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Renewable Energy Technology and Sustainable Building Research

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Message from the Guest Editors

Over the past few decades, global warming, extreme weather, environmental degradation and resource depletion have posed a major threat to human society. Green and sustainable development has become a worldwide consensus, and many countries have elevated "carbon neutrality" to a national strategy and put forward a bright vision of a zero-carbon future. The use of renewable energy is a fundamental way to eliminate carbon emissions and environmental pollution caused by fossil energy, but the development of renewable energy technology is still facing many challenges, such as economy, stability, industrialization and so on. In addition, buildings are a major consumer of energy, and according to a recent study, the building sector accounts for 40% of greenhouse gas emissions. Therefore, improving the energy efficiency of buildings and the utilization of renewable energy in buildings are important factors for energy conservation and emission reduction, and are also hot research topics nowadays.



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