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## **Materials Innovation and Waste Utilization for Sustainable Pavement Solutions: Advancements in Construction, Performance, and Maintenance**

Guest Editor:

**Dr. Chaminda Gallage**

School of Civil and  
Environmental Engineering,  
Faculty of Engineering,  
Queensland University of  
Technology, Brisbane, Australia

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### **Message from the Guest Editor**

This special issue aims to explore the intersection of innovation and waste utilisation in the context of sustainable pavement solutions, focusing on advancements in construction, performance, and maintenance. With a growing emphasis on sustainability in infrastructure development, there is a pressing need to explore novel approaches that not only enhance the longevity and performance of pavements but also address environmental concerns by utilising waste materials effectively. This issue seeks to gather cutting-edge research and innovative practices that demonstrate how waste materials can be repurposed and integrated into pavement construction processes, leading to improved durability, reduced environmental impact, and overall sustainability. This special issue will encompass a broad spectrum of topics, including laboratory investigations, numerical modeling, field trials, case studies, data collection and analysis, life cycle assessment and carbon neutralisation, as well as the application of artificial intelligence and machine learning in the context of innovative waste utilization for sustainable pavement solutions.



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### Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

## Message from the Editor-in-Chief

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Materials Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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