Title in Persian:

بخشی از ترجمه مقاله:

پژوهش با محوریت (DSFs) اکتشاف معایب و مزایای ماهای دوجداره ساختمان

Title in English:

Exploring the advantages and challenges of double-skin façades (DSFs)

Note:

این فایل تنها قسمتی از ترجمه میباشد. برای تهیه مقاله ترجمه شده کامل با فرمت ورده (قابل ویرایش) همراه با نسخه انگلیسی مقاله، اینجا کلیک کنید.
6. Conclusions

Buildings account for approximately 40% of global final energy use and this clearly indicates the necessity to adopt effective sustainable techniques for optimizing the performance of green buildings. One of the most critical aspects of designing energy efficient systems for integration in green buildings is to draw sufficient attention to the façades during the early stage of design. This is due to their direct impacts on the overall energy budget, user’s comfort and cost of the building services. In this line, the study developed a holistic overview of available literature on DSFs with viewpoint to their analytical procedures, ultimate benefits and challenges. This research aimed to oversee the current implications and implementations plus the future prospects of DSF systems. Findings confirmed that DSFs are globally widespread as a generally acceptable energy saving technique, an attractive option for improving the sustainable energy performance and an architecturally sleek option of building envelopes. Various attempts have been done to quantitatively measure and analyze their effectiveness. On the contrary, some studies criticized that only well-designed/ventilated DSFs can perform efficiently and their overall performance is highly dependent on the climatic conditions.