Special Issue

Innovation in Pavement Materials

Message from the Guest Editors

Future road pavement materials should develop in the direction of high performance, multi-variety, and comprehensive utilization and achieve coordination between materials and the environment while taking the road of sustainable development. Traditional materials should improve both their performance and their varieties. The future development trend of traditional road materials is how to better play to their respective advantages while improving their relatively weak aspects, thereby expanding their application scope and developing and innovating new types of pavement materials on the existing material varieties. Increasing the development of composite materials is another trend in the development of pavement materials in the future. In the current era of more and more mature technology, the emergence of a completely new material is a very difficult thing. The topics of interest in this Special Issue on innovation in pavement materials include but are not limited to green preparation and production of materials, environmentally harmonized materials, degradable materials, and solid waste utilization.

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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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