

Special Issue

Production, Characterization and Adsorption Studies of Composites

Message from the Guest Editor

Nowadays, bio-sorbent based composites, with the significantly more efficient sorption properties, are also considered as alternative materials for sorption of pollutants. The applicability of a composite materials for specific pollutants removal depends on the physicochemical properties, surface properties, functional groups etc., based on fact this is important to characterize the morphology and the structure. Basic physicochemical properties include material pH, ion exchange capacity (IEC), specific surface area (SSA), elemental analysis and CHNS content analysis, amongst others. The structure characterization and morphology should be described by commonly used methods such as e.g. SEM, SEM-EDX, TEM, FT-IR, XPS, XRD, TGA, and NMR. Based on all of the above-mentioned facts composites, produced by application-oriented, outcome-based modification or synthesis, are developed as innovative sorbents for the improvement of the environmental quality of contaminated regions, and to decrease the eco-toxic effects of various pollutants.

Guest Editor

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Message from the Editorial Board

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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