

## Special Issue

# Sustainable Road Materials and Pavement Design

### Message from the Guest Editors

Sustainable road infrastructure construction practices are critical to reduce adverse impacts on the environment and prolong the life of pavements. Usually, these sustainable methods include several ways:

- Acquiring sustainable and environmentally friendly asphalt materials: using solid or liquid waste to modify asphalt, improve the durability of asphalt, or using alternative petroleum-based asphalt materials.
- Recycling pavement materials: reclaimed asphalt pavement materials using low energy consumption yet obtaining high performance.
- Sustainable construction and management: energy-saving paving technology such as warm-mix or cold-mix technologies, and carbon footprint analysis and life-cycle assessment studies.
- Intelligent detection of pavement structure: the detection of pavement structure response by sensor, internal environment detection of pavement structure, road surface humidity and temperature detection and early warning.

This Special Issue will provide a collection of noteworthy experimental and/or numerical investigations and case studies related to these sustainable bituminous materials and reduced greenhouse gas emission paving technologies.

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### Guest Editors

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Dr. Xianyong Ma

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### Deadline for manuscript submissions

closed (31 October 2023)



## Sustainability

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### Editor-in-Chief

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