

عنوان مقاله:

omimetic-Based Designs for Responsive Facades to Optimize Energy Efficiency

محل انتشار:

اولین کنفرانس بین المللی کاربرد پژوهش و تحقیق در علوم و مهندسی (سال: 1395)

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خلاصه مقاله:

Recent literature shows that experimentation in architectural skins is more widely introduced as a solution for environmental-related design issues. Facades and elements are transformed in living creatures changing in synchrony with the surrounding environment. Nature, is a big factory, where the faults are kept at a minimum, choosing the most suitable material of all for the purpose, recycling them, and even changing every ingredient as conditions impose. Biomimicry examined models in nature. Through the lens of morphology, this research explores the possibilities of biomimetic composition afforded by facades in motion. The main objective of this paper is to investigate the ability of reducing energy consumption by applying the biomimicry approach on buildings responsive skin design. Finally, possible configurations to enhance energy performance are suggested.

کلمات کلیدی:

Responsive facade, Biomimicry, Energy efficiency, Sustainability

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