



Advances in the Preparation and Application of Silk Fibroin Materials

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Message from the Guest Editor

Silk fibroin protein, a natural biopolymer that is derived from the cocoons of silkworms, especially domestic species *Bombyx mori*, have internal good biocompatibility, mild immunological response, and anti-inflammatory and tuneable physicochemical properties. These have resulted in the use of silk ranging from skin care to tissue regeneration and pharmaceutical applications.

The present Special Issue on “Advance in Preparation and Application of Silk Fibroin Materials” will compile research and review papers including, but not exclusively limited to, the following topics:

- *the processing of silk extraction from natural sources,
- *genetically engineered silk fibroin and chemically modified silk fibroin,
- *material structure and function,
- *biomimetic/bio-inspired materials,
- *wearable devices,
- *3D printing,
- *carbon-neutral materials.





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Message from the Editor-in-Chief

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