



Sustainable Strain-Hardening Cementitious Composites (Sus-SHCC)

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Deadline for manuscript
submissions:

closed (1 July 2022)

Message from the Guest Editors

Strain-hardening cementitious composites (SHCC) reinforced by randomly distributed short fibers has attracted worldwide attention. Extensive research on SHCC has been conducted in the last three decades. SHCC is characterized with strain-hardening and multiple-cracking behaviors under uniaxial tension through tailoring the properties of fiber, matrix, and fiber/matrix interface.

The goal of this Special Issue is to provide a platform to report the up-to-date development of sustainable SHCC (Sus-SHCC), which includes the design theory, the effects of different supplemental cementitious materials (SCMs), the rheological properties of matrix and its influence on fiber dispersion, the fiber and matrix interaction, the mechanical properties and constitutive models, the size effect, the shrinkage property, the alternative green binder materials such as geopolymer, the durability and long-term tensile properties, the self-X performances (self-healing, self-sensing, self-cleaning, etc.), and the simulation of cracking propagation.





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Message from the Editor-in-Chief

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