



Physical Properties of the Nanoscale Materials

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Deadline for manuscript
submissions:

closed (31 May 2021)

Message from the Guest Editors

An understanding of the impact of a particle's size on its physical properties is of significant interest. Studies aimed at correlating the properties of nanomaterials, such as size, morphology, surface area and charge, composition, and type of structure, with optical, magnetic, biological, or chemical properties are under way. These fundamental studies will allow us, in the near future, to create the next generation of nanoscale devices. Using nanotechnology, materials can effectively be made to be stronger, lighter, more durable, and more reactive, and possess higher luminescence efficiency, higher thermal sensitivity, better electrical conductivity, higher magnetization, and higher bioactivity, among many other features.

This Special Issue aims to present novel structures showing the impact of a grain's size on its optical and magnetic properties. We encourage the submission of papers on the application of nanostructures in medicine, electronics, catalysis, and photonics. Other topics of interest include theoretical studies and experimental studies related to the size effect observed in powders, ceramics, thin films, and glasses.





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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.

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