Special Issue

Silk-Based Biomaterials

Message from the Guest Editor

Silk is a fascinating natural material. It combines excellent mechanical properties with good biocompatibility, biodegradability, and non-toxicity. These characteristics render silk a material for biomedical applications. The present Special Issue on “Silk-based biomaterials” aims to discuss all aspects of silk application in biomedicine, including silk design, production, purification, characterization,modification/functionalization, processing into biomaterial, and in vitro and in vivo material characterization. In this Special Issue, we welcome full articles, short communications, or reviews to present ideas (or problems) regarding the biomedical application of silk and the control of silk properties to obtain materials suitable to perform specific functions in biomedicine. This Special Issue offers a good opportunity to researchers of different fields to consolidate the general knowledge about the recent developments in silk-based biomaterials and to highlight new challenges requiring further research. It is our pleasure to invite submissions for this Special Issue in *Materials*.

Guest Editor

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Message from the Editorial Board

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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