Special Issue

Advanced Studies in Low-Carbon Building Materials

Message from the Guest Editors

Currently, the field of road engineering is progressing towards the development of more durable, sustainable, and cost-effective pavement infrastructure, placing higher demands on asphalt mixtures. As a result, the design and optimization of long-lasting asphalt pavement materials, sustainable asphalt mixtures, and recycled solid waste materials have become key focal themes in many countries. This Topic, "Advanced Studies in Asphalt Mixtures", welcomes high-quality works focusing on the development, design and application of asphalt mixtures utilized for In this Special Issue, original research articles and reviews are welcome. Research areas may include, but are not limited to, the following:

- Green and sustainable asphalt mixtures;
- high-performance and durable asphalt mixtures;
- evaluation of advanced asphalt mixtures:
- design theory and methodology of advanced asphalt mixtures;
- advances and emerging technologies in functional pavement materials.

We look forward to receiving your contributions.

Guest Editors

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).