

Special Issue on
**Hydration and Durability of Concrete Containing
Supplementary Cementitious Materials**

CALL FOR PAPERS

Fly ash from the combustion of coal, silica fume from certain metallurgical operations, granulated slag from both ferrous and nonferrous metal industries, and other supplementary cementitious materials (SCMs) are widely used as mineral admixtures in modern concrete industry. The early-age properties and durability of concrete can be significantly improved through using SCMs. In addition, due to energy-saving and resource-conservation, both ecological and economical benefit can be achieved by using SCMs.

This special issue aims to provide a wide overview on hydration and durability of SCMs blended concrete, such as hydration kinetics of blended cement, properties evolution of hardening blended concrete, and durability and sustainability of blended concrete. This special issue accepts original research articles and review articles containing latest developments about SCMs blended concrete. This special issue is valuable for readers to obtain recent progress in concrete incorporating SCMs.

Potential topics include but are not limited to the following:

- ▶ Thermal properties of SCMs blended concrete
- ▶ Mechanical properties of SCMs blended concrete
- ▶ Self-desiccation and shrinkage of SCMs blended concrete
- ▶ Heat of hydration of SCMs blended concrete
- ▶ Internal curing of concrete
- ▶ Early-age cracking of SCMs blended concrete
- ▶ Chloride ingress of SCMs blended concrete
- ▶ Carbonation of SCMs blended concrete
- ▶ Corrosion of steel rebar
- ▶ Durability mechanics of damaged structural concrete
- ▶ Life cycle assessment of SCMs blended concrete
- ▶ Performance modeling of SCMs blended concrete

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