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Nanosols and Textiles—World Scientific

Get this from a library! Nanosols and textiles. [Boris Mahltig; Torsten Textor] -- The book provides a short introduction to the sol-gel process, principles in modification of the sols and technical details of the application on textiles, covering in particular the chemical content ...

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New properties of textiles gained from nanosols are summarized and explained in a broad range, focusing on the mechanical and thermal stability, repellent properties, optical properties, antistatic An active discussion is held on the bioactive modifications, because this wide and interesting field offers a high potential for many new applications, e.g. in medicine.

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The range of nanosol modification and new application is set broadly, from new material properties used for improvement of bullet-proof vests up to new biological functions used in medicine to develop advantageous wound bandages.The book provides a short introduction to the sol-gel process, principles in modification of the sols and technical details of the application on textiles, covering in particular the chemical content of the topic.New properties of textiles gained from nanosols are ...

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In order to prepare nanocoated textile materials, there are certain distinct methodologies, including coating by the dispersion of well-defined nano-oxides, functionalisation by inorganic sol gel coating, the layer-by-layer deposition method and embedding the nanoparticles onto the fibres' surfaces by cross-linking agents, such as water-based polysiloxane emulsion and (poly)carboxylic acid.

Nanosols—an overview | ScienceDirect Topics

New properties of textiles gained from nanosols are summarized and explained in a broad range, focusing on the mechanical and thermal stability, repellent properties, optical properties ...

Nanosols for Smart Textiles—ResearchGate

In textile industry, the main aim of coating of a textile by nanosols is to absorb or reflect visible, UV, or IR light over a broad range of the spectrum or even at certain wavelengths. In single molecules, the optical properties are determined by the energetic gap between molecular orbitals especially the highest occupied molecular orbital (HOMO) and lowest unoccupied molecular orbitals (LUMO).

Application of Nanosols in Textile Industry—Amirhossein...

nanosols (especially silica and titanium dioxide sols) in the field of textile industry, including the formation of hydrophobic, bioactive or protective metallic oxide coatings on textiles by physical or chemical modifying of nanosols. Keywords sol–gel, inorganic nanoparticles, modifying, textile industry Introduction

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Building upon the solid foundation of the first edition, this revised and expanded book describes recent advances, adding key information, case studies... Nanosols and textiles By Mahltig, Boris

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Applications of nanosols for textile finishing: flame retardant and antibacterial properties improvement. Giuseppe Rosace Dipartimento di Ingegneria e Scienze Applicate, Università di Bergamo Chemical finishing techniques are extensively used to improve some properties of natural and synthetic fibers and fabrics.

Applications of nanosols for textile finishing: flame ...

The topic of silanes and other coupling agents/adhesion promoters is of tremendous contemporary interest because of their application in many and varied technologically important areas ranging from coatings to reinforced composites to dentistry to biomedical (e.g., for bonding nucleotides to the so-called â€˜gene chipsâ€™™). In addition to their traditional use for bonding different ...

This book provides a broad introduction to the field of nanosol application for textile functionalization, a current 'hot' topic of research. Besides a short review of the basics, the focus is on new applications gained with the new materials onto the classic and multiple-times-used textile materials. The range of nanosol modification and new application is set broadly, from new material properties used for improvement of bullet-proof vests up to new biological functions used in medicine to develop advantageous wound bandages.The book provides a short introduction to the sol-gel process, principles in modification of the sols and technical details of the application on textiles, covering in particular the chemical content of the topic. New properties of textiles gained from nanosols are summarized and explained in a broad range, focusing on the mechanical and thermal stability, repellent properties, optical properties, antistatic coatings and bioactive coatings. An active discussion is held on the bioactive modifications, because this wide and interesting field offers a high potential for many new applications, e.g. in medicine. Besides basic research, this book will also provide examples on the transition of academic research to customer products.

Functionalized nanomaterials have extremely useful properties, which can outperform their conventional counterparts because of their superior chemical, physical, and mechanical properties and exceptional formability. They are being used for the development and innovation in a range of industrial sectors. However, the use of functionalized nanomaterials is still in its infancy in many industrial settings. Functionalized nanomaterials have the potential to create cheaper and more effective consumer products and industrial processes. However, they also could have adverse effects on the environment, human health, and safety, and their sustainability is questionable, if used incorrectly. This book discusses the opportunities and challenges of using functionalized nanomaterials in a variety of major industrial sectors. Handbook of Functionalized Nanomaterials for Industrial Applications provides a concise summary of the major applications of functionalized nanomaterials in industry today. It covers the enhancements in industrial techniques and processes, due to functionalized nanomaterials, showing how they substantially improve the performance of existing procedures, and how they can deliver exciting consumer products more cheaply. Emphasis is given to greener approaches, leading to more sustainable products and devices. The legal, economical, and toxicity aspects of functionalized nanomaterials are also discussed in detail. Highlights established industrial applications of functionalized nanomaterials and discusses their future potential for a range of industrial sectors Discusses how functionalized nanomaterials are being used to create new types of commercial products and devices Assesses the challenges of using functionalized nanomaterials in industry, setting out major safety and regulatory challenges

Smart Textiles: Wearable Nanotechnology provides a comprehensive presentation of recent advancements in the area of smart nanotextiles giving specific importance to materials and production processes. Different materials, production routes, performance characteristics, application areas and functionalization mechanisms are covered. The book provides a guideline to students, researchers, academicians and technologists who seek novel solutions in the related area by including groundbreaking advancements in different aspects of the diverse smart nanotextiles fields. This ground-breaking book is expected to spark an inspiration to allow future progress in smart nanotextiles research. The diversity of the topics, as well as the expert subject-matter contributors from all over the world representing various disciplines, ensure comprehensiveness and a broad understanding of smart nanotextiles.

The textile industry is focused in its search for alternative green fibres with the aim of providing high-quality products which are fully recyclable and biodegradable. Natural textile materials from renewable sources play an increasingly important role in the industry due to their unique properties and functionality over synthetic fibres, as well as their sustainability. Antimicrobial Textiles from Natural Resources is an in-depth guide to the latest methods and applications of natural antimicrobial materials. A broad range of applications are addressed, from common to specialized applications, including many in the biomedical sector. This world-class collection of contributors write from a range of disciplinary backgrounds, providing important insights from textile science and technology, materials science, chemical engineering, and biomedical engineering. Advice and proposed solutions are presented in a rigorous and practical way, drawing on results and case studies obtained from academic and industrial laboratories worldwide. Examines how natural fibres can be used in the place of less renewable or sustainable choices, thus helping designers improve the sustainability of their products Provides unique coverage of the biofunctionality of biopolymers in textiles Explains how antimicrobial properties can reduce odour, extend the life of textiles, and provide numerous medical benefits

Textiles have been historically and traditionally used to make clothes, but even in ancient times there were technical textiles for making sails, tents, etc. Today, technical textiles are used in various industries for a host of purposes and applications. Recently, there have been exciting developments on various fronts in the textile field to impart novel and innovative functionalities to textiles, e.g., easy-to-clean or dirt-repellent, flame retardancy, anti-bacterial, and fog-harvesting properties, to name a few. Also, textiles for electronics based on graphene, CNTs and other nanomaterials, conductive textiles, textiles for sensor function, textile-fixed catalysts, textiles for batteries and energy storage, textiles as substrates for tissue engineering, and textiles for O/W separation have appeared in the literature. All this has been possible through adopting novel ways for finishing textiles, e.g., by appropriate surface modification techniques, and utilizing biomimetic concepts borrowed from nature. This unique book entitled “Textile Finishing: Recent Developments and Future Trends” is divided into four parts: Part 1: Recent Developments/Current Challenges in Textile Finishing; Part 2: Surface Modification Techniques for Textiles; Part 3: Innovative Functionalities of Textiles; Part 4: Fiber-Reinforced Composites. The topics covered include: Antimicrobial textile finishes; flame retardant textile finishing; “self-cleaning” or easy-to-clean textiles; metallization of textiles; atmospheric pressure plasma, and uv-based photochemical surface modification of textiles; tunable wettability of textiles; 3D textile structures for fog harvesting; textile-fixed catalysts; medical textiles as substrates for tissue engineering; and fiber-reinforced “green” or “greener” biocomposites and the relevance of fiber/matrix adhesion.

Versatility, extended compositional ranges, better homogeneity, lesser energy consumption, and requirement of nonexpensive equipments have boosted the use of sol-gel process on top of the popularity in the synthesis of nanosystems. The sol-gel technique has not only revolutionized oxide ceramics industry and/or material science but has also extended widely into multidimensional applications. The book Recent Applications in Sol-Gel Synthesis comprises 14 chapters that deal mainly with the application-oriented aspects of the technique. Sol-gel prepared metal oxide (MO) nanostructures like nanospheres, nanorods, nanoflakes, nanotubes, and nanoribbons have been employed in biomedical applications involving drug deliveries, mimicking of natural bone, and antimicrobial activities. The possibility of controlling grain size in aerogel and preparation of ultrahigh-temperature ceramic (UHTC)-based materials, fluorescent glasses, ultraviolet photosensors, and photocatalysts have been discussed in detail by the experts in the field. The usefulness of sol-gel materials as active GRIN, as textile finisher, and as leather modifier with water-repellent and oil-resistive properties would be an incentive for researchers keen to pursue the field.

This book covers the elements involved in achieving sustainability in the textiles and clothing sector. The chapters covered in different volumes of this series title aim to cover all the distinctive areas earmarked for achieving sustainable development in the textile and clothing industry. This first volume is dedicated to the initial phases of life cycle, i.e. raw materials and manufacturing phases of textile products. This book aims to cover the sustainable raw materials, technologies and processing methods to achieve sustainable textile products. There are plenty of raw materials available today to cater the needs of sustainable textiles and apparels including organic materials, recycled and biodegradable raw materials for textile applications. Similarly, many innovative methods to process textile materials to achieve sustainability in the supply chain along with various processing technologies to manufacture textile products sustainably. This first volume covers the titles of these areas in a comprehensive way.

The surface of textiles offers an important platform for functional modifications in order to meet special requirements for a variety of applications. The surface modification of textiles may be achieved by various techniques ranging from traditional solution treatment to biological approaches. This book reviews fundamental issues relating to textile surfaces and their characterisation and explores the exciting opportunities for surface modification of a range of different textiles. Introductory chapters review some important surface modification techniques employed for improved functional behaviour of textiles and the various surface characterisation methods available. Further chapters examine the different types of surface modification suitable for textiles, ranging from the use of plasma treatments and physical vapour deposition to the use of nanoparticles. Concluding chapters discuss surface modification strategies for various applications of textiles. Surface modification of textiles is a valuable resource for chemists, surface scientists, textile technologists, fibre scientists, textile engineers and textile students. Reviews fundamental issues relating to textiles surfaces and their characterisation Examines various types of surface modification suitable for textiles, including plasma treatments and nanoparticles Discusses surface modification strategies for textile applications such as expansion into technical textile applications

Green Chemistry for Sustainable Textiles: Modern Design and Approaches provides a comprehensive survey of the latest methods in green chemistry for the reduction of the textile industry's environmental impact. In recent years industrial R&D has been exploring more sustainable chemicals as well as eco-friendly technologies in the textile wet processing chain, leading to a range of new techniques for sustainable textile manufacture. This book discusses and explores basic principles of green chemistry and their implementation along with other aspects of cleaner production strategies, as well as new and emerging textile technologies, providing a comprehensive reference for readers at all levels. Potential benefits to industry from the techniques covered in this book include: Savings in water, energy and chemical consumption, waste minimization as well as disposal cost reduction, and production of high added value sustainable textile products to satisfy consumer demands for comfort, safety, aesthetic, and multi-functional performance properties. Innovative emerging methods are covered as well as popular current technologies, creating a comprehensive reference that facilitates comparisons between methods Evaluates the fundamental green chemistry principles as drivers for textile sustainability Explains how and why to use renewable green chemicals in the textile wet processing chain

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