

Lime-Based Materials for Historic Buildings

Guest Editors:

Dr. Bruna Silva

Civil Engineering Research and
Innovation for Sustainability
(CERIS), Instituto Superior
Técnico, Universidade de Lisboa,
Av. Rovisco Pais 1, 1049-001
Lisboa, Portugal

Dr. Ana Paula Ferreira Pinto

Civil Engineering Research and
Innovation for Sustainability
(CERIS), Instituto Superior
Técnico, Universidade de Lisboa,
Av. Rovisco Pais 1, 1049-001
Lisboa, Portugal

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Message from the Guest Editors

Dear Colleagues,

The maintenance and restoration of historic masonry buildings is an important issue in today's efforts to preserve the world's vast built heritage. However, problems related to lime-based materials currently used to repair or restore such structures still persist, mostly due to a loss of know-how and expertise on the production and application of these materials.

This Special Issue seeks to help solve this problem by intending to collect the latest research on lime-based materials for historic buildings. Topics of interest include (but are not limited to) the following: (i) characterization of old lime-based binders and materials; (ii) lime technology; (iii) viable lime-based materials for the conservation and repair of historic buildings; (iv) innovative tests to characterize these materials; (v) best practices for lime-based applications; (vi) the role of natural and artificial admixtures and additions; and (vii) the durability and compatibility of lime-based materials applied on historic masonry structures.

Guest Editors



Editor-in-Chief

Prof. Dr. David Arditi

Construction Engineering and
Management Program,
Department of Civil,
Architectural, and Environmental
Engineering, Illinois Institute of
Technology, 3201 South
Dearborn Street, Chicago, IL
60616, USA

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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Buildings Editorial Office
MDPI, St. Alban-Anlage 66
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