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Advanced Research on Building Materials Performance

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Deadline for manuscript submissions:
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Message from the Guest Editors

Our civilization is founded on building infrastructure, which plays a vital role in fostering economic growth. Scientific innovations in improving the performance of building materials have gained significant importance. Therefore, academic and industry researchers need to devote their research and development efforts to discovering how the performance of these materials can be fully realized. With the advancement of experimental techniques and analytical methods, the performance of advanced building materials and structures has been thoroughly studied from the microscale to the macroscale. Similarly, the latest advances in machine learning and artificial intelligence have enabled this technology to predict the performance of building materials in a more adaptable, efficient, and effective manner. Thus, this Special Issue aims to promote and disseminate the latest research on the performance of building materials.

This Special Issue is dedicated to advanced research on mechanical, thermal, and environmental performances, including the multifunctional properties of sustainable building materials and structures.

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Editor-in-Chief

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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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