Special Issue

Sol-Gel Synthesis of Materials

Message from the Guest Editor

Over the last few decades, the sol-gel techniques have been widely used to prepare advanced materials in the world. It is well known that physical properties of crystalline materials are strongly dependent on the phase purity, grain size and grain size distribution. Therefore, sol–gel processing route is most convenient method among different synthesis methods because of its simplicity, good mixing of starting materials, relatively low reaction temperature and easy control of chemical composition of the end product. Sol-gel synthesis is utilized to fabricate advanced materials in a wide variety of forms: ultrafine powders, thin film coatings, fibbers, porous or dense materials. The scope of this Special Issue of Materials is focused on the development of sol-gel synthesis technique, and application of sol-gel processing for the fabrication of multifunctional materials, which are important in all industrial areas. The field of the research in the evolution of inorganic networks through the formation of a colloidal suspension (sol) and gelation of the sol to form three-dimensional, continuous network in a liquid phase (gel) is very much appreciated.

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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