

Special Issue

Advances in Bio-inspired Materials

Message from the Guest Editor

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.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2012)



Materials

an Open Access Journal
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Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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