

Special Issue

Advances in Pavement Engineering: Materials, Performance, and Sustainability

Message from the Guest Editors

This Special Issue highlights the latest advancements in pavement engineering, focusing on innovative materials, performance-driven design, and strategies for sustainable development. As transportation infrastructure is increasingly challenged by climate change, rising traffic demands, and resource limitations, the need for resilient, durable, and environmentally sustainable pavement systems has never been greater. Recent progress in this field spans the design and characterization of novel materials, improved mechanistic understanding of pavement behavior under extreme weather events, and the integration of sustainability metrics into maintenance and rehabilitation planning. Contributions are invited on, but not limited to, the following topics:

- Innovative and sustainable materials for asphalt and concrete pavements;
- Advanced performance testing and modeling of pavement structures;
- Climate resilience and adaptation strategies in pavement engineering;
- Pavement management systems, maintenance strategies, and decision-making tools;
- Life cycle cost analysis (LCCA) and life cycle assessment (LCA) in pavement systems.

We look forward to your contributions!

Guest Editors

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