

Special Issue

Specialty Polymers for Additive Manufacturing

Message from the Guest Editor

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.

Guest Editor

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Message from the Editorial Board

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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