

Paper (8)

Title	The Influence of Nanotechnology synthesis in raising public buildings efficiency
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Abstract	<p>“Small is beautiful” is very famous statement of past but now it has to be modified by small is not only beautiful but powerful too. It is the era of nanotechnology where everything is going smaller and smaller to create big impression, to create cheaper, lighter and faster using fewer raw materials and consumes less energy. The research problem is crystalized as that the public buildings often suffers from deterioration conditions cause of the bad behavior which lead to a negative impacts on the building and neglecting the required periodic maintenance. Hence, the research aims to explore the appropriate application of nanotechnology to improve and upgrade the quality of these public buildings. To obtain the research aim the research will take a scientific path starting with theoretical part which includes the development of nanotechnology, carbon new morphologies and the application of nanotechnology in the Architecture, then the practical part consist of an exist pilot case study, the case study will pass through two stages, the first one measuring the quality level by finding the defects allocation in the different spaces, then the second stage will apply the nanotechnology applications to eliminate and remove these defects to improve the overall quality level. The recommendations will focus of the importance of using nanotechnology in architecture; also it urges the architects to be aware of new technology tools.</p> <p>Keywords— Nanotechnology, Defects, Quality, Maintenance and New Morphologies.</p>