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Recent Advances in Sustainable Building Material

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Message from the Guest Editors

The increasingly severe situation around ecological deterioration, climate change, and resource exhaustion is a constant reminder of the importance of sustainable development. As one of the most consumed and diverse materials, building materials have led to excessive ecological, economic, and social costs in raw materials extraction, manufacture, and disposal. Throughout history, there have been development trends in building materials, which have progressed from natural to artificial; biodegradable to perdurable; and single to composite material. At this moment in time, we urgently need to make sustainability the next target for building materials. This Special Issue is devoted to sharing and presenting creative works on advances in sustainable building materials, including but not limited to materials design, hazard-free treatment, waste management, carbon-neutral technology, environmental impact assessment, etc. We sincerely invite you to submit your investigation outcomes in the form of research articles and reviews.

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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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