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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 multilayer 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 nanoparticles high-K 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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