

## Special Issue

# High-k Materials and Devices 2014

### Message from the Guest Editor

Advanced gate stacks with high dielectric constant materials (high-k) for complementary metal-oxide-semiconductor (CMOS) and memory applications in sub-22 nm feature size integrated circuits have been a subject of intense research in recent years. The main focus of the forthcoming special issue is to present a comprehensive overview to our readers by assembling state-of-the-art research articles and reviews on processing and characterization of high-k gate material. The topics covered by this special issue include high-k materials and deposition methods; Deposition on high-mobility substrate such as Ge, GaAs, and other III-V compounds; Interface passivation of substrate/high-k interface; Reliability of high-k material; Characterization techniques and Application to non-volatile memory systems. Prof. Dr. Durga Misra

### Guest Editor

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### Deadline for manuscript submissions

closed (15 January 2014)



## Materials

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## About the Journal

### Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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### Editor-in-Chief

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