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Advances in Polymers and Functionalized Materials in the Environment

Guest Editor:

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Deadline for manuscript submissions:
20 September 2024

Message from the Guest Editor

Dear Colleagues,

In recent years, various functionalized materials, including silica materials, zeolite–carbon composites, zeolite–vermiculite composites and polymeric materials, have been added to soil with increasing frequency. However, due to numerous modifications, their impact on the environment is not fully understood. In the case of polymeric materials, they are increasingly used to stabilize soil or are added to compost. These materials can affect the physical, chemical and biological properties of the soil to varying degrees.

The following are some of the major areas in which papers are solicited:

- Modification/functionalization of polymeric materials;
- Modification/functionalization of silica materials;
- Circular economy in waste management;
- Monitoring of soil pollution with trace elements and organic contaminants after the application of functionalized materials;
- Reclamation and revitalization of contaminated soil;
- Ecotoxicity assessments and ecological risk assessments after the use of functionalized materials.

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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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