Special Issue

Structure and Property Control of Nano-Mineral Materials

Message from the Guest Editor

The production of clay minerals for industrial and environmental uses continues to grow annually and new applications of clays are an exciting area of research and development. Sorbent clays, pillared clays, swelling clays and surface modified clays all have applications in the expanding environmental markets such as landfills, fluid barrier applications, selective ion sorption and others. The major industrial applications of clays are still expanding including uses in paper, paint, plastics, ceramics, drilling fluids, foundry bondants, catalysts, agriculture, construction materials, pet litters, sorbents for oil and water spills and many others. Special attention should be given to “new” clay minerals or synthetic clay minerals which do not have a natural counterpart, such as transition metal ion containing clay minerals with prospects in catalysis. The aim and scope of the Special Issue focus on the structure evolution and property modification of mineral materials or nano mineral materials towards application of clay minerals in industry areas such as pollutants adsorption and catalytic degradation.

Guest Editor

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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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