Special Issue

Bio-Inspired Surfaces

Message from the Guest Editor

Bio-inspired surfaces are advanced materials and structures designed by mimicking natural phenomena. Drawing inspiration from biological systems, such as the self-cleaning property of lotus leaves, the water-repellent surface of shark skin, or the adhesive ability of gecko feet, researchers aim to create surfaces with enhanced functionalities. These surfaces are crucial for a variety of applications, including water management, energy efficiency, and healthcare. By emulating nature's optimized designs, bio-inspired surfaces contribute to advancements in materials science, offering sustainable, energy-efficient, and environmentally friendly solutions to modern challenges. The aim of this Special Issue on "Bio-Inspired Surfaces" is to advance the understanding and development of surface technologies inspired by nature's design principles. By exploring the intersection of biology, materials science, and engineering, this Special Issue seeks to highlight cutting-edge research that leverages natural systems to create innovative surfaces with unique functionalities.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Surfaces and interfaces are ubiquitous, and their relevance in Chemistry, Physics, Catalysis, Materials Science & Engineering, Nanoscience, Biology and Nanomedicine is nowadays well acknowledged. Similarly, surfaces cannot be neglected when targeting applications in many strategic fields, such as sensors, energy conversion and storage, environmental and food science, and medical devices.
Surfaces is a new Open Access journal that will provide rapid publication of scholarly articles on studies related to surfaces and interfaces. Its mission is to publish cutting edge articles and conference proceedings and organizing special issues to highlight outstanding research on specific topics, encouraging the application of a rigorous Surface Science-based approach to many complex interesting phenomena and breaking boundaries among different disciplines.

Editor-in-Chief

Prof. Dr. Gaetano Granozzi
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