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Advance Functional Materials for Environmental Monitoring and Remediation

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Message from the Guest Editors

The role of advanced functional materials for environmental monitoring and remediation is indispensable. These materials are a current topic of interest for environmental management in the context of clean water, pollution risk assessment, CO2 reduction, cleaner energy generation, and green fuel production, etc. Advanced functional materials encompass a vast range of hybrid and nanomaterials, including metal oxides, phosphides, graphene, carbon nitride, semiconductors, polymers, quantum dots, bi- and trimetallic nanoparticles, and ceramics, etc. These multifunctional materials can act as sensors for heavy metals or organic pollutants and thus assist in pollution risk assessment and, at the same time, they can be explored on the basis of their adsorption and photocatalytic nature for the remediation of environment contaminants. The combination of the above materials has led to designing a new class of materials known as composites, where such materials possess multiple applications with superior properties and improved stability.

This Special Issue will be dedicated to materials for environmental monitoring and remediation. Full papers, communications, and reviews are all 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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