Advances in Materials Science and Engineering

Special Issue on
Novel Approaches in Designing Natural/Synthetic Materials for Environmental Applications

Call for Papers

The designing of materials is one of the most developing sectors of environmental science. Novel materials can be synthesized having the ultimate goal of an environmental application. In this field many parameters play an important role as biodegradability, reuse/regeneration, cost, and environmental-friendly disposal. Other standards will be also taken into account as conditions of synthesis, possible use in columns, and so forth. This topic will include novel approaches in designing either natural or synthetic materials which will have direct application to environmental targets (dyes, heavy metals/ions, phenols, pesticides/insecticides, nuclear pollutants, etc.). The materials described can be used either for gas or liquid use (i.e., adsorption). Extra attention and priority will be given to real samples of environmental pollutants (industrial effluents). Scientific reviews and research papers are welcome. Potential topics include, but are not limited to:

- Novel designed activated carbons
- Modified (grafting, cross-linking) chitin and chitosan
- Zeolites and clays
- Graphene oxide and its composites
- Agricultural or food materials and their wastes
- Molecularly imprinted materials

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Manuscript Due	Friday, 25 July 2014
First Round of Reviews	Friday, 17 October 2014
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