Special Issue Reprint

Electric Vehicles for Smart Cities

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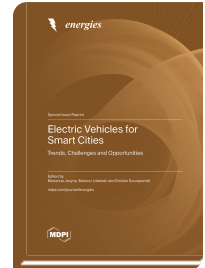
The concept of a smart city involves using modern information and communication technologies to improve quality of life and ensure the efficient functioning of urban systems. Its implementation covers traffic organization, urban infrastructure, energy, the environment and public health. A key element is promoting environmentally friendly transport, with the global shift from conventionally powered vehicles to electric mobility becoming an irreversible trend. This transformation requires appropriate infrastructure, effective operational strategies and the integration of diverse electric transport modes, including cars, buses, trolleybuses, trams, railways, e-scooters and e-bikes, into a coherent system.

This Reprint presents recent research and practical insights into the role of electric vehicles in building smart, sustainable and energy-efficient urban transport systems. It addresses technological, organizational and policy aspects, exploring topics such as innovative charging tariff systems, vehicle-to-grid solutions, the optimization of cold-chain deliveries and GIS-based planning of charging infrastructure. It also examines traffic safety, risk management, fleet conversion strategies and the development of green mobility scenarios. By combining case studies, methodological frameworks and decision-support tools, this Reprint provides a comprehensive view of how electric mobility can be effectively implemented and managed in smart cities, supporting decarbonization, resilience and the enhanced quality of urban life.

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