Special Issue

New Trends of Functional Materials for Wastewater Treatment Applications

Message from the Guest Editors

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, aerobatic or anaerobiotic 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

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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