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Advanced or Conventional Materials as Sorbent

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Message from the Guest Editor

For the separation and/or removal of pollutants in water or air, various approaches have been developed and utilized such as thermal oxidation, photocatalytic conversion, absorption, and adsorption. Amongst such available options, sorption has been widely acknowledged as the most economic, practical, flexible, and efficient methodology. For sorption treatment, numerous materials have been introduced as sorbent materials. Many research efforts have been put to develop diverse novel and/or functional materials including carbon nanotubes, graphene materials, metal organic frameworks, and so on. Although the considerably enhanced performance of those materials is well demonstrated, the use of conventional sorbents (e.g., activated carbon) is still preferred in many circumstances due to their high feasibility in terms of price. In this SI, authors are invited to describe various aspects of sorption-related issues with respect to material chemistry/engineering, environmental/energy fields, and many other fields that employ sorbent materials.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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