

Special Issue

Biomimetic Nanotechnology

Message from the Guest Editor

Biological materials, structures and processes are predominantly based on functionalities at the nanoscale. These nanoscale functionalities are often peppered with added components embedded in beautiful hierarchical layers moving from the micro-, through the meso- and finally to the macroscale. Both smart approaches and a focus on properly identifying the underlying principles in nature are necessary for us to be able to transfer lessons from living systems to technology, science, engineering and the arts. The aim of this Special Issue is to provide a forum and a survey for the most recent advances in the field of biomimetic nanotechnology, addressing challenges in modern engineering applications, with a focus on safe nanotechnology and sustainable biomimetic nanotechnology; covering topics from biologically inspired hierarchical materials, tuneable materials with nanoscale functionalities, nanocomposites, nanoparticles, nanosensors, and green nanotechnology for biomedical, environmental, industrial, and energy applications. Prof. Dipl.-Ing.

Guest Editor

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Message from the Editor-in-Chief

Editor-in-Chief

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