Special Issue

Nanoparticles and Their Application

Message from the Guest Editor

Nanoparticles are sub-micrometer particles that represent a distinguished class of materials with unusual properties and a broad range of structures. Their structure can be dominated by a crystalline order or, in the contrary case, can be amorphous. Combinations are also possible where several different phases coexist together in one NP. Often, such multiphase NPs have a core/shell structure. An especially promising area for application of NPs is that of drug delivery for pharmaceutical purposes. Preferably, the drug delivery nanoparticles should possess a high level of biocompatibility, a large area-to-volume ratio (to be able to load more therapeutic molecules), an external interfacial layer ("stealth" corona) for stabilization, and an affinity to a specific target. This Special Issue invites original contributions from our colleagues working in the areas of NPs, broadly defined. Manuscripts in the form of short communications, full research articles, and reviews on recent developments in all areas of this exciting and fast-growing field are welcome.

Guest Editor

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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

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