Special Issue

High Dielectric Constant Nanoparticles

Message from the Guest Editors

High dielectric constant nanoparticles are an important emerging technology that allow us to significantly improve performance and functionality of future electronic devices as sensors, electro-optical devices, thermistors and multi-layer ceramic capacitors. Additionally, the importance of the technology related with energy efficiency and saving has been emphasized increasingly. For instance, novel dielectric nanocomposites of ferroelectric polymers and surface-functionalized high-K nanoparticles with comparable dielectric permittivities and homogeneous nanoparticle dispersions have been reported the enhancement of energy density for high density electrical energy storage. In this special issue, we will cover a wide range of this research topic from the various chemical synthesis and manufacturing techniques of high-K nanoparticles to their chemical/physical/optical properties, characterization methods and applications.

Guest Editors

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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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