Special Issue

Removal of Pollutants by Adsorption Technologies

Message from the Guest Editors

The existing remediation methodologies for the removal of metals or organics are oxidation, coagulation and flocculation, precipitation, ion exchange, membrane filtration, ozone oxidation and bioremediation. Most of the methods involve the production of highly contaminated sludge and high maintenance costs or the use of a relatively expensive mineral matrix that offsets the performance and efficiency advantages. Adsorption has largely emerged as significant technology for removing harmful substances from water or soil. Adsorption is the most cost-effective, simple, flexible and efficient process. In addition, it produces minimum chemical or biological sludge and the adsorbent can be regenerated and reused which leads to a more cost-effective process. This Special Issue is organized into three sections: Section 1– Advanced activated carbon preparation technology and activated carbon with strong adsorption capacity;
Section 2–Activated carbon as potential material for heavy metal removal from wastewater or soil;
Section 3–Activated carbon adsorption kinetics and in situ soil remediation techniques.

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