

Special Issue

New Materials and Technology for Waste Water Treatment

Message from the Guest Editor

Dyes represent a high environmental problem and it is very difficult to eliminate them from waste waters due to their heterogeneous composition. Studies on the adsorption phenomenon have shown it is superior to other techniques for the treatment of waste waters, as it is low-cost, highly efficient, easy to perform, and not influenced by toxic substances. There are several materials used in adsorption. Natural and synthetic zeolites are often used in modified form to optimize the adsorption process. Carbonaceous materials represent another important class due to their non-polar nature. Polymers with multilevel structures containing sub-micron pores and interconnected mesopores can be used to eliminate hazardous pollutants. Biochar is also a potential adsorbent material. Carbon nanotubes – single-walled or multi-walled – are attracting high interest in research as a new adsorbent material. They can also be used in other sectors such as fiber reinforcement.

The Special Issue is also open to any new efficient techniques that are different from the mentioned examples.

Keywords

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biochar
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Guest Editor

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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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