



Binders and Concretes for Low-Carbon Construction

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Message from the Guest Editors

The need for a decrease in the environmental impact of construction materials based on binders and concrete could take several forms: decrease in the total amount of clinker and binder, development of cement and aggregate production with lower CO₂ emissions, use of alternative binders, recycling of by-products, improvement of the concrete properties, capture and store of CO₂ emissions, etc.

The development of concrete with low environmental impact needs include topics regarding:

- Efficient life cycle analysis based on global assessment of real data;
- Rationalization of performance regarding strength and concrete content in structural applications;
- Improvement of concrete workability;
- Consolidated evaluation of durability evaluation.

Research and publication of high-quality papers are strongly needed in order to develop the necessary knowledge to redefine the boundaries of the construction industry for the future.

The aim of this Special Issue is thus to propose an overview of the large field of innovation in the domain of binder and concrete for construction with a lower environmental impact.

