

## Recent Advances in Sustainable Vertical Urbanism

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### Message from the Guest Editor

Our cities continue to face numerous challenges. Climate change, rapid population increase, demographic shifts and, recently, COVID-19. Of course, there is a tremendous volume of literature that examines each of the above; however, there are fewer studies that examine the urban design aspects of various spatial arrangements that impact the city's sustainability. This Special Issue will focus on the larger views of sustainable urbanism. It will examine the spatial patterns of both exiting and emerging high-rise global cities. Specific topics will be devoted to walkability, mixed-use schemes, tourism, cultural vibrancy, transport accessibility, and environmental considerations. This SI will also examine sustainable spatial principles and the organization of buildings in relation to public spaces and amenities. Importantly, tall buildings in relation to the mass-transit network are seen to be crucial to the sustainability of a high-rise city. This SI aims to present a collection of articles enlightening upon recent urban developments and providing assistance and guidance in the design and planning of future cities.



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## 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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