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Specialty Polymers for Additive Manufacturing

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Message from the Guest Editor

Dear Colleagues,

In recent years, a vast rising interest in Additive manufacturing (AM) is notable, as these manufacturing methods allow for the production of complex and individualized parts with novel functionalities. With respect to the AM of polymers, powder bed fusion in particular, often referred to as laser sintering or selective laser sintering, as well as fused deposition modeling and stereo lithography are promising. A current drawback limiting the use of AM-produced parts is the limited choice of available polymer materials: For example, in powder bed fusion of polymers, more than 90 percent of the market share by now is made up of polyamide powders, mostly polyamide 12.

This Special Issue calls for papers that report on the development (production and functionalization) and characterization of novel specialty ('non-standard') polymer materials for the aforementioned AM processes (and variants). Of course, contributions that also report on the AM processability of these novel polymer materials, part characterization, or the application of the produced parts are highly welcome.



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