



Low CO₂ Concrete

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Deadline for manuscript
submissions:

closed (31 May 2021)

Message from the Guest Editor

Dear Colleagues,

Concrete is being widely used in various types of infrastructures. CO₂ emission happens during the life cycle stages of concrete, and the emission of CO₂ becomes an urgent problem to be solved in the concrete industry. Governments, industry, and the research community are very concerned about material design, structural design, and construction methods of low CO₂ concrete. This Special Issue will provide a broad communication platform for low CO₂ concrete and highlight realistic and feasible directions for government decision-making and industrial production of low CO₂ concrete.

The Special Issue will introduce the latest progress in low CO₂ concrete and contribute to the development of low CO₂ society. The topics of this Special Issue include but are not limited to the following: material design of low CO₂ concrete; hydration performance; mechanical properties and durability of low CO₂ concrete; workability and construction methods of low CO₂ concrete; structural design considering CO₂ emissions; the application of multi-scale methods in low CO₂ concrete and CO₂ uptake of hardened concrete due to the carbonation and carbonation curing of fresh concrete.





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