

Special Issue

Additive Manufacturing of Smart Polymers and Composites

Message from the Guest Editors

Currently, additive manufacturing is the conceptual counterpart of molding and subtractive production techniques, but it also describes a technological paradigm that is capable of subverting, at all levels, the approach to the entire life cycle of products. Polymer-based materials and, even more so, nano- and fiber-reinforced composites with smart, hybrid, and multifunctional characteristics have gained high interest due to increasingly different areas of application in medical, aerospace, and automotive sectors thanks to new shape evolutions related to 3D printing.

We encourage researchers to submit papers for inclusion in this Special Issue. The topic themes include polymer and composite AM development, polymer-based composite deposition, multi-material deposition, in situ functionalization, process optimization for smart materials and composites, advanced strategies to improve polymer or polymer composite bonding/strength, new deposition approaches, new evaluation techniques for polymers and composites produced for additive manufacturing, and polymer-based smart additively manufactured parts.

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Deadline for manuscript submissions

closed (20 July 2024)



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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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