

Special Issue on

Current Trends in Polymer Additive Manufacturing: Optimal Design and Use of Advanced Polymers

CALL FOR PAPERS

The tremendous ascent of additive manufacturing (AM) pushes the design limits beyond known frontiers. Polymer processing does not fade from the AM spotlight. Current challenges in design accuracy, dimensioning, productibility, and performance are debated in all scientific stages. The major focus of this call is to present the current state of the art in polymer additive manufacturing including processing, characterisation, and modelling. This call refers to all advances in polymer AM including stereolithography, fused deposition modelling, droplet-based manufacturing, and powder processes.

Potential topics include but are not limited to the following:

- ▶ Process and printed part optimization using numerical modelling or statistical methods
- ▶ Modelling and numerical simulation of additive manufacturing processes, prediction of 3D printed parts mechanical behaviour
- ▶ Advances in characterization methods including imaging techniques applied to additive manufacturing (X-ray micro-tomography), in-situ experiments, mechanical characterization, and microstructural characterization
- ▶ Additive manufacturing of functional materials including smart materials, metamaterials, bio-inspired structures, multi-material 3D printing, and shape memory polymers

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/ijps/pam/>.

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