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Production, Characterization and Adsorption Studies of Composites

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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.

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Message from the Editor-in-Chief

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