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Recent Advances in Additive Manufacturing Technologies

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Message from the Guest Editor

The additive manufacturing (AM) revolution is in its very beginning stages, and the value of the AM market in the next decade is estimated to be in the several billions of Euros. AM is also developing exponentially in the areas of science and technology for medicine (artificial bones, implants, etc.), composites (ceramic-matrix, metal-matrix, etc., including diamond-containing compositions), automotive, and aerospace (metals, alloys, etc.).

This Special Issue is devoted to modern trends in manufacturing, as well as the properties and applications of 3D- and 4D-printed materials with a focus on powder production, characterization, SLM, SLS, other plasma-based and hybrid methods, etc., and the mechanical and physicochemical properties of the obtained products. The scope of this Special Issue also includes other methods of AM for the above-mentioned materials, including cold deposition, bioprinting, nano-object fabrication without plastics, plastic composites, and concrete-based building material manufacturing.



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Special Issue



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Message from the Editor-in-Chief

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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