



materials



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Advances in Bio-inspired Materials

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Message from the Guest Editor

Dear Colleagues,

Unlocking the mysteries behind the superior design and mechanical properties of natural materials, promises to bring soon decisive novelties to our lives. From the elasticity of blood vessels, to the self-healing properties of bones, the strength of nacre, the smart adhesion of gecko feet, the self-cleaning quality of the lotus leaf, the resistance of the spiderweb, biology offers endless inspiration to engineering materials.

In this special issue we focus on the most recent advances in bio-inspired materials, with an emphasis on their mechanical hierarchical design, from the nano- to the macro-scale, hoping to contribute to the advent of a new material era.

Prof. Dr. Nicola Pugno

Guest Editor



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Message from the Editor-in-Chief

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