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Research on Recycling/Reuse of Polymers and Composites

Guest Editor:

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Message from the Guest Editor

Additive manufacturing has enabled the production of previously unseen and complex geometries for functional parts without the need for special tools, devices, and/or jigs. Additive manufacturing through material extrusion is currently available at build volumes ranging from less than 1 m^3 to more than 90 m^3. Although often reported as a green manufacturing process, material extrusion printing generates waste at several points. These include during printing where material is purged, when prints fail and cannot be recovered, during machining of prints to their final shape, at the end-of-life of a print, and at many other stages. This Special Issue seeks submissions related to projects and technologies that seek to minimize the waste generated from additive manufacturing by recycling end-of-life material. Special consideration will be given to projects that seek to derive value from waste and re-integrate it back into new material systems for re-manufacturing. Projects that quantify environmental impacts and the costs of existing recycling technologies will also be considered.

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Message from the Editor-in-Chief

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