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Recycling and Sustainability of Cement-Based Materials: Properties, Applications and Challenges

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Message from the Guest Editors

Cement-based composite materials are widely used in the construction industry. However, the using these materials consumes large quantities natural resources and energy, resulting in serious ecological and environmental problems. Disposing of large amounts of construction and other industrial wastes is also a major cause for concern. Utilizing industrial waste products such as construction waste to create cement-based materials can effectively reduce natural resource consumption, save energy and promote ecological environment protection, making this a global research hotspot. The physical, mechanical, and corrosion resistance properties of cement-based materials, and the associated waste products, must be addressed in practical engineering applications. Cement-based materials and their applications in the construction and maintenance of infrastructure should be explored further to help achieve sustainable development.

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Message from the Editor-in-Chief

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