

Special Issue

Advances in Biomimetic Materials and Biomedical Devices

Message from the Guest Editors

Biomaterial science involves the collaboration of many academic disciplines, including material science, chemistry, biology, biophysics, biomechanics, pharmaceutical science, tissue engineering, and medicine, to provide therapeutic solutions for treating, repairing, or replacing diseased tissues and organs. They are fundamental parts of drug delivery systems, from drug-eluting contact lenses to nanocarriers, and are the materials of choice in tissue engineering applications. In the last few years, massive developments have been made in the field of biomaterials, and research activities have led to improvements in the biomimetic features of designed tissue constructs and biomedical devices. This Special Issue will include original articles and reviews on the following topics: 3D bioprinting of organs and tissue constructs; Smart devices in the biomedical field; Drug delivery systems and routes of administration; 4D bioprinting for the fabrication of intelligent organs/tissues/devices; Nanotechnology for drug delivery; Stimuli-responsive materials and new chemistries in the biomedical area.

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Editor-in-Chief

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