Special Issue

Sol-Gel Materials for Sustainable Application

Message from the Guest Editor

The sol–gel process is a versatile chemical synthesis used in the preparation of materials, especially oxide compounds and non-crystalline solids, at low temperatures. In addition to its ability to synthesize, sol–gel chemistry employs a variety of physical and chemical parameters that allow the creation of materials with different architectures. Growing concern with the environment and with the legacy left to future generations has changed the way the world in recent times. Innovative eco-based materials are a response to the growing global demand for green industries, sustainable energy savings, reductions in CO2 emissions and circular economy. Recyclability and degradation from a circular economy perspective are also goals that need to be achieved. In this Special Issue, from an ecological and sustainable perspective, we focus on sol–gel materials for sustainable application, exploring the advances in the field of sol–gel materials/nanomaterials, inorganics, hybrids and polymers, from synthesis to applications.

Guest Editor

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Deadline for manuscript submissions

closed (10 July 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/123250

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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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