Special Issue

Recycling Waste Materials into Geopolymer Concrete and Environmental Functional Materials

Message from the Guest Editors

Solid waste-based building materials and environmental functional materials are crucial for resource protection, waste reduction, sustainable development, and economic benefits. Encouraging the preparation and application of these materials is essential for establishing a sustainable society and environment. This Special Issue focuses on the recycling of waste materials into geopolymer concrete and environmental functional materials. We invite researchers from various fields to contribute their expertise in physics, chemistry, materials science, and engineering to discuss defects in soft matter. Topics covered in this Special Issue include the complete utilization of resources and defects in waste materials such as coal gangue, fly ash, tailings, industrial by-product gypsum, smelting slag, construction waste, and crop straw. We welcome full papers, communications, and reviews that address the recycling and harmless treatment of solid waste while also characterizing the pollution sources of solid waste. The goal of this Special Issue is to promote the material application of solid waste and advance the development of a circular economy.

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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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