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Biomimetics: Bioinspired Hierarchical-Structured Surfaces

Biomimetics: Bioinspired Hierarchical-Structured Surfaces for Green Science and Technology Mohan Srinivasarao is a professor of materials science and engineering, chemistry, and biochemistry at Georgia Tech.

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â€œBiomimetics: 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. â€ the book is a nice introduction to biomimetics.

Biomimetics - Bioinspired Hierarchical-Structured Surfaces

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.

Biomimetics - Bioinspired Hierarchical-Structured Surfaces

The following articles address both structure and function of natural hierarchical materials and report strategies for the translation of the bioinspired concepts into functional engineering materials. Below are the first accepted contributions to the special issue and more are to follow as they are accepted.. Contacts

Special issue on Bioinspired Hierarchical Materials

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.

Biomimetics | SpringerLink

Bioinspired structural materials Ulrike G. K. Wegst 1 *, Hao Bai 2 , Eduardo Saiz 3 , Antoni P. Tomsia 2 and Robert O. Ritchie 2,4 * Natural structural materials are built at ambient temperature from a fairly limited selection of components.

Bioinspired structural materials - Berkeley Lab

Research Overview NLBB 2014 Newsletter Examples of Research Programs. Biomimetics 1. Multiscale Dissipative Mechanisms and Hierarchical Surfaces 2. Biomimetics Bioinspired Hierarchical-Structured Surfaces for Green Science and Technology 3. Biomimetics: Lessons from Nature - an Overview 4.

Research Overview | Nanoprobe Laboratory for Bio

Biomimetics or biomimicry is the imitation of the models, systems, and elements of nature for the purpose of solving complex human problems. The terms "biomimetics" and "biomimicry" derive from Ancient Greek : βίος (bios), life, and μίμησις (mímēsis), imitation, from μέσθαι (mēsthai), to imitate, from ...

Biomimetics - Wikipedia

Biomimetics: Bioinspired Hierarchical-structured Surfaces For Green Science And Technology, 2 Edition by Bharat Bhushan / 2013 / English / PDF. Read Online 24.1 MB Download. ... This new edition also contains new chapters on the butterfly wing effect, bio- and inorganic fouling and structure and Properties of Nacre and structural coloration.

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