



High Dielectric Constant Nanoparticles

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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.





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Message from the Editor-in-Chief

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