

عنوان مقاله:

The Effect of Vertical Gardens in Designing Buildings to Improve Air Quality

محل انتشار:

پنجمین کنگره بین المللی مهندسی، تکنولوژی و علوم کاربردی (سال: 1402)

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خلاصه مقاله:

In the ۲۱st century, cities face many challenges, including air pollution. One solution to address this problem is to incorporate more green spaces. Greenspaces affect air quality through the ecosystem functions of vegetation. On the other hand, as cities become denser and the amount of available horizontal space for green areas drastically reduces and to address these climatic challenges, exterior green walls have become a rising trend in increasingly vertical cities. Today, a green wall is understood as a vertical wall that is partially or completely covered in vegetation. The aim of this article is to the effect of vertical gardens in designing buildings to improve air quality. On buildings, vegetation can help to regulate temperature and air quality and reduce the carbon footprint. vertical gardens can help mitigate air pollution by absorbing pollutants and producing oxygen. These elements can also reduce the urban heat island effect, contributing to a cooler and more comfortable environment. In addition, vertical gardens also indirectly impact our health by improving air quality and limiting the impact of heat waves by reducing urban temperatures. Therefore, the addition of nature to buildings while inspirational and aesthetically pleasing can be vital to the future of cities and well-being.

کلمات کلیدی:

.Vertical Gardens, Green Wall, Nature, Building Design, Air Pollution, Improving Air Quality

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