechanical stress . These factors lead to irreversible changes in the material, which ...

Polymers ¦ Free Full-Text ¦ Environmental Degradation of ...
The journal is intentionally interdisciplinary in regard to contributions and covers the following subjects - polymers, environmentally degradable polymers, and degradation pathways: biological, photochemical, oxidative and hydrolytic; new environmental materials: derived by chemical and biosynthetic routes; environmental blends and composites; developments in processing and reactive processing of environmental polymers; characterization of environmental materials: mechanical, physical, ...

Journal of Polymers and the Environment ¦ Aims and scope
Journal of Environmental Polymer Degradation ¦ RG Journal ... Polymer Degradation and Stability deals with the degradation reactions and their control which are a major preoccupation of practitioners of the many and diverse aspects of modern polymer technology. Deteriorative reactions occur during processing, when polymers are subjected to heat,

Journal Of Environmental Polymer Degradation Impact Factor
Abstract With the increased use of graphite‐reinforced composites as replacements for metals has come concerns about durability under harsh environmental conditions. Degradation is expected to begi... Environmental degradation of an epoxy resin matrix - Luoma - 1986 - Journal of Applied Polymer Science - Wiley Online Library.

Environmental degradation of an epoxy resin matrix - Luoma ...
The environmental degradation mechanisms for plastics can be classified as either (i) physical, referring to changes in the bulk structure, such as cracking, embrittlement, and flaking, or (ii) chemical, referring to changes at the molecular level such as bond cleavage or oxidation of long polymer chains to create new molecules, usually with ...

Degradation Rates of Plastics in the Environment ¦ ACS ...
Polymer Degradation and Stability deals with the degradation reactions and their control which are a major preoccupation of practitioners of the many and diverse aspects of modern polymer technology. Deteriorative reactions occur during processing, when polymers are subjected to heat, oxygen and mechanical...

Polymer Degradation and Stability - Journal - Elsevier
The journal is intentionally interdisciplinary in regard to contributions and covers the following subjects - polymers, environmentally degradable polymers, and degradation pathways: biological, photochemical, oxidative and hydrolytic; new environmental materials: derived by chemical and biosynthetic routes; environmental blends and composites; developments in processing and reactive processing of environmental polymers; characterization of environmental materials: mechanical, physical ...

Journal of Polymers and the Environment ¦ Publons
Synthetic plastics, which are widely present in materials of everyday use, are ubiquitous and slowly‐degrading polymers in environmental wastes. Of special interest are the capabilities of microorganisms to accelerate their degradation. Members of the metabolically diverse genus Pseudomonas are of particular interest due to their capabilities to degrade and metabolize synthetic plastics.

Degradation and metabolism of synthetic plastics and ...
The journal is intentionally interdisciplinary in regard to contributions and covers the following subjects - polymers, environmentally degradable polymers, and degradation pathways: biological, photochemical, oxidative and hydrolytic; new environmental materials: derived by chemical and biosynthetic routes; environmental blends and composites; developments in processing and reactive processing of environmental polymers; characterization of environmental materials: mechanical, physical ...

Journal of Polymers and the Environment
Read the latest articles of Polymer Degradation and Stability at ScienceDirect.com, Elsevier ' s leading platform of peer-reviewed scholarly literature

Polymer Degradation and Stability ¦ Journal ...
The Handbook of Environmental Degradation of Materials, Third Edition, explains how to measure, analyze and control environmental degradation for a wide range of industrial materials, including metals, polymers, ceramics, concrete, wood and textiles exposed to environmental factors, such as weather, seawater, and fire. This updated edition divides the material into four new sections, Analysis and Testing, Types of Degradation, Protective Measures and Surface Engineering, then concluding with ...

Handbook of Environmental Degradation of Materials ...
This experimental investigation reports on the durability of epoxy-clay nanocomposites upon exposure to multiple environments. Nanocomposites are fabricated by mixing the clay particles using various combinations of mechanical mixing, high-shear dispersion, and ultrasonication. Clay morphology is characterized using X-ray diffraction and transmission electron microscopy.

Environmental Degradation and Durability of Epoxy-Clay ...
Polymer degradation is a change in the properties— tensile strength, color, shape, etc.—of a polymer or polymer-based product under the influence of one or more environmental factors such as heat, light or chemicals such as acids, alkalis and some salts.

Polymer degradation - Wikipedia
Nadarajah Vasanthan, Hande Gezer, Thermally induced crystallization and enzymatic degradation studies of poly (L‐lactic acid) films, Journal of Applied Polymer Science, 10.1002/app.38015, 127, 6, (4395-4401), (2012).

Antioxidant control of polymer biodegradation - Scott ...
After degradation, holes in the PCL films exposed to pH 0 were observed, and the loss of the carbonyl stretch was monitored at 1723 cm−1. As particle size decreased, polymer degradation increased, indicating an increase in aerosol acidity at smaller particle diameters.

Aerosol Acidity Sensing via Polymer Degradation ...
Journal of Environmental Polymer Degradation ¦ The Journal of Polymers and the Environment fills the need for an international forum in this diverse and rapidly expanding field. The journal serves ...

This handbook covers characteristics, processability and application areas of biodegradable polymers, with key polymer family groups discussed. It explores the role of biodegradable polymers in different waste management practices including anaerobic digestion, and considers topics such as the different types of biorefineries for renewable monomers used in producing the building blocks for biodegradable polymers.

In recent years the use of renewable resources as chemical feedstocks for the synthesis of polymeric materials has attracted considerable attention. The reason for such activity is due to the finite nature of traditional petrochemical derived compounds in addition to economic and environmental considerations. Thus a key goal of the coming years will be the development of sustainable raw materials for the chemical industry that will replace current fossil-based feedstocks. The challenge for researchers is to develop natural and manmade synthetics that would reduce the emission of gases. This book gives a thorough overview of the manufacture and uses of low environmental impact polymers. This book will provide information for the experienced user of polymers wanting to use biodegradable materials and also be useful to designers, specifiers, end users and waste managers.

Biopolymers Reuse, Recycling and Disposal is the first book covering all aspects of biopolymer waste management and post-usage scenarios, embracing existing technologies, applications, and the behavior of biopolymers in various waste streams. The book investigates the benefits and weaknesses, social, economic and environmental impacts, and regulatory aspects of each technology. It covers different types of recycling and degradation, as well as life cycle analysis, all supported by case studies, literature references, and detailed information about global patents. Patents in particular—comprising 80% of published technical literature in this emerging field, widely scattered, and often available in Japanese only—are a key source of information. Dr. Niaounakis draws on disciplines such as polymer science, management, biology and microbiology, organic chemistry, environmental chemistry, and patent law to produce a reference guide for engineers, scientists and other professionals involved in the development and production of biopolymers, waste management, and recycling. This information is also valuable for regulators, patent attorneys and academics working in this field. Explores techniques and technologies involved in managing biopolymers in the waste stream, including recycling and upcycling Provides waste management and recycling professionals the knowledge they need to plan for the exponential growth in biopolymer waste Helps engineers and product designers fully consider the end-of-life aspects of their environmentally sustainable 'green' products and solutions

The first book to extensively cover nanoparticles, this addresses some of the key issues in nanocomposites. Polymer nanocomposites (polymers reinforced with nanoparticles), are of great interest due to their remarkable mechanical, thermal, chemical properties as well as optical, electronic, and magnetic applications Potential applications include automobile body parts, high-barrier packaging materials, flame-retardants, scratch-resistant composites, and biodegradable nanocomposites Combines basic theory as well as advanced and in-depth knowledge of these properties Broad audience includes researchers in Materials Science, Physics, Polymer Chemistry, and Engineering, and those in industry

Advanced polymer-based nanocomposite materials continue to become increasingly popular and important for a wide range of engineering applications, as evidenced by continued government initiatives involving R&D and commercialization of these substances. In the race to exploit the unique mechanical, thermal, and electrical properties of nanocomposite materials, researchers must also address new challenges to predict, understand, and manage the potentially adverse effects they could have on human lives and the environment. Nano- and Biocomposites focuses on the structural makeup of nanomaterials and their range of applications. It details the latest research in which biological applications of nanostructural resins have been conducted within in vitro and in vivo environments. Some of the applications explored in this book include: Tissue engineering and growth Mechanical and thermal stability enhancement of biocompatible polymers for artificial joints and scaffolding Thermal management for directed energy weapons, deicing, and electronics Structural performance for primary and secondary airframe structures, jet engines Electrical conductivity for lightning-strike protection, EMI, ESD, and energy storage Durability for chemical, wear, flame retardance, permeability Health monitoring for NDE certification, damage detection, and long-term degradation This compilation of author contributions is divided into two sections—Nanostructured Polymer Composites and Nano-Bio Composites. It provides a basic understanding of nanomaterial and nanocomposite research to explain the fundamentals of how nanostructured fillers strengthen polymer-based materials. With an emphasis on how nano- and biocomposites are used to create new biomedical applications, the text also focuses on the crucial yet often-ignored potential toxicity impact of using nanostructured materials. It presents important guidelines and new insights to stimulate investigation of anticipated research in this fascinating new field. Researchers, scientists, and academics will appreciate this cutting-edge exploration of nanomaterials, biomaterials, and the ever-evolving world of nano-biomaterials.

Reactive and functional polymers are manufactured with the aim of improving the performance of unmodified polymers or providing functionality for different applications. These polymers are created mainly through chemical reactions, but there are other important modifications that can be carried out by physical alterations in order to obtain reactive and functional polymers. This volume presents a comprehensive analysis of these reactive and functional polymers. Reactive and Functional Polymers Volume Four considers surface interactions, modifications and reactions, as well as reactive processes for recycling polymers and their biodegradability and compostability. World renowned researchers from Argentina, Austria, China, Egypt, France, Iran, Italy, Nepal and United States have participated in this book. With its comprehensive scope and up-to-date coverage of issues and trends in Reactive and Functional Polymers, this is an outstanding book for students, professors, researchers and industrialists working in the field of polymers and plastic materials.

Polymers from natural sources are particularly useful as biomaterials and in regenerative medicine, given their similarity to the extracellular matrix and other polymers in the human body. This important book reviews the wealth of research on both tried and promising new natural-based biomedical polymers, together with their applications as implantable biomaterials, controlled-release carriers or scaffolds for tissue engineering. The first part of the book reviews the sources, processing and properties of natural-based polymers for biomedical applications. Part two describes how the surfaces of polymer-based biomaterials can be modified to improve their functionality. The third part of the book discusses the use of natural-based polymers for biodegradable scaffolds and hydrogels in tissue engineering. Building on this foundation, Part four looks at the particular use of natural-gelling polymers for encapsulation, tissue engineering and regenerative medicine. The penultimate group of chapters reviews the use of natural-based polymers as delivery systems for drugs, hormones, enzymes and growth factors. The final part of the book summarises research on the key issue of biocompatibility. Natural-based polymers for biomedical applications is a standard reference for biomedical engineers, those studying and researching in this important area, and the medical community. Examines the sources, processing and properties of natural based polymers for biomedical applications Explains how the surfaces of polymer based biomaterials can be modified to improve their functionality Discusses the use of natural based polymers for hydrogels in tissue engineering, and in particular natural gelling polymers for encapsulation and regenerative medicine

The remediation of environmental pollutants has become a relevant topic within the field of waste management. Advances in biological approaches are a potential tool for contamination and pollution control. The Handbook of Research on Microbial Tools for Environmental Waste Management is a critical scholarly resource that explores the advanced biological approaches that are used as remediation for pollution cleanup processes. Featuring coverage on a broad range of topics such as biodegradation, microbial dehalogenation, and pollution controlling treatments, this book is geared towards environmental scientists, biologists, policy makers, graduate students, and scholars seeking current research on environmental engineering and green technologies.

Rapid industrialization has resulted in the generation of huge quantities of hazardous waste, both solid and liquid. Despite regulatory guidelines and pollution control measures, industrial waste is being dumped on land and discharged into water bodies without adequate treatment. This gross misconduct creates serious environmental and public health