

عنوان مقاله:

Bamboo: As a New approach to bio-materials and An Alternative Raw Material for Wood-Based Composites

محل انتشار:

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خلاصه مقاله:

Since the industrial revolution, population growth has made numerous consequences such as increasing demands for construction trends and overusing natural resources in order to fulfill human's requirements. Naturalism approach to sustainable architecture attempts to preserve biological resources and to bridge the gap between human being and nature with the aim of introducing a sustainable green materials to put a step towards preservation of the environment and to create demanded conditions. Therefore, nonrenewable and artificial materials have been superseded by renewable and green ones to alleviate environmental destructions such as global warming. This research compares advantages of bio-composites based on bamboo fibers with other conventional composites such as wood based composites. The results suggest that due to some differences between bamboo and wood such as macroscopic and microscopic characteristics, chemical composition, physical and mechanical properties, biocomposites based on bamboo fibres can compete with wood based composites by applying some equipments and measures. In light of .studying enumerated advantages for bamboo, it is hoped to utilize it in construction industry in the future

کلمات کلیدی:

Bamboo, bio-composies, green materials, natural fibers, material

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