Special Issue

Biomimetic Organic–Inorganic Composites

Message from the Guest Editor

In the world of increasing demand for novel, advanced materials, biomimetic organic–inorganic composites are emerging as promising materials for an increasing number of applications in biomedicine, pharmacy, photonics, catalysis, and environmental protection. Combining inspiration by natural materials, both in design and synthetic routes, with the newest developments not only in materials science, but also biology and nanotechnology, has opened a wide range of possibilities for tailoring materials properties while keeping them environmentally friendly and sustainable. The large variety of inorganic and organic materials that can be used in developing biomimetic organic–inorganic composites additionally contributes to their importance. This Special Issue is dedicated to the recent developments in the field of biomimetic organic–inorganic composites, from fundamental understanding of functioning of natural materials and mechanisms of organic-inorganic interactions in complex systems, to advances in processing routes and development of multifunctional materials.

Guest Editor

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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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