



an Open Access Journal by MDPI

Advances in Additively Manufactured Reinforced Polymers

Guest Editors:

Prof. Dr. Andrea Bernasconi Department of Mechanical Engineering, Politecnico di Milano, Milan, Italy

Dr. Luca Michele Martulli

Department of Mechanical Engineering, Politecnico di Milano, I-20156 Milan, Italy

Deadline for manuscript submissions: closed (10 September 2023)

Message from the Guest Editors

Additive manufacturing for continuous and discontinuous fiber-reinforced polymers offers many advantages as compared to conventional manufacturing techniques such as injection molding or automated tape laying. These advantages include the fabrication of new optimized structures, integration of short and continuous fibers, and on-demand fabrication of tailored products. For these manufactured additively fiber-reinforced reasons. polymers are gaining popularity in the research and industrial communities. To fully exploit the potential offered by these materials, a key factor is the knowledge of relationships between the process-induced the microstructure and the mechanical performance (stiffness. static, fatigue, and creep strength) of material and structures. Another key factor is the development of models capable of predicting the mechanical properties and printing quality of materials and components. This Special Issue covers these topics and focuses on the relationships between process, microstructure, and performance of additively manufactured fiber-reinforced polymers.

We kindly invite you to submit your work to this Special Issue.









an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

 Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The iournal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites. advanced materials characterization, porous materials, manufacturing processes and svstems. 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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/materials materials@mdpi.com X@Materials_Mdpi