

Special Issue

3D Printing Technology for Polymer Composites

Message from the Guest Editors

To showcase latest advances and facilitate academic exchange, the journal *Coatings* launches this Special Issue. We invite global researchers and engineers to submit high-quality original research articles and reviews focusing on 3D-printed polymer composites. Research topics welcome in this Special Issue may include (but are not limited to) the following:

- Formulation design/functional optimization of 3D-printed polymer composites (fiber-reinforced, particle-filled, nanocomposite, etc.);
- Compatibility of mainstream/new 3D printing processes (photopolymerization, FDM, SLS, etc.);
- Interface bonding, defect formation mechanisms, and regulation strategies;
- Microstructural characterization and performance testing (mechanical, thermal, electrical, biocompatibility, etc.);
- High-performance composites for extreme environments (high temperature/pressure, corrosion, etc.);
- Functionally integrated composites;
- Forming precision control, post-processing, and large-scale production;
- Numerical simulation, performance prediction, and reliability analysis;
- Innovative applications in aerospace, biomedicine, electronic packaging, etc.

We look forward to receiving your contributions.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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