Special Issue

Multifunctional Oxide-Based Materials: From Synthesis to Application

Message from the Guest Editors

The study and development of novel, oxide-based multifunctional materials with unique properties has become one of the most expanding fields in materials chemistry in recent years. The reason for this is that there are numerous inorganic/inorganic, as well as inorganic/organic, combinations that can be synthesized via different methods. The resulting mono-oxide and multicomponent systems or hybrids often possess exciting new properties for future materials, technological and environmental applications. This fact acts as a driving force for research and development of such systems. Even more importantly, these properties can be easily modified via the selection of hybrid components or via a typical functionalization process with the use of specific modifiers. Consequently, oxide-based hybrids have been widely applied in adsorption, catalysis (e.g., photocatalysis), polymer processing, optics, photoelectronics, electrochemistry, medicine, etc. This Special Issue focuses on recent advances in the synthesis, functionalization and application of oxide-based hybrids.

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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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