

[DOI: 10.20472/IAC.2019.052.054](https://doi.org/10.20472/IAC.2019.052.054)

MOHAMMAD MEHDI REZAEI MAHMOUDI

Konkuk University, South Korea

JUYEON KIM

Konkuk University, South Korea

ANALYZING THE IMPACT OF GREEN ROOF AREAS ON THE CITIZENS SATISFACTION IN METROPOLITAN CITIES

Abstract:

Due to the rapid development of urban areas, citizens are facing several difficulties that are specific to the new era of urbanization. From the environmental perspective, most of the urban areas are dealing with limited natural resources and green spaces and causing environmental degradation. Since these can lead to a negative effect on the mental and health welfare, also the satisfaction of citizens, many metropolitan cities such as Seoul has recognized the necessity of green spaces. Green roofs has been strongly recommended as it can be an efficient method to increase the green space in a metropolitan area; hence Green roofs can be considered as an effective solution to address the citizens' needs and can fulfil the requirements of the infrastructure sustainability in metropolitan cities.

However, still, there is a lack of information on the ideal Green Roofs that are consistent with the environmental standards and citizens' preferences. In order to address this shortage, this study aimed to review the main trends, types, functions, and the benefits of Green Roofs in the contemporary situation of Seoul city.

Accordingly, this research is providing helpful insight in the planning scale about the impacts of pattern and function of green roofs in mega citifies. Practical implications will assist the managers to get familiar with the ideal shape and type of Green roofs, which will lead to environmentally friendly design, and sustainability of infrastructure.

Keywords:

Green roof, Metropolitan cities, Sustainability, Mental welfare, Citizens' satisfaction

JEL Classification: O21, I31, O29