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### **Biomimetics Bioinspired Hierarchical Structured Surfaces**

Self-cleaning surfaces are a class of materials with the inherent ability to remove any debris or bacteria from their surfaces in a variety of ways. The self-cleaning functionality of these surfaces are commonly inspired by natural phenomena observed in lotus leaves, gecko feet, and water striders to name a few. The majority of self-cleaning surfaces can be placed into three categories: 1

...

### **Self-cleaning surfaces - Wikipedia**

However, they have damage-tolerant properties suitable for the development of strong, tough, flexible, and lightweight bioinspired armour. Moreover, we highlight AM processes that are adopted to build hierarchical biomimetic structures. The future direction of fabricating bio-inspired armour using AM is also discussed. 2.

### **Biomimetic armour design strategies for additive ...**

The lotus effect refers to self-cleaning properties that are a result of ultrahydrophobicity as exhibited by the leaves of Nelumbo, the lotus flower. Dirt particles are picked up by water droplets due to the micro- and nanoscopic architecture on the surface, which minimizes the droplet's adhesion to that surface.

### **Lotus effect - Wikipedia**

Bhushan, B. Biomimetic: Bioinspired Hierarchical-Structured Surfaces for Green Science and Technology 1st edn (Springer, 2012). Book Google Scholar 58

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### **Nature-inspired superwettability systems | Nature Reviews ...**

An impressive example of (super)hydrophobic surfaces is found in nature, referring to the extreme water repellency and self-cleaning surface effect exhibited by the leaves of the lotus flower (Shulman, 2008). Great efforts were devoted to the understanding of the relationship between the structures and super-hydrophobicity of natural creatures and the fabricating artificial superhydrophobic ...

### **Superhydrophobic modification of cellulose and cotton ...**

NANO 252. Biomaterials and Biomimetics (4) Fundamentals of materials science as applied to bioengineering design. Hierarchical structures. Cells and tissues. Natural and synthetic polymeric materials. Biomineralized materials. Biological composites. Cellular materials (foams). Functional biological materials. Biomaterials and implants.

### **NanoEngineering (NANO) - General Catalog 02-03-2021 Interim**

Bioinspired designs can convey prototypes with “material”, “mechanical”, and “learning” intelligence. By referring to the abilities of cephalopods, this review analyses the technological state-of-the-art and open challenges in soft robotics respect to functional materials, innovative design approaches and synthetic learning paths.

### **Advanced Materials Technologies: Early View**

Intercalation of foreign species can induce structural evolution and phase transition of 2D materials. In article number 2000581, Liang Zhen, Cheng-Yan Xu, and co-workers summarize recent progress on electrochemical intercalation of foreign species into atomically thin 2D materials. The relationship between materials, structures, and properties during the intercalation of atoms/ions/molecules ...

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ICRA2020-paper-list. Welcome to ICRA 2020, the 2020 IEEE International Conference on Robotics and Automation. ICRA is the largest robotics meeting in the world and is the flagship conference of the IEEE Robotics & Automation Society.

### **GitHub - PaoPaoRobot/ICRA2020-paper-list: ICRA2020 ...**

La iridiscencia es un fenómeno óptico caracterizado como la propiedad de ciertas superficies en las cuales el tono de la luz varía de acuerdo al ángulo desde el que se observa la superficie, como en las manchas de aceite, las burbujas de jabón, las alas de una mariposa y el lado reproducible del disco láser, ya sea CD o DVD. La iridiscencia es causada por múltiples reflexiones de la luz ...

### **Iridiscencia - Wikipedia, la enciclopedia libre**

Unsupervised Learning of a Hierarchical Spiking Neural Network for Optical Flow Estimation: From Events to Global Motion Perception. Gallego et al., CVPR 2019 , Focus Is All You Need: Loss Functions For Event-based Vision .

### **GitHub - uzh-rpg/event-based\_vision\_resources**

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