

عنوان مقاله:

The Impact of Indoor Environmental Quality of Green Buildings on Occupants' Health and Satisfaction: A systematic review

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خلاصه مقاله:

Introduction: The main benefits of green buildings for energy and water conservation have been investigated and well recognized in previous studies. However, indoor environmental quality (IEQ) and human health benefits of green buildings have not been examined comprehensively. This study aimed to conduct a systematic review over the current status of green and non- green buildings on their occupants' health and satisfaction. Methods: A systematic search was conducted throughout the following databases: Science Direct, Google Scholar, and Springer. We reviewed 690 articles that examined the relationship between buildings and health. In total, after excluding the irrelevant titles and non-English articles, 40 papers were included in the final analysis. Articles that evaluated IEQ factors and occupants' health through surveys from 2005 to 2018 years were selected for investigation. Results: The most important result of this study was identification of important factors in IEQ, including building design, aesthetics, and ergonomics, which have been less evaluated in previous research. Contrary to our assumption, the results of several studies indicated a further decline in IEQ parameters in buildings with Leadership in Energy and Environmental Design (LEED, USA) and Building Research Establishment Environmental Assessment Method (BREEAM, Europe) certification. However, performance improvements were reported in green buildings located in Asia (especially Singapore and Taiwan). Conclusion: According to this systematic review, we cannot claim that occupants of the green buildings enjoy higher IEQ, satisfaction, or health, compared with the occupants of non-green buildings.

کلمات کلیدی:

,Green building, Indoor environmental quality, Occupants' health
ساختمان سبز, ساختمان غیرسبز, کیفیت محیط داخلی, سلامت ساکنان

