

Special Issue

Engineering and Medical Polymer Additive Manufacturing: Current and Future Trends

Message from the Guest Editors

Polymer additive manufacturing (AM) is transforming the engineering and medical industries by enabling rapid prototyping, product customisation, and the production of very complex geometries. Therefore, current trends focus on enhancing material properties, scalability, automation, recycling, sustainability, biocompatibility, and multi-material printing, to name a few, driving advancements in aerospace, aeronautical, automotive, and biomedical applications. In engineering, for instance, high-performance polymers are currently being designed to improve strength, thermal resistance, and chemical stability to fit specific environmental conditions. Meanwhile, medical AM is revolutionising patient care with 3D-printed implants, prosthetics, and bio-printed tissues, utilising biopolymers and hydrogels for better integration and functionality. These scientific and technological improvements are sure to challenge quality and safety, demanding new regulations and standardisation. The of this Special Issue are thrilled to invite researchers, entrepreneurs, and specialists, either academic or from industry and services, to contribute to the advancement of this field.

Guest Editors

Dr. Rui F. Martins

Department of Mechanical and Industrial Engineering, NOVA School of Science & Technology, Universidade NOVA de Lisboa, 2829-516 Caparica, Portugal

Dr. Ricardo Branco

Department of Mechanical Engineering, University of Coimbra, 3030-788 Coimbra, Portugal

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Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

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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

Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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