Special Issue

Nanoparticles for Diagnosis and Therapies

Message from the Guest Editor

In recent years, significant progress has been made in the design of nanoparticles for the detection and treatment of disease. These include nanoparticles for the detection and treatment of cancer and cardiovascular disease, which are two of the biggest killers of people in the world. Nanoparticle structures have also been developed for the specific targeting of poverty-related diseases (PRDs) that are often found in the developing world. These will be explored in this Special Issue, which will include contributions by researchers with diverse backgrounds in chemistry, physics, biology, materials science and engineering.

This research will explore new frontiers in the design of nanoparticle structures that can target specific receptors on the surfaces of diseased cells, tissues and organs. The papers will also consider the interactions between nanoparticles and receptors on the surfaces of diseased cells, as well as the effects of localized release by drug/nanoparticle systems. The implications of the studies will also be discussed for applications in disease detection and treatment.

Guest Editor

Prof. Dr. Winston Wole Soboyejo

Department of Biomedical Engineering, Gateway Park Life Sciences Center, 60 Prescott Street, Worcester Polytechnic Institute (WPI), Worcester, MA 01605, USA

Deadline for manuscript submissions

closed (31 December 2020)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/22495

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

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, CAPlus / SciFinder, and other databases.

Journal Rank:

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