Special Issue

Green Innovation and Performance Optimization of Road Materials

Message from the Guest Editors

This Special Issue, "Green Innovation and Performance Optimization of Road Materials," highlights cutting-edge research in sustainable road engineering. It focuses on eco-friendly material development, performance enhancement, and practical solutions for transportation infrastructure. Topics include recycled materials (e.g., plastics, rubber, glass, asphalt), bio-based binders, low-carbon processes, and functional materials like self-healing asphalt or sensor-integrated solutions. Advanced modification techniques (nanotech, additives) to improve durability and performance are also covered. Additionally, it explores life cycle assessments (LCA), sustainable design strategies, and innovative testing methods (lab/field trials, simulations). We invite global researchers, engineers, and industry experts to contribute, fostering collaboration for sustainable, high-performance road materials in infrastructure.

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About the Journal

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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