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The Innovators Using Nature's Design Principles to Create Green Tech.*See How Termites Inspired a Building That Can Cool Itself | Decoder* Lessons from Nature: Bioinspired Surfaces for Green Tech | Bharat Bhushan | TEDxOhioStateUniversity *Biomimetic Materials: Gecko Feet Adhesives* ~~12 sustainable design ideas from nature | Janine Benyus~~ Virtual International Conference on Bioinspired Design and Engineering, BIDE 2020 **ASC Science Sundays: Bharat Bhushan - Bio-inspired Surfaces for Green Science and Technology** *Biomimetics Bioinspired Hierarchical Structured Surfaces*

This book presents an overview of the general field of biomimetics and biologically inspired, hierarchically structured surfaces. It deals with various examples of biomimetics, which include surfaces with roughness-induced super-phobicity/philicity, self-cleaning, antifouling, low drag, low/high/reversible adhesion, drag reduction in fluid flow, reversible adhesion, surfaces with high hardness and mechanical toughness, vivid colors produced structurally without color pigments, self-healing, ...

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“ Biomimetics: Bioinspired Hierarchical-Structured Surfaces for Green Science and Technology presents researchers and students alike with an extensive array of hierarchical structures that exist in nature, with particular attention to structures with useful wetting properties. ⋯ the book is a nice introduction to biomimetics.

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Biomimetics Book Subtitle Bioinspired Hierarchical-Structured Surfaces for Green Science and Technology Authors. Bharat Bhushan; Series Title Biological and Medical Physics, Biomedical Engineering Copyright 2012 Publisher Springer-Verlag Berlin Heidelberg Copyright Holder Springer-Verlag Berlin Heidelberg eBook ISBN 978-3-642-25408-6 DOI 10.1007/978-3-642-25408-6

Biomimetics - Bioinspired Hierarchical-Structured Surfaces ...

Biomimetics: Bioinspired Hierarchical-Structured Surfaces for Green Science and Technology (Springer Series in Materials Science Book 279) eBook: Bharat Bhushan: Amazon.co.uk: Kindle Store

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This book presents an overview of the general field of biomimetics - lessons from nature. It presents various examples of biomimetics, including roughness-induced superomniphobic surfaces which provide functionality of commercial interest. The major focus in the book is on lotus effect, rose petal effect, shark skin effect, and gecko adhesion.

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revealed a complex hierarchical structure at the geckos ’ feet (fi gure 1). Van der Waals interactions generated by each of the contacting fi bers (spatulae) wereidenti fi edastheoriginofadhesion[1 – 4]. Inspired by the biological structures, researchers have created synthetic adhesive surfaces through a varietyoffabricationstrategies[5].Manypublications

Hierarchical bioinspired adhesive surfaces—a review

The emerging field of biomimetics allows one to mimic biology or nature to develop nanomaterials, nanodevices and processes which provide desirable properties. The biologically inspired materials and structured surfaces are being explored for various commercial applications. These should have minimum human impact on the environment, leading to eco-friendly or green science and technology.

Lessons from nature for green science and technology: an ...

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