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Biomaterials, Implants and Scaffolds in Additive Manufacturing

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Deadline for manuscript submissions:
closed (30 June 2021)

Message from the Guest Editors

Dear Colleagues,

Additive manufacturing (AM) is revolutionizing the production of implants and scaffolds with complex or intricate geometries for advanced functionality. Nevertheless, the AM processing conditions for manufacturing implants and scaffolds that fulfill clinical, material, and mechanical requirements requires further investigation. This can lead to undesirable material and mechanical characteristics that result in lower functionality. It is, therefore, importance to focus research efforts on the inter/post-processing optimization of the production of implants and scaffolds specialized for AM.

It is important to assess aspects of advanced/optimized biomaterials (surface morphology, design, geometry, porosity, and mechanical properties, material properties and materials composition) in AM in biomedical applications, including implants and scaffolds for the further development of high biocompatibility and safety.

This Special Issue will focus on recent progress in the development of implants and scaffolds using AM. Submitted manuscripts may cover all aspects of AM for the development of implants and scaffolds.

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Message from the Editor-in-Chief

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