



Composite Materials for Sustainable Strengthening of Masonry Structures

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Deadline for manuscript
submissions:

closed (30 November 2022)

Message from the Guest Editors

Dear Colleagues,

Numerous studies concerning “traditional” and “innovative” strengthening techniques applied to masonry structures, with a special attention to material compatibility, reversibility, and durability of repair/retrofit intervention, have been presented in the literature. Within this regard, numerous techniques of retrofitting for historical and monumental masonry buildings, based on composite fiber materials, have recently been developed and widely investigated by means of experimental tests and numerical simulations.

This Special Issue aims to present the newest repair/strengthening techniques, based on fiber-reinforced composite materials, and recent developments in experimental and numerical investigation methods for masonry structures strengthened by means of these composite reinforcement materials. Particular attention will be given to new numerical models for nonlinear analyses and experimental works aimed at validation of procedures for practical design and safety assessments. The main target of the Special Issue is to promote a critical discussion of the multiple aspects related to the use of sustainable repair/strengthening systems.





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