



Additive Manufacturing towards the Design of 3D Advanced Scaffolds for Tissue Engineering (Second Volume)

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Message from the Guest Editors

Dear Colleagues,

The design of 3D advanced scaffolds for tissue engineering is possible using innovative and creative engineering methods based on additive manufacturing (AM). This approach allows the generation of devices with complex architectural features and tailored functional properties, meeting design requirements and constraints. A variety of biocompatible materials can be processed through AM, such as degradable and non-degradable polymers, natural and synthetic materials, composites, metals and ceramics, etc.

The potential topics include, but are not limited to, the following:

- Design methods
- Conceptual design
- Creative design
- Design of experiments
- Design for additive manufacturing
- Topology optimization
- Generative design
- 3D/4D Printing
- Bioprinting
- Biomanufacturing and biofabrication
- Lattice structures
- Biomimetics and bioinspiration
- Computational design
- Artificial intelligence applications



- Computer-aided engineering



materials

- Reverse engineering
- Finite element analysis
- Modeling and simulation
- Cell–material interaction

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Message from the Editor-in-Chief

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