Special Issue

Fatigue and Experimental Analysis of Printed Polymer Specimens

Message from the Guest Editor

In recent years, fused filament fabrication (FFF) as a form of additive manufacturing (AM) has become a popular method for the manufacture of prototypes, as well as functional parts. Although many research papers cover the subject of the determination of mechanical properties and characteristics of polymer-based specimens, theoretically and experimentally, there is a lack of research and scientific papers dealing with the problematics of S–N curves based on the fatigue, torsional fatigue and the rotating bending fatigue analysis of those polymer materials.

The object of this Special Issue is to address issues related to the aforementioned problems concerning polymers. Areas to be covered in this Special Issue may include, but are not limited to:

Torsional, rotational bending fatigue test methods;
Standard fatigue test methods;
Tensile and creep testing under different conditions;
Crack initiation and propagation;
Surface fracture analysis.

Different approaches, i.e., analytical, numerical, and experimental, are encouraged and welcome.

Guest Editor

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker
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