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Phytoremediation: New Approaches and Perspectives

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Deadline for manuscript submissions:
closed (30 June 2022)

Message from the Guest Editors

Dear Colleagues,

Environmental pollution is a widespread problem that humans must prevent and counteract to ensure the wellbeing of all species on our planet. Among the methods used to decontaminate polluted water and soil, phytoremediation is highly regarded for its effectiveness and ecofriendliness. This technology uses plants capable of removing pollutants from the growing medium. Some plant species, possibly together with their associated microorganisms, have been proven to absorb and/or degrade large amounts of contaminants, without their vital functions being compromised. The phytoremediation techniques currently applied are many, and the range of pollutants that are successfully removed or made less harmful is vast. Nevertheless, many processes behind this technology remain to be elucidated. In addition, new approaches can be used to increase the performance of this technique or to broaden its horizon of application.

Given the importance of these themes in relation to the global challenges of environmental sustainability, this Special Issue of *Plants* aims to expand knowledge in this field.

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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