

## Special Issue

# Sustainable Asphalt Pavements: Advanced Materials and Technologies

### Message from the Guest Editors

This Special Issue focus on advancing innovative materials, design methodologies, construction technologies and performance evaluation systems that enhance the sustainability of asphalt pavements throughout their life cycle. Research areas may include (but are not limited to) the following:

- High-performance recycled materials for asphalt pavement
- Bio-based and waste-derived modifiers for asphalt pavement
- Energy-efficient construction techniques for asphalt pavement
- Low-carbon asphalt pavement design
- Durability enhancement for asphalt pavement
- Life-cycle assessment for asphalt pavement
- Intelligent maintenance strategies for asphalt pavement

The primary purpose of this Special Issue is to assemble cutting-edge research that bridges material science, engineering practice and sustainability science, providing actionable solutions for reducing carbon emissions, minimising natural resource consumption, extending pavement service life and improving resilience to climate and traffic loads. By promoting holistic approaches to sustainable pavement development, the issue supports evidence-based decision-making for greener transportation infrastructure worldwide.

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### Guest Editors

Dr. Ling Xu  
Prof. Dr. Fan Gu  
Prof. Dr. Junfeng Gao

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### Deadline for manuscript submissions

1 January 2027



## Sustainability

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# About the Journal

## Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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## Editor-in-Chief

Prof. Dr. Steve W. Lyon

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