



Advances in Carbon Neutrality and Renewable Energy Integration in Architecture

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Message from the Guest Editors

This Special Issue aims to present the most recent advances in and current discussions on carbon neutrality in architecture as well as the integration of renewable energy technologies in buildings. Considering the high contribution of building industry to global emissions, architects, engineers, developers and all related stakeholders must adopt innovative design and implementation methods that combine building affordability with high performance and replicability. Therefore, the main purpose of this Special Issue is to provide references and tools to help disseminate carbon-neutral strategies and applications in the built environment. The topics include passive design strategies to maximize occupants' comfort in buildings with the lowest energy demand; the innovative use of low-carbon-embodied materials; methods to guide and assess carbon neutrality in building design and management; novel technologies for the integration of photovoltaic cells and other renewable energy sources into buildings; profitability and social acceptance studies of carbon-neutral buildings; the influence of green rating systems on promoting zero-energy and carbon-neutral buildings, among others.





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