Special Issue

Advanced Sustainable Materials in Buildings

Message from the Guest Editor

The building industry is one of the largest resource-consuming industries in the world, and encompasses materials extraction, energy consumption and waste generation. Currently, the construction sector is experienceing a critical phase where a balance must be achieved between present social demands and the environmental needs of future generations. Therefore, sustainable building materials and innovations in their design are crucial for reducing environmental burdens. This Special Issue is devoted to publishing papers that describe the most significant research on building materials, with a focus on advanced, sustainable materials, their environmental impact assessment and the application of machine learning and artificial intelligence to cause innovation and advancement in the design of these materials. I invite you to submit high-quality research and review articles focussing on, but not limited to, advanced sustainable materials in buildings.

Guest Editor

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Deadline for manuscript submissions

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About the Journal

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.

Editor-in-Chief

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