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Sustainable Cementitious Materials for Civil and Transportation Engineering

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Message from the Guest Editors

Concrete has become the most widely used construction material since its invention. Growing concerns over the greenhouse emissions profile of the Portland cement and concrete industry have led to a very high level of recent interest in the development of low-carbon construction materials. The construction industry has been under pressure to shift towards sustainability by developing alternative low-carbon cement and concrete materials.

Therefore, the special issue aims to focus on state-of-the-art progress, developments, and new trends on the physical and chemical mechanisms, fresh and hardened properties, long term performance and durability of sustainable cementitious materials with low carbon emissions for civil and transportation engineering. Both original research and review articles are welcome. In particular, the topics of interest include but are not limited to:

- Low carbon cementitious binders
- Carbonation enhanced concrete
- Low-carbon cement and concrete technology based on non-Portland cement systems, such as alkali-activated materials or geopolymeric materials
- Recycled aggregate concrete
- Green admixtures for cement and concrete
- Durability of low-carbon concrete

Special Issue



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Message from the Editor-in-Chief

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