

# Hydrophobic Materials And Coatings

**Yadunandan Lal Dar, Joseph M. Light**

**Superhydrophobic Coating - Recent Advances in Theory and Applications** Junfei Ou, 2024-02-07 Bio-inspired superhydrophobic coatings exhibit exceptional nonwetting properties, characterized by a large contact angle and minimal contact angle hysteresis. As a result, they have generated significant interest across diverse fields. This book explores advancements in superhydrophobic coatings, including their fabrication and application. It specifically addresses environmentally friendly chemicals for fabricating superhydrophobic coatings. Moreover, it delves into the application of superhydrophobic coatings in various scenarios, including anti-icing, anti-biofouling, and gas-liquid separation. By addressing these topics, the book offers a comprehensive overview of the historical background and progress made in the realm of superhydrophobic coatings. Furthermore, it serves as a rallying call to scientists worldwide, urging collaborative efforts to overcome development barriers and explore new application domains for the lotus-inspired superhydrophobic coating.

**Advances in Superhydrophobic Coatings** Viswanathan S. Saji, 2023-09-08 Superhydrophobic coatings have attracted substantial scientific research in recent years due to their real-world applications in a variety of fields including anti-corrosion, anti-icing, anti-fogging, oil separation and self-cleaning materials. Several approaches and methods have been used in developing superhydrophobic coatings on different substrates. This book guides readers through their fabrication and application, representing the latest significant advances in this important topic. Split into four sections, Part One concentrates on the fundamental principles of surface wettability and superhydrophobicity, before moving into Part Two and Part Three, which focus on different aspects of superhydrophobic coatings based on the materials used for fabrication and the substrate on which the coating is applied. Finally, Part Four focuses on the applications of these coatings. This book will serve as a valuable reference for graduate students, researchers and industrial practitioners in multiple industries working on surface wettability, materials chemistry and coatings related technologies.

**Superhydrophobic Coatings for Corrosion and Tribology** Shunca Wang, Guochen Zhao, 2019-12-05 Superhydrophobic surfaces, with a water contact angle  $>150^\circ$ , have attracted both academic and industrial interest due to their wide range of applications, such as water proofing, anti-fogging, antifouling, anti-icing, fluidic drag reduction and anti-corrosion. Currently the majority of superhydrophobic coatings are created using organic chemicals with low surface energy.

However, the lack of mechanical strength and heat resistance prevents the use of these coatings in harsh environments. Quality superhydrophobic coatings developed using inorganic materials are therefore highly sought after. Ceramics are of particular interest due to their high mechanical strength, heat and corrosion resistance. Such superhydrophobic coatings have recently been successfully fabricated using a variety of ceramics and different approaches, and have shown the improved wear and tribocorrosion resistance properties. This Special Issue will focus on the recent developments in the fabrication of superhydrophobic coatings and their robustness against corrosion and wear resistance, but the original work on other properties of superhydrophobic coatings are also welcome. In particular, the topics of interest include, but are not limited to: - Robust superhydrophobic coatings; - Coatings with super-wettability in multifunctional applications; - Wetting effects on corrosion and tribology; - Hierarchical Coating for wetting and modelling

*Polymer-Based Nanoscale Materials for Surface Coatings* Sabu Thomas, Jesiya Susan George, 2023-05-10 *Polymer-Based Nanoscale Materials for Surface Coatings* presents the latest advances and emerging technologies in polymer-based nanomaterials for coatings, focusing on novel materials, characterization techniques, and cutting-edge applications. Sections present the fundamentals of surface preparation and nanocoatings, linking materials and properties, explaining the correlation between morphology, surface phenomena, and surface protection mechanism, and covering theory, modeling and simulation. Other presented topics cover characterization methods, with an emphasis on the latest developments in techniques and approaches. Aging and lifecycle assessment of coated surfaces and coatings are also discussed. Final sections explore advanced applications across a range of fields, including intelligent coatings for biomedical implants, self-healing coatings, super-hydrophobicity, electroluminescence, sustainable edible coatings, marine antifouling, corrosion resistance, and photocatalytic coatings. - Explains the fundamentals of coatings and surface protection, mechanisms, materials and properties, and modeling and simulation - Presents detailed information on the latest characterization techniques to prepare nanoscale polymer coatings with enhanced properties - Explores a broad range of state-of-the-art applications and considers aging and lifecycle assessments of coatings

*Superhydrophobic Polymer Coatings* Sushanta Samal, Smita Mohanty, Sanjay Kumar Nayak, 2019-08-21 *Superhydrophobic Polymer Coatings: Fundamentals, Design, Fabrication, and Applications* offers a comprehensive overview of the preparation and applications of polymer coatings with superhydrophobicity, guiding the reader through advanced techniques and scientific principles. Sections present detailed information on the fundamental theories and methods behind the preparation of superhydrophobic polymer coatings and demonstrate the current and potential applications of these materials, covering a range of novel and marketable uses across industry, including coatings with properties such as foul resistance and self-cleaning, anti-icing and ice-release, corrosion inhibition, antibacterial, anti-reflection, slip and drag reduction, oil-water separation, and advanced medical applications. This book is a highly valuable resource for academic researchers, scientists

and advanced students working on polymer coatings or polymer surface modifications, as well as professionals across polymer science, polymer chemistry, plastics engineering, and materials science. The detailed information in this book will also be of great interest to scientists, R&D professionals, product designers and engineers who are looking to develop products with superhydrophobic coatings. - Presents in-depth information on the advanced methods required in the preparation of superhydrophobic polymer coatings - Covers the latest advances in the design of polymer coatings with superhydrophobic properties, including nanofabrication - Explains cutting-edge industrial and medical applications, including self-cleaning coatings, corrosion inhibition, anti-icing and ice-release, and oil-water separation

**Hydrophobic and Superhydrophobic Organic-Inorganic Nano-Hybrids** Chang-Sik Ha, Saravanan

Nagappan, 2018-03-22 In materials chemistry, hybrid systems have become popular because of their enhanced properties compared to their individual components. Organic-inorganic hybrid materials have dual, enhanced chemical, thermal, and mechanical properties of both organic and inorganic materials in a single material and are used in various applications. An enhanced hybrid material has many technical advantages compared to single organic or inorganic materials. These technical advantages and the applications of organic-inorganic hybrid materials have been covered by several scientific papers, reviews, and books. This book, however, exclusively covers hydrophobic and superhydrophobic surfaces based on organic-inorganic nanohybrids, their synthesis and fabrication, and their recent and potential applications in various fields. The book is a good reference for understanding the surface properties of organic-inorganic nanohybrids and also a valuable guide for college/high school, undergraduate, and graduate students and scientists with a background in chemistry, chemical engineering, materials science and engineering, nanotechnology, surface science and engineering, or industrial coatings.

**Protective Material Coatings For Preserving Cultural Heritage Monuments and Artwork** Amir Ershad-

Langroudi, 2022-04-12 Long-standing artworks and monuments show the wisdom and cultural identity of an ancient society along with the educational, material and spiritual merits of the people of that time. However, many historical artifacts and cultural monuments have been eroded over time and are in danger of deterioration beyond repair. There is a need to protect and conserve these artifacts. Restoration and preservation requires a multidisciplinary understanding of the inherent properties of these works based on the type of material and sufficient information in the properties of protective and conservation materials and research methods. Protective Material Coatings For Preserving Cultural Heritage Monuments and Artwork aims to familiarize students with the recent practices in conservation and restoration science in recent years by presenting a modern orientation on the subject focused on material coatings. Readers will be able to understand the properties of different materials in antique objects and how to adopt appropriate treatment methods based on these properties. This book consists of 5 chapters. In the first chapter, materials analysis techniques are described for historical monuments along with coatings used to preserve them. The second chapter introduces the properties of metals, alloys, and

their common corrosion and explains protection strategies for metal monuments. An emphasis is given to nanocomposite coatings to prevent decay, especially through electrochemical corrosion. Chapter 3 is devoted to studying natural leather and parchments and their conservation from damage by environmental factors such as UV radiation, temperature, and humidity. The fourth chapter deals with stone works, which are in many historical objects. Chapter 5 introduces the reader to additional preservation materials and innovative methods employed to protect historical monuments and cultural heritage sites. Information about the removal of materials, cleaning of improper prior repairs is also given. Protective Material Coatings For Preserving Cultural Heritage Monuments and Artwork is an ideal book for students of archeology, architecture, materials science and contemporary arts courses who are required to learn about the techniques of preserving antique buildings and works of art. It also serves as a handy reference for professionals and general readers interested in the curation of museums and the conservation of buildings, and cultural heritage sites.

Superhydrophobic Surfaces Alain Carre,Kash L. Mittal,2009-04-24 Superhydrophobic surfaces (water contact angles higher than 150°) can only be achieved by a combination of hydrophobicity (low surface energy materials) with appropriate surface texture. In nature one can find an array of impressive and elegant examples of superhydrophobic surfaces. For example, on a lotus leaf rain drops bounce off after impact,

#### **Innovative Materials for Next-Generation Defense Applications: Cost, Performance, and Mass Production**

Güler, Onur,Çelebi, Müslim,Karabacak, Abdullah Hasan,2025-06-04 In the evolving landscape of global defense, the demand for innovative materials that deliver superior performance, cost-efficiency, and scalability is pressing. Next-generation defense applications rely heavily on cutting-edge materials that offer a strategic edge. These materials must meet the requirements for strength, durability, thermal stability, and weight reduction while also being feasible for large-scale production and integration. Balancing performance with cost-effectiveness and manufacturability presents a critical challenge, driving research into composites, nanomaterials, and manufacturing techniques. This exploration of emerging materials may redefine the future capabilities of defense systems. Innovative Materials for Next-Generation Defense Applications: Cost, Performance, and Mass Production explores advanced materials designed for modern defense technologies. It examines the properties required for these materials to meet the rigorous demands of defense applications, including high strength, corrosion resistance, wear resistance, thermal stability, and lightweight construction. This book covers topics such as material science, mass production, and biotechnology, and is a useful resource for business owners, engineers, biotechnologists, academicians, researchers, and material scientists.

Advances in Superhydrophobic Coatings Viswanathan S Saji,2023-09-08 Superhydrophobic coatings have attracted substantial scientific research in recent years due to their real-world applications in a variety of fields including anti-corrosion, anti-icing, anti-fogging, oil separation and self-cleaning materials. Several approaches and methods have been

used in developing superhydrophobic coatings on different substrates. This book guides readers through their fabrication and application, representing the latest significant advances in this important topic. Split into four sections, Part One concentrates on the fundamental principles of surface wettability and superhydrophobicity, before moving into Part Two and Part Three, which focus on different aspects of superhydrophobic coatings based on the materials used for fabrication and the substrate on which the coating is applied. Finally, Part Four focuses on the applications of these coatings. This book will serve as a valuable reference for graduate students, researchers and industrial practitioners in multiple industries working on surface wettability, materials chemistry and coatings related technologies.

*Carbon Fluorides* Wei Feng, 2025-02-01 This book offers a comprehensive perspective on carbon fluorides, covering detailed descriptions of the structure, properties, preparation, and applications of carbon fluorides, from basic knowledge to the latest research developments. It provides readers with a clear and in-depth analysis of carbon fluorides. This book first describes the structural properties of carbon fluorides, such as the formation of different types of C-F bonds, F/C ratio, and the impact of F atom distribution on material properties. The introduction of F atoms results in unique properties of carbon fluorides in terms of optics, electronics, thermal properties, and mechanical strength, distinguishing them from carbon materials. This book also introduces various carbon fluoride materials prepared from various carbon material precursors currently under research, such as fluorinated graphene, fluorinated carbon nanotubes, fluorinated graphite, and fluorinated fullerenes. The detailed description of the research and applications of carbon fluorides in batteries and other areas is provided. This book is suitable for professionals and academic researchers and also serves as a self-study reference for beginners interested in this field. The author of this book has over a decade of experience and expertise in carbon fluorides research, providing readers with a rich and comprehensive book in this field.

**Polymers Coatings** Inamuddin, Rajender Boddula, Mohd Imran Ahamed, Abdullah M. Asiri, 2020-05-27 This explores the cutting-edge technology of polymer coatings. It discusses fundamentals, fabrication strategies, characterization techniques, and allied applications in fields such as corrosion, food, pharmaceutical, biomedical systems and electronics. It also discusses a few new innovative self-healing, antimicrobial and superhydrophobic polymer coatings. Current industrial applications and possible potential activities are also discussed.

**Smart Polymers** Asit Baran Samui, 2022-04-26 Smart materials have been produced by conceiving of the idea of materials/systems having a fourth dimension. To match advances in instrumentation, efforts are being made to develop materials, resulting in smart materials with enhanced performance. In nature, the action of stimuli-responsive materials is reversible; this idea has attracted interest for its potential research and industrial applications. The challenge remains how to couple these applications with environmental consciousness. This book presents the basics of smart polymers and describes their current and future applications. This book is different from other books on the subject in that it explores polymer

materials' smart behavior in more depth, covering vibration damping, thermal and electrochemical energy, sensing at trace level, biotechnology, and so on. The 14 chapters in this book cover diverse areas, including: • Photoresponsive polymers that can be manipulated using a specific frequency of light • Designing polymers for vibration damping • Smart manipulations of hydrophobic and super-hydrophobic polymers • Biopolymers, including hydrogels for smart application, drug delivery, and other uses • Smart paints • Self-healing and shape memory polymers • Holography for data storage • Phase change polymers and solid polymer electrolytes for thermal and electrochemical energy • Molecular imprinting polymers for sub-ppm sensing and removal of unwanted materials • Smart textiles, and the concept of advanced textiles This book will be of particular interest to researchers, postgraduates, and industry experts. It offers an extensive introduction to the basics of smart polymers and their possible applications.

*Cereals: Novel Uses and Processes* Grant M. Campbell, Colin Webb, Stephen L. McKee, 1997-03-31 So long as a person is capable of self renewal they are a living being. -Amiel Cereals have been the source of life to the human race, providing nutritional and material needs since the dawn of civilization. As with all dynamic industries, the Cereal industry has renewed itself in the past; as the millennium approaches, it is on the brink of another renewal, in which the versatility and providence of cereals are being rediscovered, but in new and exciting ways. Cereals are richly diverse; over 10,000 varieties convert minerals and the energy of the sun into a bursting catalog of functional and versatile biomolecules and biopolymers. Processing technology allows these components to be accessed, separated, isolated and purified, while chemical science allows modification for even greater diversity and specificity. The last century has seen the move from cereal- to oil-based chemical and materials industries. But cereals contain a greater variety and functionality of macromolecules than oil. Starch, protein, bran and straw, already diverse across cereal varieties, can be fractionated into more specific elements, modified chemically to enhance function, or used as feedstocks in fermentation-based bioconversion systems, to produce a range of bulk and fine chemicals for industries as diverse as food, pharmaceuticals, plastics, textiles, pulp and paper, transport, composites and boards, adhesives and energy.

**Advances In Smart Coatings And Thin Films For Future Industrial and Biomedical Engineering Applications** Abdel Salam Hamdy Makhlouf, Nedal Yusuf Abu-Thabit, 2019-10-25 *Advances In Smart Coatings And Thin Films For Future Industrial and Biomedical Engineering Applications* discusses in detail, the recent trends in designing, fabricating and manufacturing of smart coatings and thin films for future high-tech. industrial applications related to transportation, aerospace and biomedical engineering. Chapters cover fundamental aspects and diverse approaches used to fabricate smart self-healing anti-corrosion coatings, shape-memory coatings, polymeric and nano-bio-ceramic coatings, bio-inspired and stimuli-responsive coatings for smart surfaces with antibacterial activity and controlled wettability, and electrically conductive coatings and their emerging applications. With the emphasis on advanced methodologies and recent emerging

applications of smart multifunctional coatings and thin films, this book is essential reading for materials scientists and researchers working in chemical sciences, advanced materials, sensors, pharmaceutical and biomedical engineering. - Discusses the most recent advances and innovations in smart multifunctional coatings and thin films in the transportation, aerospace and biomedical engineering industries - Highlights the synthesis methods, processing, testing and characterization of smart coatings and thin films - Reviews the current prospects and future trends within the industry

*Tailored Thin Coatings for Corrosion Inhibition Using a Molecular Approach* Simo Olavi Pehkonen, Shaojun Yuan, 2018-08-25 Tailored Thin Coatings for Corrosion Inhibition Using a Molecular Approach discusses the fundamentals and applications of various thin coatings for the inhibition of fouling and corrosion from a molecular perspective. It provides the reader with a fundamental understanding of why certain coatings perform better than others in a given environment. Surface analytical and electrochemical techniques in understanding the coating performance are emphasized throughout the book, providing readers with a useful reference on how to pursue a systematic corrosion inhibitor R&D program that involves the testing of coating performance using various, currently available, state-of-the-art laboratory techniques. Wherever relevant, environmental considerations of the discussed coatings' technologies are highlighted and discussed, with current and upcoming regulatory trends put forth by different governmental organizations. - Provides atomic and molecular level understanding of tailored thin coatings for corrosion inhibition - Discusses key steps in corrosion, including the attachment of harmful substances to surfaces, the fouling of surfaces, and the initiation and propagation of corrosion on surfaces - Written by leading experts in the field

**Thermal Processing of Food Products by Steam and Hot Water** Seid Mahdi Jafari, 2022-11-10 Thermal Processing of Food Products by Steam and Hot Water, a volume in the Unit Operations and Processing Equipment in the Food Industry series, explains the processing operations and equipment necessary for the thermal processing of different food products by applying steam and hot water. Sections cover an overview of thermal food processing, heat exchangers in the food processing industry, different thermal processing operations in the food industry, and applications of heat exchanges. All sections emphasize basic texts relating to experimental, theoretical, computational and/or the applications of food engineering principles and relevant processing equipment. Written by experts in the field of food engineering, in a simple and dynamic way, this book targets industrial engineers working in the field of food processing and within food factories to make them more familiar with the particular food processing operations and equipment. - Thoroughly explores novel applications of thermal unit operations in the food industry - Evaluates different alternatives for thermal processing operations - Covers the application of heat exchangers in the food industry

**Food Texture Design and Optimization** Yadunandan Lal Dar, Joseph M. Light, 2014-04-07 Food texture has evolved to be at the forefront of food formulation and development. Food Texture Design and Optimization presents the latest insights

in food texture derived from advances in formulation science as well as sensory and instrumental measurement. This unique volume provides practical insights for professionals who are starting in the field as well as experts looking to enhance their knowledge or expand into new areas. The first part of this book presents case studies on formulating products in a broad variety of application segments, such as cheese, ice-cream, baked goods, gluten-free products, low-fat/non-fat dairy products and more. Challenges related to maintaining texture while optimizing nutritional content, cost, flavor and other attributes of the food product are investigated. The book also highlights the importance of texture design and optimization in several types of food products and demonstrates how experts have applied this knowledge in the industry. Part two provides an overview of the latest advances in tools and techniques for food texture design and optimization, focusing on the use of instrumental techniques, the application of sensory techniques, and the use of marketing and consumer insight tools in the design and optimization of food products. The ability to use advanced characterization techniques in this field is critical for both new and established practitioners in tackling the problems they face. Food Texture Design and Optimization serves as an important reference for technical practitioners on how to adopt advanced techniques in food texture research. This information is invaluable in reviewing establish the state of the art in this field and providing a minimum recommended standard for food formulators.

**Functional Coatings** Raj K. Arya, George D. Verros, J. Paulo Davim, 2024-02-12 FUNCTIONAL COATINGS A must-own resource for understanding functional coatings and their revolutionary potential Functional coatings are those which provide not only the protection and performance enhancement of a conventional coating, but also offer additional properties tailored to meet the specific requirements of a given industry or application. They have applications in a huge range of sectors, including automotive, aerospace, healthcare, energy, and more. Coatings with properties like fire retardancy, antimicrobial properties, or controlled drug release have the potential to revolutionize entire industries. Functional Coatings offers a comprehensive resource for engineers and researchers looking to understand these coatings and the opportunities they provide. Beginning with an overview of the subject's foundations and industrial significance, the book analyzes numerous coating methods and their properties, with a particular focus on anticorrosion coatings. The result is an indispensable resource for professionals in virtually any technological industry looking to understand the benefits of a cutting-edge toolkit. Functional Coatings readers will also find: Coverage of synthesis, durability, reproducibility, cost-effectiveness, specialized surface morphology, and environmental friendliness of each coating Detailed discussion of antimicrobial coatings, fire-retardant coatings, self-healing coatings, nanopowder coatings, coatings for marine applications, and many more Applications of additives, machine learning, and sophisticated characterizations, etc. as per industry requirements Functional Coatings is ideal for researchers, engineers, and industry professionals working with any area of technology where coatings have purchase.



*Self-Cleaning Materials and Surfaces* Walid A. Daoud, 2013-07-12 With increasing demand for hygienic, self-disinfecting and contamination free surfaces, interest in developing self-cleaning protective materials and surfaces has grown rapidly in recent times. This new title comprises of invited chapters from renowned researchers in the area of self-cleaning nano-coatings and the result is a comprehensive review of current research on both hydrophobic and hydrophilic (photocatalytic effect) self-cleaning materials.

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## Hydrophobic Materials And Coatings Introduction

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