# Existing Environment, Equipment, Materials and Technical Means for Buildings

Guest Editor:

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## Message from the Guest Editor

Dear Colleagues,

How to create a pleasing indoor environment has long been a topic of considerable concern for people. An agreeable living environment can provide people not only with physical and mental satisfaction but can also improve their work efficiency and reduce health problems associated with indoor pollution. In order to create a high-quality indoor environment, it is important to first determine the characteristics of existing environments in various buildings and to identify any problems that they may give rise to. On this basis, research can be conducted on factors such as auxiliary equipment, new materials, and design selection processes used in the refurbishment of existing buildings. Such investigations can provide points of reference for future or current building renovations, which can therefore focus comprehensively on creating positive indoor environments.

Dr. Xin Zhang
*Guest Editor*

Special Issue

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## 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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