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Advanced Nanomaterials for Wastewater Treatment

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Deadline for manuscript submissions:
closed (20 December 2024)

Message from the Guest Editors

Dear Colleagues,

In recent years, nanomaterials have been the subject of research and development, successfully applied in many fields, such as catalysis, medicine, electronics and biology. Some of the properties of nanomaterials are due to the huge increase in surface area when going from a powder material to a nanoparticle material. The increase in surface area leads to an increase in the effectiveness of the reactions that can occur on them. In particular, the application of nanomaterials in wastewater treatment has attracted wide attention. Due to their small size, and therefore large specific surface areas, nanomaterials have strong adsorption and reactivity capabilities. Furthermore, the mobility of nanomaterials in solution is extremely high. The advent of nanomaterials offers numerous opportunities for the removal of heavy metals, microorganisms and organic pollutants from wastewater.

This Special Issue invites submissions of original research contributions and reviews regarding recent advances in the development, production and characterization of nanomaterials, as well as their use in new fields of application.

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Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal Environments, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

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