

## عنوان مقاله:

Nanotechnology, a breakthrough in sustainable architecture

## محل انتشار:

پنجمین کنفرانس بین المللی مطالعات نوین مهندسی عمران، معماری، شهرسازی و محیط زیست در قرن ۲۱ (سال: ۱۴۰۰)

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## خلاصه مقاله:

The energy crisis of the last century has been one of the environmental problems that has affected many human activities. The issue of environmental protection, the needs of future generations and the use of energy, has introduced a new concept called sustainability in various sciences, including architecture. Indigenous architecture has unique features that, in addition to paying attention to beauty and environmental issues, must also meet the needs of the climate. The principles used in architecture include many sustainable architectural sciences, which can be an effective step towards achieving sustainable development. Due to its properties, nanotechnology can be a step towards maintaining and developing sustainable architecture in the present era. Here the question arises: How can nanotechnology be effective in reducing energy consumption in the native architecture of Iran? The purpose of this applied research is to investigate the effects of nanotechnology in the field of architecture using nanotechnology in sustainable and indigenous architecture of Iran. In this research, descriptive-analytical method and its nature of qualitative studies and field documentary data collection method and its type in terms of results based on applied research to study and evaluate various aspects of the use of nanotechnology in native architecture Iran and sustainable architecture are discussed. In this research, focusing on nanotechnology, first the principles of sustainable architecture and indigenous architecture are examined and finally the fundamental values of indigenous architecture that lead to the achievement of sustainable architecture using nanotechnology are discussed. The results of this study .using nanotechnology in architecture have a significant impact on improving building performance

## کلمات کلیدی:

Indigenous architecture, sustainable architecture, nanotechnology

## لینک ثابت مقاله در پایگاه سیویلیکا:

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