
Journal Of Bionic Engineering

Human-Insect Interactions
 Advances in Nanotechnology Research and Application: 2011 Edition
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 Cell Surface Extensions—Advances in Research and Application: 2012 Edition
 Advances in Bionic Engineering
 Mathematics and Computer Science, Volume 2
 Advances in Serum Albumin Research and Application: 2013 Edition
 Biomimetics
 Connective Tissue Cells—Advances in Research and Application: 2012 Edition
 International Conference on Mechanism Science and Control Engineering (MSCE 2014)
 Current Scientific and Industrial Reality
 Leaf Optical Properties
 Styrenes—Advances in Research and Application: 2012 Edition
 Textile Materials for Lightweight Constructions
 Scleroproteins—Advances in Research and Application: 2012 Edition
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approach to the development of modern means of a wide range of industrial applications, the new solutions in the field of biomedical engineering and of pharmacological practice and also illuminates the results of the latest solutions in the field of development of biomaterials and their application. *Cell Surface Extensions—Advances in Research and Application: 2012 Edition* Trans Tech Publications Ltd

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Presents state-of-the-art research into leaf interactions with light, for scientists working in remote sensing, plant physiology, ecology and resource management.

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Scleroproteins—Advances in Research and Application: 2012 Edition John Wiley & Sons

This book presents a 360-degree picture of the world of insects and explores how their existence affects our lives: the "good, bad, and ugly" aspects of their interactions with humankind. It provides a lucid introductory text for beginning undergraduate students in the life sciences, particularly those pursuing beginner courses in entomology, agriculture, and botany.

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Ocean Innovation Advances in Bionic Engineering

The aim of MSCE 2014 is to provide a platform for researchers, engineers, and academicians, as well as industrial professionals, to present their research results and development activities in mechanism science and control engineering. It provides opportunities for the delegates to exchange new ideas and application experiences, to establish business or research relations and to find global partners for future collaboration. MSCE2014 is conducted to all the researchers, engineers, industrial professionals and academicians, who are broadly welcomed to present their latest research results, academic developments or theory practice. Topics of interest include but are not limited to Mechanism theory and Application, Mechanical control and Automation Engineering, Mechanical Dynamics, Materials Processing and Control, Instruments and Vibration Control. It is of great pleasure to see the delegates exchanging ideas and establishing sound relationships on the conference.

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Bio-mimicry is fundamental idea "How to mimic the Nature" by various methodologies as well as new ideas or suggestions on the creation of novel materials and functions. This book comprises seven sections on various perspectives of bio-mimicry in our life; Section 1 gives an overview of modeling of biomimetic materials; Section 2 presents a processing and design of biomaterials; Section 3 presents various aspects of design and application of biomimetic polymers and composites are discussed; Section 4 presents a general characterization of biomaterials; Section 5 proposes new examples for biomimetic systems; Section 6 summarizes chapters, concerning cells behavior through mimicry; Section 7 presents various applications of biomimetic materials are presented. Aimed at physicists, chemists and biologists interested in

biomineralization, biochemistry, kinetics, solution chemistry. This book is also relevant to engineers and doctors interested in research and construction of biomimetic systems.

Advances in Serum Albumin Research and Application: 2011 Edition ScholarlyEditions Through millions of years' natural selection, sharkskin has developed into a kind of drag-reducing surface. This book shows how to investigate, model, fabricate and apply sharkskin's unique surface properties, creating a flexible platform for surface and materials engineers and scientists to readily adopt or adapt for their own bio-inspired materials. Rather than inundate the reader with too many examples of materials inspired by nature, sharkskin has been chosen as the centerpiece to illustrate accurate 3D digital modeling of surfaces, complete numerical simulation of micro flow field, different fabrication methods, and application to natural gas pipelining. This is a must-read for any researcher or engineer involved in bio-inspired surfaces and materials studies. Contents: Self-Cleaning and Superhydrophobic Surfaces (G G Li, Y T Zhao, L Zhang, B D Liu, Y Luo, B Y Li, E Y K Ng) Treatments and Constructing Digital

Model of Biological Shark Skin/Shark (G G Li, Y T Zhao, L Zhang, Y Luo, E Y K Ng) Different Approaches to Manufacture Low Viscous Resistance Drag with Biomimetic Textures (J Wang, Y T Zhao, L Zhang, Y Luo, E Y K Ng) Different Characteristic Analysis of Drag-Reducing Surface with Biological Morphology (J Wang, Y T Zhao, L Zhang, Y Luo, E Y K Ng) Application of Biomimetic Shark Skin Surface in Natural Gas Pipelining (J Wang, Y T Zhao, L Zhang, Y Luo, E Y K Ng) Biomimetic Surfaces for Enhanced Dropwise Condensation Heat Transfer: Mimic Nature and Transcend Nature (Youmin Hou, Zuankai Wang, Shuhuai Yao) Large-Scale Fabrication of Biomimetic Drag-Reduction Surface via Bio-Replication of Shark Skin (Huawei Chen, Deyuan Zhang, Xin Zhang, Da Che) Study of Flow over Dimpled Cylinder for Drag Reduction (Tan S P, Koh J H and Ng Y K Eddie) Fluid Flow in Biomimetics Simulated Vessel Having a Grooved Surface: An Investigation of the Effect of Riblets in Drag Reduction (Guangming Hu) 3-D Modelling of Biological Systems for Biomimetics (Shujun Zhang, Donghui Chen, Kevin Hapeshi and Xu Zhang) Superhydrophobic Surfaces with

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