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Sustainable Bioremediation of Heavy Metals and Dyes Pollution

Guest Editor:

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Deadline for manuscript submissions:
closed (30 October 2021)

Message from the Guest Editor

Dyes and heavy metals are two major groups of pollutants that contaminate the water bodies with discharge from various industries, such as the textile and dyeing industry, leather tanning, paper and pulp, electroplating, pharmaceutics, food processing and mining industries. Heavy metals, and sometimes dyes, also contaminate the soil, affecting plant growth and productivity. Plant-based phytoremediation, which may also be microbe-assisted, has been found to be a successful approach to decontaminate such polluted sites.

The following themes would be of particular interest (note that this list is not exhaustive):

- Studies on various microbial systems for bioremediation of metals/dyes;
- Studies elucidating mechanisms of bioremediation of metals/dyes;
- Bioelectrochemical approaches (MFC, MEC) for bioremediation of metals/dyes and resource recovery;
- Ecotechnological approaches (constructed wetland) for dye/ heavy metal removal;
- Phytoremediation approaches;
- Hybrid systems for metal/dye bioremediation;
- Bio-nanotechnological studies for dye/metal removal;
- Pilot-scale studies on bioremediation with technical and economic feasibility analysis.

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Message from the Editor-in-Chief

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