Special Issue

Advanced Biomaterials and Biofabrication

Message from the Guest Editors

A variety of biomaterials, including hydrogels, bioceramics, and polypeptides, have been widely used in biomedical applications, such as bioadhesives, bioelectronics, medical implants, organ-on-chips, and drug delivery systems. The design and fabrication of predictive structures and functions are essential for the development of advanced biomaterials. It is most effective to realize the targeted composition–structure–function relationship using advanced biofabrication technologies, such as micropatterning, electrospinning, and 3D bioprinting. In light of this, there is a high demand for versatile biomaterials as well as novel biofabrication technologies, which in turn leads to new opportunities in bio-design, biomimetics, and regenerative applications. In this perspective, this Special Issue focuses on innovative biomaterials and biofabrication technologies for biomedical applications. Some relevant topics include, but are not limited to:

- The development of novel biomaterials for biomedical applications;
- Innovation in 3D bioprinting and other biofabrication technologies;
- Applications of biomaterials and biofabrication.

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