



## Applications of Nanocomposite Materials in Dentistry

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## 4 - Dental pulp capping nanocomposites

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## Abstract

The current nanotechnological progress has evolved through the development of numerous newer nanobiomaterials, including nanocomposites. Nanocomposites are comprised of multiple nanoscale materials, or a nanoscale material incorporated into the bulk material. During the past few decades, different types of nanocomposites have been investigated for use in biomedical applications such as orthopedics, dentistry, drug delivery, tissue engineering, cardiac prosthesis, biosensors, and so forth. Numerous dental nanocomposites have also been designed and investigated for dentin-pulp regeneration, dental restoration, enamel substitution, periodontal ligament regeneration, periodontal drug delivery, and so forth. In recent years, a variety of dental pulp capping nanocomposites for the fortification of multifaceted vital dentin pulp have already been developed by various research groups. This chapter presents a comprehensive review on the use of nanocomposites in dental pulp capping.

Previous

Next

## Keywords

Nanotechnology; Nanocomposites; Dental pulp capping; Dentistry

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