

## Special Issue

# Mechanical Properties and Structures of High-Performance Polymer Composites and Metal Alloys Processed by Additive Manufacturing Technologies

### Message from the Guest Editors

This Special Issue welcomes original research contributions and review articles highlighting advances and future directions in the field of additive manufacturing (AM) of Polymer-Based Composites and Metal alloys. It will publish cutting-edge original research and review papers on the latest advances in new polymeric composite systems. The main scope of this Special Issue is to gather scientific expertise from all fields covering mainly mechanical properties and structural analysis of additively manufactured elements. The Special Issue is dedicated to a wide range of applications. New AM technologies based on material extrusion, binder jetting, selective curing/sintering, multi-material printing and in-situ and post-processing techniques to improve part strength and structure–property relationships are also covered. Contributions that also report on part characterization, the effect of process parameters on mechanical and geometric performance, application of the produced parts, new developments in CAGD (computer-aided geometric design) to generate optimized trajectories of AM technologies with improved accuracy or post-processing techniques, are particularly welcome.

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### Guest Editors

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Dr. Jesús Miguel Chacón Muñoz

Dr. Pedro José Núñez López

Dr. Eustaquio García-Plaza

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### Deadline for manuscript submissions

closed (20 September 2023)



## Materials

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## About the Journal

### Message from the Editorial Board

*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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