

INTERFACE SCIENCE AND TECHNOLOGY

Interface Science and Composites

Soo-Jin Park
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Interface Science And Composites Volume 18 Interface Science And Technology

Simo Olavi Pehkonen, Shaojun Yuan



Interface Science And Composites Volume 18 Interface Science And Technology:

Interface Science and Composites Soo-Jin Park, Min-Kang Seo, 2011-07-18 The goal of Interface Science and Composites is to facilitate the manufacture of technological materials with optimized properties on the basis of a comprehensive understanding of the molecular structure of interfaces and their resulting influence on composite materials processes From the early development of composites of various natures the optimization of the interface has been of major importance While there are many reference books available on composites few deal specifically with the science and mechanics of the interface of materials and composites Further many recent advances in composite interfaces are scattered across the literature and are here assembled in a readily accessible form bringing together recent developments in the field both from the materials science and mechanics perspective in a single convenient volume The central theme of the book is tailoring the interface science of composites to optimize the basic physical principles rather than on the use of materials and the mechanical performance and structural integrity of composites with enhanced strength stiffness and fracture toughness or specific fracture resistance It also deals mainly with interfaces in advanced composites made from high performance fibers such as glass carbon aramid and some inorganic fibers and matrix materials encompassing polymers carbon metals alloys and ceramics Includes chapter on the development of a nanolevel dispersion of graphene particles in a polymer matrix Focus on tailoring the interface science of composites to optimize the basic physical principles Covers mainly interfaces in advanced composites made from high performance fibers

Advanced Low-Cost Separation Techniques in Interface Science George Z. Kyzas, Athanasios C. Mitropoulos, 2019-08-24 Advanced Low Cost Separation Techniques in Interface Science Volume 30 helps scientists and researchers in academia and industry gain expert knowledge on how to use separation techniques at minimal cost and energy usage It handles a broad range of highly relevant topics including modern flotation techniques low cost materials in liquid and gas phase adsorption new trends in molecular imprinting graphenes in separation nanobubbles and biopolymers in interface science the reuse of biomaterials green techniques for wastewaters and modeling in environmental interfaces The book shows that these techniques can be both attractive for both research and industrial purposes It is intended for chemical engineers working in wastewater treatment industries membrane industries pharmaceutical industries textile or tanneries industries hybrid topic industries and energy industries Focuses on cost and energy saving separation techniques in interface science Discusses multiple techniques including flotation adsorption materials synthesis and more Combines in a single source separation techniques advanced methodologies and the low cost potential of the techniques Describes techniques that are attractive for both research and industrial purposes

Surface Science of Photocatalysis Jiaguo Yu, Mietek Jaroniec, Chuanjia Jiang, 2020-03-28 Surface Science of Photocatalysis Volume 32 summarizes significant findings on the surface science behind various classic and novel photocatalysts for energy and environmental applications with special emphasis on important surface interface processes in photocatalysis such as

interfacial charge transfer function of co catalysts and adsorption over photocatalyst surface This book timely and systematically reviews the state of the art of the surface science in semiconductor based photocatalysis serving as a useful reference book for both new and experienced researchers in this field Provides timely reviews on cutting edge research on surface science and photocatalysts Comprehensively discusses novel photocatalysts such as metal oxides metal sulphides graphitic carbon nitrides graphene and metal organics Presents important surface interface processes in photocatalysis like Z scheme system and surface heterojunctions Investigates the function of co catalysts and the adsorption on photocatalyst surfaces Edited by world leading researchers in interface science

Photocatalysis: Fundamental Processes and Applications Mehrorang Ghaedi, 2021-03-19 Photocatalysis Fundamental Processes and Applications Volume 32 in the Interface Science and Technology Series discusses the fundamental aspects of photocatalysis and its process and applications to the decontamination of wastewater hydrogen production via water splitting and photo reduction of carbon dioxide to hydrocarbon The book discusses the fundamental aspects of all applications together with their proper mechanisms thus providing essential information for deep research in the area of clean environment and green energy production Provides background on the fundamental and experimental processes of photocatalysis Covers photocatalysis and its impact on creating a clean environment and energy sources Applies photocatalysis to the decontamination of wastewater hydrogen production via water splitting and photo reduction of carbon dioxide to hydrocarbon Edited by a world leading researcher in interface science

Adsorption: Fundamental Processes and Applications Mehrorang Ghaedi, 2021-03-19 Adsorption Fundamental Processes and Applications Volume 33 in the Interface Science and Technology Series discusses the great technological importance of adsorption and describes how adsorbents are used on a large scale as desiccants catalysts catalyst supports in the separation of gases the purification of liquids pollution control and in respiratory protection Finally it explores how adsorption phenomena play a vital role in many solid state reactions and biological mechanisms as well as stressing the importance of the widespread use of adsorption techniques in the characterization of surface properties and the texture of fine powders Covers the fundamental aspects of adsorption process engineering Reviews the environmental impact of key aquatic pollutants Discusses and analyzes the importance of adsorption processes for water treatment Highlights opportunity areas for adsorption process intensification Edited by a world leading researcher in interface science

Thermal Energy Storage Composites Giulia Fredi, 2025-04-21 Thermal energy storage TES technologies are currently employed to store waste excess heat that can be released when and where needed thereby filling the gap between energy demand and availability Among the most widely used materials for TES are organic phase change materials PCMs such as paraffins poly ethylene glycol s and fatty acids and alcohols which absorb a large amount of latent heat at a nearly constant temperature and are thus suitable to keep the temperature in a specific range or under certain threshold useful for example in the thermal management TM of electronic devices The incorporation of these organic PCMs in polymer composites results

in multifunctional materials suitable in those applications requiring high specific mechanical properties and heat management e.g. electric vehicles. Although the PCMs generally decrease the mechanical properties of the host structural composites, such multifunctional composite can still be beneficial in terms of mass saving compared to two monofunctional units performing the structural and heat management functions individually. This book briefly introduces the concept of TES and PCMs with a special focus on organic solid liquid PCMs, their confinement methods and their TM applications at low medium temperatures 0 °C–100 °C. It then investigates the approach of embedding TES and TM functionalities in structural materials through the development of multifunctional polymer composites that could find applications where weight saving and temperature management are equally important. The concept of structural TES composite will be presented through the description of some case studies.

Theory of Electrophoresis and Diffusiophoresis of Highly Charged Colloidal Particles
Eric Lee, 2018-11-30
Theory of Electrophoresis and Diffusiophoresis of Highly Charged Colloidal Particles discusses the electrophoretic and diffusiophoretic motions of various colloidal entities such as rigid particles, liquid droplets, gas bubbles and porous particles, focusing on the motion deterring double layer polarization effect pertinent to highly charged particles with the lowly charged ones serving as the limiting cases. Boundary effects such as those from a cylindrical pore, a solid plane or an air-water interface are analyzed as well for the electrophoretic motion of the various particles considered. Dynamic electrophoresis is also explored and treated. The contents are suitable for researchers, graduate students or senior college students with some basic background of colloid science and transport phenomena. As there is no closed form analytical formula in general for the situation of highly charged particles, the results are presented with extensive figures and plots as well as tables under various electrokinetic situations of interest to facilitate the possible use of interested readers. Provides a reliable quantitative prediction of highly charged particles motion with easy to apply charts and in depth understanding of the underlying mechanisms. Offers an extensive treatment of direct quantitative predication for non rigid systems such as porous particles, liquid drops and gels which is especially valuable in proteins and DNA research. Discusses highly charged systems with a nearby boundary of practical interests such as a pore, a solid plane or an air-water interface which is of vital interest in fields such as microfluidic operations and biomedical engineering. Affords special attention to the polarization effect.

An Introduction to Green Nanotechnology
Mahmoud Nasrollahzadeh, Mohammad S. Sajadi, Monireh Atarod, Mohaddeseh Sajjadi, Zahra Isaabadi, 2019-02-19
An Introduction to Green Nanotechnology Volume 28 provides students, scientists and chemical engineers with an overview of several types of nanostructures, discusses the synthesis and characterization of nanostructures and provides applications of nanotechnology in daily life. The book offers a foundation to green nanotechnology by explaining why green nanotechnology is important. Covers biological sources in green nanotechnology, antioxidants, green nanostructures, mechanism, synthesis and characterization. The book ends with an evaluation of the risks of nanotechnology in human life and future perspectives. Introduces novel sources of plants having a

high potential to be used as bio media to synthesize nanostructures Provides phytochemical properties and antioxidant potential and their effects on stability morphology and size of green nanostructures Includes a medicinal and technological comparison of green synthesized nanostructures to nano products from non green methods Uses accessible language avoiding complex concepts of mathematics biology and chemistry

Graphene Surfaces Karim Kakaei, Mehdi D. Esrafil, Ali Ehsani, 2018-10-09 Graphene Surfaces Particles and Catalysts focuses on the surface chemistry and modification of graphene and its derivatives from a theoretical and electrochemical point of view It provides a comprehensive overview of their electronic structure synthesis properties and general applications in catalysis science including their relevance in alcohols and their derivatives oxidation oxygen reduction hydrogen evolution energy storage corrosion protection and supercapacitors The book also covers emerging research on graphene chemistry and its impact Chemical engineers materials scientists electrochemists and engineers will find information that will answer their most pressing questions on the surface aspects of graphene and its effect on catalysis Serves as a time saving reference for researchers graduated students and chemical engineers Equips the reader with catalysis knowledge for practical applications Discusses the physical and electrochemical properties of graphene Provides the most important applications of graphene in electrochemical systems Highlights both experimental and theoretical aspects of graphene

Particles at Interfaces Zbigniew Adamczyk, 2017-10-27 Particles and Interfaces Interaction Deposition Structure Volume 20 Second Edition unifies particle and protein adsorption phenomena by presenting recent developments in this growing field of nanoscience While experimental data is available in vast quantities there is a deficit in quality interpretation of that data This title provides such information emphasizing the basic physics behind practical problems thus empowering the reader to estimate relevant effects The book includes solved problems of particle transport under non linear conditions and their relevance to predicting protein adsorption including an entirely new chapter devoted to polyelectrolyte and protein adsorption at solid liquid and solid gas interfaces Unifies information from various fields such as electrostatics hydrodynamic colloid science and biophysics Presents information in a user friendly manner including computer aided graphics and schematic drawings Applies a phenomenological approach to the content and provides readily accessible reference data

Charge and Energy Storage in Electrical Double Layers Silvia Ahualli, Angel V. Delgado, 2018-11-28 Charge and Energy Storage in Electrical Double Layers presents the basic scientific concepts and implementation of procedures devised to obtain capacitive energy from changes in the potential of electrical double layers when the salinity of solutions is changed Capacitive deionization the closely connected reciprocal process is also considered The book covers the fundamentals of electrical double layers and ions transport in porous media the description of promising techniques of energy extraction and the practical problems involved in each It is written for scientists in academia and industry and for graduate students working in supercapacitors capacitive mixing and deionization Provides a didactic presentation of the fundamentals of interface science involved in charge and energy storage processes

Presents a pioneering overview of the application of the properties of solid solution interfaces to desalination and energy extraction Edited by leading specialists with vast experience in the theory and experimental characterization of charged interfaces **Synthesis, Processing and Application of Micro and Nanostructured Materials** Bogdan Stefan

Vasile,2020-12-14 The book is focused on nanostructured materials which have been well studied in various fields from life to materials sciences Nanostructured science has the potential to help make revolutionary discoveries based on modifying the properties of these materials compared with micro structured materials Nanostructured materials are the key to discovering new products based on new technologies This book is focused on presenting new state of the art methods for the synthesis and processing of nanostructured materials These materials can be used in both in life and materials science with applications from biomedical devices drug delivery systems medical imaging with multiferoic materials high energy batteries capacitors superconductors and aerospace components **Self-Assembly Processes at Interfaces** Vincent

Ball,2018-02-13 Self Assembly Processes at Interfaces Multiscale Phenomena provides the conceptual and unifying view of adsorption self assembly and grafting processes at solid liquid and liquid gas interfaces also describing experimental methods where applicable An invaluable resource for post graduate students looking to bridge the gap between acquiring the field s existing knowledge and the creation of new insights the book recalls fundamental concepts giving rigorous but first principle based calculations and exercises and showing how these concepts have been used in recent research articles Readers will find guidelines on how best to start research in the field of surface chemistry with biological macromolecules and molecules able to undergo self assembly process at interfaces in the presence of a liquid along with discussions on the very fundamental aspects and applications using concepts of biomimetic chemistry By highlighting the interdisciplinary aspects of the field of self assembly at interfaces the book is an ideal resource for chemical engineers chemists physicists and biologists In addition important equations are demonstrated on the basis of fundamental concepts and overly complex mathematical developments are avoided Presents an interdisciplinary work that is ideal for chemical engineers chemists physicists and biologists Provides a unifying view of the field from fundamentals to methods and applications Includes concepts applicable at both solid liquid and liquid gas interfaces **Stimuli Responsive Polymeric Membranes** Mihir Kumar

Purkait,Manish Kumar Sinha,Piyal Mondal,Randeep Singh,2018-09-11 Stimuli Responsive Polymeric Membranes Smart Polymeric Membranes explains the fundamentals and advances in topics relating to the field of membrane science It elaborately explains concepts relating to stimuli responsive membranes with special importance given down to minute details Material selection preparation characterization and applications of various stimuli responsive membranes are extensively addressed and their relevance including examples is included The book covers history and development merits and demerits mechanisms of transport and fouling applicability of membranes to various diverse areas and preparation and characterization techniques of membranes Next the concept of fouling and its remedial actions is discussed Finally promising

fields of research in the membrane science and future perspectives of membrane science field are explored Provides basic and advanced knowledge of smart membranes considering their morphological physicochemical and separation characteristics Written in a clear and lucid style keeping a diverse audience in mind Based on the state of art research of the authors *Rheology of Emulsions* Aleksandar M. M. Spasic, 2018-04-26 *Rheology of Emulsions* Volume 22

Electrohydrodynamics Principles studies phenomena at liquid liquid interfaces including finely dispersed particles or structures in particular emulsions double emulsions and biological cells The book considers the forces of electrical origin that participate in the physical events at liquid liquid interfaces taking into account electron transfer phenomenon and electrodynamics principles Topics covered are of interest to a broad range of scientists researchers and graduate students with a basic knowledge of physical chemistry electromagnetism fluid mechanics classical and quantum electrodynamics The implications and applications of the material presented in the book contribute to the advanced fundamental applied and engineering research of interfacial electroviscoelastic phenomena Features a multidisciplinary approach to electron transfer phenomena Introduces a new constitutive model of liquids and a theory of electroviscoelasticity Addresses a broad range of subject field examples that make it useful to various research communities *Nanoparticle Technologies* Farid Bensebaa, 2012-12-31 This book is a good introductory work to nanoparticle technology It consists of nine complementary chapters that can be read independently This book covers promising nanoparticles fabrication technologies with a focus on scalable processes Integration of nanoparticles into 2D and 3D structures are covered in detail The most promising applications of nanoparticles in the energy optoelectronic and biomedical sectors are summarized and discussed Current issues and challenges related to nanoparticles production and utilisation are also discussed in the book Complete and simple overview of the field Contains practical examples that makes the book also accessible for industrialists engineers and managers Chapters can be read relatively independently so experienced researchers can go directly to the them of interest Advantages drawbacks and challenges are described with practical examples *Emerging Natural and Tailored Nanomaterials for Radioactive Waste Treatment and Environmental Remediation* Changlun Chen, 2019-04-25 *Emerging Natural and Tailored Nanomaterials for Radioactive Waste Treatment and Environmental Remediation* Principles and Methodologies Volume 29 provides an overview of the most important radionuclide sources in the environment their interaction with environmental media and appropriate remediation techniques The book focuses on the assessment of radionuclide sorption behavior in contaminated sites and the synthesis of new materials for radionuclides remediation through sorption concepts Chapters investigate the main interaction mechanisms between toxic radioactive metal ions with natural and manmade materials natural clay minerals and oxides and novel nanomaterials such as ordered mesoporous silicas carbon nanotubes graphene and metal organic framework based materials Techniques and models discussed include kinetics analysis thermodynamic analysis surface complexation models spectroscopic techniques and theoretical calculations

Provides a systemic discussion on the interactions between toxic and radioactive metal ions and natural and manmade materials Helps to select the best approach to remove toxic radioactive metal ions from a surface Edited by a scientific authority in toxic radioactive metal ion interactions

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

ICCM-11 Proceedings CD-ROM Murray L. Scott, 1997-07-04

Protective Textiles from Natural Resources Md. Ibrahim H. Mondal, 2022-06-15 Protective Textiles from Natural Resources provides systematic coverage of the fundamentals production methods processing techniques characterization techniques properties and applications of natural textile products for protective purposes The subject of this book is an important kind of technical textile designed to protect the wearer from injuries illness and death They offer enhanced protection against phenomena including heat cold flame chemical biological nuclear agents radiation disaster and even ballistics As no single type of clothing can be adequate for all kinds of protection extensive research is carried out to develop protective clothing for specialized civilian and military applications The latest research on the use of natural fibres in PPE is also covered which could make a significant contribution to the fight against the spread of COVID 19 This comprehensive guide explores a wide variety of themes from material processing and design to finished products through protection against specific hazards to specific applications including all significant new developments on natural materials for protective textiles Explains the latest technologies related to fibre extraction from natural sources chemical treatments weave constructions fabric finishes and coatings Includes the latest research on natural fibers in personal protective equipment PPE to protect wearers from bacterial and viral contamination Explains the state of the art in testing methods and standards for protective clothing

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