



Nanomaterials and Nanotechnologies for 3D Printing

Guest Editors:

Prof. Dr. Kuang-Ting Hsiao

William B. Burnsed Jr.
Mechanical, Aerospace, and
Biomedical Engineering
Department, University of South
Alabama, Mobile, AL 36688, USA

Prof. Dr. Joseph H. Koo

Walker Dept. of Mechanical
Engineering, Texas Materials
Institute, The University of Texas
at Austin, Austin, TX 78712-0292,
USA

Deadline for manuscript
submissions:

closed (30 April 2024)

Message from the Guest Editors

Three-dimensional printing is also known as additive manufacturing, which fabricates parts using layer-by-layer deposition. Various processing mechanisms and material systems can be used in 3D printing processes. This Special Issue focuses on the uses of nanomaterials in 3D printing. Nanomaterials, which include, but are not limited to, carbon nanotube, carbon nanofiber, graphene, nanoclay, nano-silver, titanium dioxide, ceramic nanoparticles, and nanocellulose, can be blended into the material system of the 3D printer for enhancing the properties or adding the multifunctional performances of the 3D-printed parts. We welcome and encourage the submission of manuscripts on original research, comprehensive reviews, experimentation, modeling, characterization, and/or novel applications of nanomaterials used in 3D printing.

Keywords

- 3D printing
- additive manufacturing
- nanomaterial
- nanoparticle
- multifunctional
- processing
- modeling
- performance
- characterization





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us

Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](https://twitter.com/Applsci)