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These intriguing functions obtained through the structures of relevant biological materials are reliable,

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Surfaces Characterization And Technological Applications

durable, and nontoxic as additional advantages, and thus have been inspiring to functional materials for a variety of practical applications, e.g., high-performance bioinspired anticorrosion coatings , gecko-inspired high adhesion pads , nature-inspired reversible underwater adhesives , and bioinspired self-shaping composites .

Biological and bioinspired materials:
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Based on Laser-Induced Periodic
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Otto Schott Institute of Materials
Research (OSIM), Löbdergraben 32,
Jena 07743, Germany

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Inspired Functional ...

indicated that bio-inspired structures were generally designed according to the shape or profile features of biological prototypes [13-15].

Excellent mechanical properties of bio-inspired structures are closely related to those structural parameters and their interactions though it is difficult to analyze [16]. Thus, the structural optimization

Compressive properties optimization of a bio-inspired ...

Nature has endowed many of its living systems with functional structures with highly tuned wettability. Inspired by nature, scientists began to mimic these natural templates and as a result a wide spectrum of biomimetic superhydrophobic surfaces are fabricated. Fluorinated synthetic

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materials are currently uRecent Review Articles

Bio-inspired sustainable and durable superhydrophobic ...

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Bioinspired Surfaces with Superamphiphobic Properties ...

Here, a new method was developed to print functional living skin (FLS) using a newly designed biomimetic bioink (GelMA/HA-NB/LAP) and digital light

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Surfaces (DLP)-based 3D printing technology. The FLS possess interconnected microchannels that facilitates cell migration, proliferation and neo-tissue formation.

Rapid printing of bio-inspired 3D tissue constructs for ...

I. Functional Properties of Biological Surfaces --1. Biomimetics of Skins / Julian F.V. Vincent --2. The Shark Skin Effect / Amy W. Lang --3. Lotus Effect: Superhydrophobicity and Self-Cleaning / Michael Nosonovsky, Edward Bormashenko --4. The Moth-Eye Effect --From Fundamentals to Commercial Exploitation / Andreas Gombert, Benedikt Blasi --5.

Functional properties of bio-inspired surfaces ...

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description here but the site won't allow us.

scholar.google.com

It starts with a detailed explanation of the four typical, useful properties of biological surfaces the shark skin effect (anti-friction surfaces), the lotus effect (self-cleaning or anti-adhesive surfaces), the gecko effect (dry adhesive surfaces) and the moth eye effect (anti-reflective surfaces) and shows their extended application in technology.

Functional Properties of Bio-Inspired Surfaces ...

The first and second part cover the most relevant synthetic and bioinspired nanomaterials, including surfaces with extreme wettability properties, functional materials with

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improved adhesion or structural and functional systems based on the complex and hierarchical organization of natural composites.

Bio- and Bioinspired Nanomaterials | Wiley

In this critical review, we will present biological rigid structural models, functional micro-/nano-building blocks, and hierarchical assembly techniques for the manufacture of bio-inspired rigid structural functional materials (177 references).

Hierarchical assembly of micro-/nano-building blocks: bio ...

Functional properties describes how ingredients behave during preparation and cooking, how they affect the finished food product in terms of how it looks, tastes, and feels. Functional

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properties include: Dextrinisation; Caramelisation; Flavour; Preserving; Jelling; Denaturation; Coagulation; Gluten formation; Shortening; Plasticity; Aeration; Flakiness

Functional properties of food | IFST Abstract. Biological nanochannels, such as ion channels and ion pumps, existing in cell membranes and intelligently controlling ions through the cell membrane serve as a big source of bio-inspiration for the scientists to build artificial functional nanochannels. In this Feature Article, a general strategy for the design and synthesis of bio-inspired smart single nanochannels is presented, and put into context with recent progress in constructing symmetric and asymmetric smart single polymer ...

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From symmetric to asymmetric design of bio-inspired smart ...

Inspired by natural caterpillars and the hydrophilic properties of ... Bio-Inspired High Sensitivity of Moisture-Mechanical GO Films with Period-Gradient Structures | ACS Applied Materials & Interfaces

Bio-Inspired High Sensitivity of Moisture-Mechanical GO ...

The purpose of our project is to develop brain-inspired chemical sensor arrays from physiological, theoretical, and engineering points of view. In the previous work, a computational model for chemical sensor arrays has been proposed based on physiological properties of mouse taste bud cells (TBCs).

Functional Properties of Resonate-and-

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Hierarchical assembly of micro-/nano-
building blocks: bio-inspired rigid
structural functional materials. Yao

HB(1), Fang HY, Wang XH, Yu SH.

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