Special Issue

Research on Alkali-Activated Materials

Message from the Guest Editors

Alkali-activated materials are a kind of cementitious material generated by the reaction of solid silicate wastes (such as slag, fly ash, kaolinite, etc.) with pozzolanic activity or potential hydraulic properties and alkaline activators, including four types: alkali-aluminosilicate vitreous, alkali-fired clay, alkali-ore tailings and alkali-calcium carbonate. It has the advantages of simple preparation, low cost, easy access to raw materials, low energy consumption, green environmental protection, high strength, good durability etc., and is considered as an ideal substitute for Portland cement materials. As a low-carbon material, it has become the focus and hot spot of research in major countries across the world. However, due to the complex source of raw materials, high content of alkali activator, lack of applicable additives, etc., the alkali-activated materials still are limited to use in practical engineering. This Special Issue aims to highlight the original findings regarding the alkali-activated materials, and the potential perspectives for future investigations are also encouraged.

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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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