Special Issue

Functional Hybrid Materials for Catalytic and Environmental Applications

Message from the Guest Editors

During the last few years, there has been a dynamic increase of interest in studies focused on the selection of appropriate synthesis or modification methods of titanium dioxide. Moreover, the selection of proper components which, together with TiO2, form multifunctional hybrid materials with strictly defined physicochemical properties is crucial for the production of the next generation of such type of materials (photocatalysts, biocides, or electrode materials). The development of methods for obtaining modified forms of TiO2 is very complex and requires several complicated experimental procedures. Furthermore, this great challenge allows to assess the possibility of controlling the physicochemical and structural properties of hybrid materials directly during their synthesis and of determining the mechanisms of interactions at the TiO2–second component interface.

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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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