

Special Issue

Research on Alkali-Activated Materials (Third Edition)

Message from the Guest Editors

Alkali-activated materials are cementitious materials generated by the reaction of solid silicate waste (slag, fly ash, kaolinite, etc.)—which possess pozzolanic activity or potential hydraulic properties—and an alkaline activator, such as alkali-aluminosilicate vitreous materials, alkali-fired clay, alkali-ore tailings, and alkali-calcium carbonate. Their advantages include simple preparation, low costs, easy access to raw materials, low energy consumption, environmental friendliness, high strength, and high durability, making them an ideal substitute for Portland cement. As low-carbon materials, they have become a research focus around the world. However, due to the complexity of sourcing raw materials, the high content of alkali activators, and the lack of applicable additives, the use of alkali-activated materials is still limited in practical engineering. The first and second editions can be viewed by clicking the links below: First Edition:

https://www.mdpi.com/journal/materials/special_issues/64XQPNV10E

Second Edition:

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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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