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# **Advances in Biomimetic Materials 2021**

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Deadline for manuscript submissions: closed (20 August 2021)

### Message from the Guest Editors

I invite you to contribute to a Special Issue of the journal *Applied Sciences*, "Advances in Biomimetic Materials 2021", which aims to present recent developments in use of new functional materials in the field of biomimetics.

Modern electronics needs silicon materials. The use of higher plants such as rice, horsetail, etc., with a high content of phytoliths has been proposed, as well as diatoms as a renewable raw material for the production of amorphous silica.

The skeletons of sea urchins (class Echinoidea) are of particular interest. Their tests are made of stereom, this calcium carbonate material with a special threedimensional structure offers us an approach to creating mimetic new materials with a wide range of potential applications. The resulting bulk porous material has an extremely large surface area, which significantly increases its useful functional properties, such as absorption.



**Special**sue





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# **Editor-in-Chief**

#### Message from the Editor-in-Chief

**Prof. Dr. Giulio Nicola Cerullo** Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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