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New Trends of Functional Materials for Wastewater Treatment Applications

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Deadline for manuscript submissions:

closed (31 May 2024)

Message from the Guest Editors

Dear Colleagues,

Wastewater contains inorganic ions, dissolved organic molecules, fine-to-large particles, and microorganisms, and is treated by various methods, from basic to actual treatment, considering cost. Thus, the following functional materials could be used for this purpose: membrane, inorganic (organic) layered material, organic polymer, modified bio sorbent, fouling prevention material, aerobic or anaerobic materials, magnetic material, photochemical material, new ion exchange material, radical production material, catalyst, new solvent extraction material, ion liquid utilization, desalination system, and so on.

In addition, the following combinations of wastewater treatment methods with functional materials are considered: aerobic and anaerobic treatment, oxidation, reduction, precipitation, coagulation, stabilization, sorption, solvent extraction, bioremediation, microbial utilization, bacteria leaching, electric and magnetic field utilization, centrifugation, filtration, reverse osmosis, utilization of wastes, radioactive material treatment and recycling.

As the example mentioned above, many kinds of papers that describe the use of new materials are welcome.





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Message from the Editor-in-Chief

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