



materials



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Advanced Technology for Materials Synthesis and Processing

Guest Editor:

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Deadline for manuscript
submissions:

closed (30 June 2020)

Message from the Guest Editor

Dear Colleagues,

This Special Issue of *Materials* is focused on recent developments in the area of Additive Manufacturing (AM) processing methods, materials and related implementation. AM production technologies have developed significantly in recent years. We have seen the development and implementation of new metals, polymers and ceramics; multi-material printing; shape memory alloys; nano and multi-scale material design; composites; and metamaterials. Production technologies development includes for metals: SLM, DED, and Ink jetting; for polymers: STL, SLS and Ink jetting; and for ceramic: STL, FDM composite, and Ink jetting. The sustainability of AM has been noted as an advantage of this production method compared to alternative conventional and assembly technologies, yet this remains an under examined area and while correct in the case of some part designs, it is not correct for all part designs. While papers are encouraged in the above mentioned areas, papers are invited more broadly from this rapidly changing area of AM technology.



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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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