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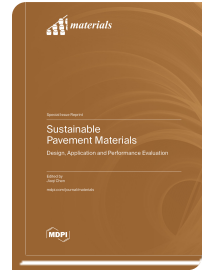
Sustainable Pavement Materials

www.mdpi.com/books/reprint/11551

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The study of pavement sustainability integrates environmental, economic, and social considerations across the pavement life cycle, with material selection profoundly influencing durability, resource efficiency, safety and maintenance strategies. As global demand for sustainable infrastructure grows, recent research has prioritized innovative road materials and design methodologies to enhance pavement sustainability. Despite significant progress, challenges such as optimizing material performance, reducing environmental footprint, and ensuring cost-effectiveness persist, necessitating further exploration. This Special Issue, "Sustainable Pavement Materials: Design, Application, and Performance Evaluation", in *Materials* (2024–2025) presents studies that advance sustainable pavement technologies, addressing durability, environmental impact, and resource efficiency in road engineering. Collectively, these studies advance sustainable pavement solutions through their exploration of innovative materials, recycling options, and robust performance evaluation, laying the foundation for durable, eco-friendly road infrastructure. To further their adoption, future research should focus on long-term field performance, cost-effectiveness, and standardized testing.

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