

Special Issue for CURRENT ENVIRONMENTAL ENGINEERING

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Natural Agents as Alternatives to Synthetic Ones

Aim and Scope:

Disposal of colored wastewaters from many industries mainly from textile industry has introduced substantial amounts of potentially toxic organic substances into the atmosphere and into the aquatic and terrestrial environments. Currently a number of methods including ion exchange, membrane filtration, advanced oxidation, biological degradation, photocatalytic degradation, electro-coagulation, and adsorption are at operation for removing or minimizing these wastes. However, the treatment process of these waste waters using conventional methods has proved to be markedly ineffective, very difficult, and highly expensive.

Over the past few decades' intense research has been started round the globe to exploit different agents from natural products as ecofriendly alternative to synthetic agents and finishing agents. The current thematic issue entitled *Natural Agents as Alternatives to Synthetic ones* will first investigate the concentration of heavy metal ions in water bodies in India open to untreated municipal sewage, runoff, leachate of solid wastes and textile effluents. Besides it will pay attention to above mentioned challenges by exploiting ecofriendly, biodegradable and biocompatible dyes from natural sources. This thematic issue will be as asset as it encompasses to incorporate case studies, original research papers, and critical reviews written by pioneers in the field.

Keywords:

Metal salts, Toxicity, Leather, Mordanting, Synthetic dyes

Subtopics:

- Heavy metal ion concentration in waste waters of India
- Extraction and isolation of natural colorants from plant materials
- Replacing metal salts with plasma technology
- Greener methods for functional finishing of textile materials

Submission deadline: January, 2017