

## Special Issue

# Advanced Materials for Polymeric 3D Printing Applications

### Message from the Guest Editors

Various AM techniques, such as extrusion (fused deposition modeling/fused filament fabrication), photopolymerization (stereolithography (SLA)/digital light processing (DLP)) and beam deposition (selective laser sintering (SLS)), can be used to 3D print polymeric components. Research in additive manufacturing (AM) and 3D printing of polymeric materials is receiving growing attention due to a wider selection of materials, reasonable print performance and more affordable costs, in addition to the common advantages of additive manufacturing. However, in order to extend the uses of 3D printed components their mechanical performance must be improved. New polymeric materials or new polymer composite materials are needed to widen the application of 3D printed polymers. This Special Issue welcomes research or review papers on a wide variety of topics covering advanced materials in polymeric 3D printing applications, as well as unique applications of 3D printing technologies.

- advanced materials
- additive manufacturing
- 3D printing

---

### Guest Editors

Dr. Tze Chuen Yap

Dr. Mohd Rizal Alkahari

Dr. Kean How Cheah

---

### Deadline for manuscript submissions

closed (30 September 2024)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.3



[mdpi.com/si/163420](https://mdpi.com/si/163420)

*Applied Sciences*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[appls@mdpi.com](mailto:appls@mdpi.com)

[mdpi.com/journal/  
appls](https://mdpi.com/journal/appls)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.3



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### 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), Ei Compendex, Inspec, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)