



Mechanical Properties of Asphalt and Asphalt Mixtures

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Message from the Guest Editors

Asphalt mixtures are common pavement materials and the foundation of highway infrastructure. Their mechanical properties are directly related to the service behavior and service life of the pavement structure. Asphalt mixture mechanical properties are analyzed by means of testing and numerical simulation technologies. An effective path for the optimization of the construction, management, and maintenance of pavement structures can be proposed by predicting the performance service process of the pavement structure.

In recent years, many scholars have had many achievements in developing the constitutive model of asphalt base materials, the multi-scale mechanical behavior of asphalt mixture, and cross-scale prediction. In order to fully display the latest research achievements in the field of asphalt mixture mechanical properties, the journal *Buildings* would like to announce a call for papers for a Special Issue devoted to “Mechanical Properties of Asphalt and Asphalt Mixtures”.

For more information, please visit the link to the Special Issue at: <https://www.mdpi.com/si/179318>.





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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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