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Additive Manufacturing of Smart Polymers and Composites

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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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Special Issue



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Message from the Editor-in-Chief

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