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# Sustainable Strain-Hardening Cementitious Composites (Sus-SHCC)

Guest Editors:

### **Message from the Guest Editors**

Dr. Kequan Yu Prof. Dr. Shuguang Liu Prof. Dr. Guangcheng Long Dr. Wenjun Zhu Dr. Lili Kan Dr. Yao Ding Dr. Yan Xiong Deadline for manuscript submissions:

closed (1 July 2022)

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, selfsensing, self-cleaning, etc.), and the simulation of cracking propagation.









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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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*Sustainability* Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/sustainability sustainability@mdpi.com X@Sus\_MDPI