

Special Issue

Sustainable Strain-Hardening Cementitious Composites (Sus-SHCC)

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 geopolymers, the durability and long-term tensile properties, the self-X performances (self-healing, self-sensing, self-cleaning, etc.), and the simulation of cracking propagation.

Guest Editors

Dr. Kequan Yu

Prof. Dr. Shuguang Liu

Prof. Dr. Guangcheng Long

Dr. Wenjun Zhu

Dr. Lili Kan

Dr. Yao Ding

et al.

Deadline for manuscript submissions

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Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario
Institute of Technology, Oshawa, ON L1G 0C5, Canada

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