

Special Issue

Nanomaterials in Cancers Therapy

Message from the Guest Editor

Cancer is a global issue causing death. Though many types of treatments are available, the effective and safe delivery of drugs to target tissues still needs attention. Fortunately, nanomaterials have great potential to address these problems. Nanomaterials fall between 1 and 100 nm in size with unique optical, magnetic, and electrical properties. A variety of nanomaterials are being used for cancer therapeutics such as metallic (gold, silver, etc.), polymeric (PLGA, PLA, etc.), carbon-based (carbon nanotubes, graphene, fullerenes, etc.), ceramic-based (silicon dioxide, alumina, and other metal oxides), and biological nanomaterials (proteins, lipids, nucleic acid, etc.). These nanomaterials are being used as drug carriers, gene carriers, chemotherapeutics, photosensitizers, etc. They are also involved in multifunctional strategies like gene silencing, immunotherapy, and photothermal therapy. Many other nanomaterials are under clinical trial for cancer therapy. However, this field is still in its preliminary stages, and a large number of challenges remain to be addressed to accelerate nanomaterial translations.

Guest Editor

Dr. Komal Vig

Department of Biological Sciences, Alabama State University,
Montgomery, AL 36101, USA

Deadline for manuscript submissions

20 August 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



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

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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

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