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Circular Economy - Supplementary Cementitious Materials in Binders: Processing, Design, Characterization and Performance

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Message from the Guest Editors

As a result of the aggressive consumption of resources, we must give up the existing linear economic models (extraction of raw materials, product processing, use, and waste storage) and adopt new models for sustainable management. Recycling is an essential part of ensuring this connection between the beginning and the endpoint of the industrial process, by rehabilitating materials in the production process.

The main objective of this Special Issue is to extend knowledge and highlight new supplementary cementitious materials (SCMs) that can be used in partial replacement of Portland cement. Additionally, it seeks to promote the processing, characterization, and creation of innovative designs for preserving the performance of cement/concrete, and using reactivated end-of-life materials in the circular economy context.

Keywords

- Circular economy
- End-of-life materials: advanced characterization
- SCMs activation and characterization
- Concrete/cement performance evaluation
- Recycled materials
- New binders design and processing.



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