

## Special Issue

# Materials Development by Additive Manufacturing Techniques

### Message from the Guest Editors

Nowadays, metal additive manufacturing (AM) processes have a great impact on several industrial production processes. These technologies bring many advantages from a material perspective. The high cooling rate causes the solidification of peculiar microstructures and interesting mechanical properties. Nonetheless, some high-strength alloys are not processable by AM. It is therefore fundamental to develop high-strength alloys that can be processed by AM and can take advantage of the unique solidification conditions that arise during the building process. This Special Issue will address the advancements in AM alloys' design and characterization. Potential topics may include:

- New methodology for materials additive manufacturing development;
- New materials for additive manufacturing;
- Advanced characterizations of AM materials;
- Microstructural features of AM materials;
- Properties of AM materials;
- Materials modeling for AM development

---

### Guest Editors

Prof. Dr. Paolo Fino

DISAT - Department of Applied Science and Technology, Politecnico di Torino, 10129 Turin, Italy

Dr. Alberta Aversa

Department of Applied Science and Technology, Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129 Torino, Italy

---

### Deadline for manuscript submissions

closed (31 March 2020)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/30280](https://mdpi.com/si/30280)

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

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

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





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[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, Embase, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )