# Special Issue

# Advances in Polymer-Matrix Composites

### Message from the Guest Editor

Polymer–matrix composites are becoming more and more prominent in the fields of structural engineering due to their favorable specific and functional properties. This Special Issue aims to encourage scientists to publish their original experimental and theoretical results on recent advances in polymer–matrix composites. This includes but is not limited to:

- Development of polymer-based multifunctional composites;
- Experimental techniques for understanding and characterization of the mechanics and physics of polymer composites, e.g., digital image correlation, electron microscopy, X-ray and synchrotron radiation computed tomography;
- Simulation of polymer–matrix composites, including continuum mechanics, fracture mechanics and data-driven approaches;
- Polymer composites engineering by simulation—polymer composite-by-design approaches.

Of particular interest to this Special Issue will be the study of new classes of advanced composite materials. In addition, submissions addressing new results in the characterization and/or simulation at different length scales and the bridge between processing and performance are highly encouraged.

### Guest Editor

Dr. Albertino Arteiro

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### Deadline for manuscript submissions

closed (20 February 2023)

**Materials**

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## About the Journal

### 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.

### Editor-in-Chief

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