

Special Issue

Green Logistics: Transforming the Supply Chain Toward a Low-Carbon Future

Message from the Guest Editors

Against the global push for carbon neutrality, enterprises face critical supply chain challenges—high transportation emissions, inefficient use of warehouse resources, and opaque e-waste recycling—that undermine sustainability. In contrast, the supply chain, as the bridge connecting production and consumption, accounts for a significant share of global carbon emissions, making its low-carbon transformation imperative to meet global reduction goals. Policies such as the EU's Carbon Border Adjustment Mechanism (CBAM), which mandates full-chain carbon tracing for imported goods, and China's cold-chain subsidies aimed at promoting low-carbon agricultural distribution, further underscore the need to align logistics operations with regulatory requirements and emission reduction targets. The SI welcomes submissions with a focus on model-based insights—such as mathematical optimization, game-theoretic frameworks, or system dynamics models—to support evidence-based decision-making. This approach aims to consolidate actionable insights, enabling supply chains to transition from high-carbon bottlenecks to low-carbon enablers, thereby supporting progress toward global carbon neutrality.

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