

عنوان مقاله:

Investigation of the Passive Design Strategies in Subtropical Cities to Mitigate Climate Change

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خلاصه مقاله:

Recently, the phenomenon of climate change and global warming caused by greenhouse gas emissions are considered as the top of the global agenda. China contributes an increasing and significant share of greenhouse gas emissions which have attracted international attention and concerns. Therefore, researches on finding effective strategies to reduce greenhouse gas emissions and prevent climate change have a significant importance. As the southeastern quarter of mainland China from Hong Kong north to Nanjing and the northern half of Taiwan has the subtropical climate, the use of passive strategies compatible with the subtropical climate in the process of building design plays an important role to reduce overall building energy consumption and mitigate greenhouse gas emissions in these regions. This research focuses on the passive methods of building design to prevent climate change in the subtropical climate. Some of the passive strategies that this paper has introduced include building envelope, natural ventilation, controlling of the heat gain through windows, slowing down the heat transfer into a building by using the reflective roof, evaporative cooling, high thermal mass, high thermal mass along with night ventilation

کلمات کلیدی:

.Passive Design Strategies, subtropical Climate, Climate Change, Global Warming

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