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Nanocrystals research has been an area of significant interest lately, due to the wide variety of potential applications in semiconductor, optical

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## **Nanoclays Synthesis Characterization And Applications**

Due to being nontoxic, nanoclays and their composites have been studied for biomedical applications such as bone cement, tissue engineering, drug delivery, wound healing, and enzyme immobilization, among

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others. This chapter presents the state of the art of biomedical application of nanoclays and nanoclay-polymer matrix composite materials.

**Nanoclays for  
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The synthesis and application of clay-based materials have attracted great interest

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in recent years, in particular for biomedical applications involving wound care .

The most commonly used clay in the preparation of antibacterial materials is the montmorillonite (MMT), which is composed of silica tetrahedral sheets layered between an alumina octahedral sheets [ [1] , [2] , [3] ].

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Mono and Bimetallic Nano-particles have large surface area, and they help in enhancement of catalytic activity and hence are widely used in application of catalysis and

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semiconductors.<sup>60</sup> The size control of the synthesized copper Nano-particles yields several applications like hydrocarbon catalytic conversion, electron for sensor chemical application and for scanning probe applications.<sup>81</sup> The fingerprint identification of the copper nanoparticles is facilitated by Fourier Transform Infra ...

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This comprehensive review article summarizes major advances in the synthesis, characterization, and application of these materials in the past decade. Developments in the understanding of the fundamental principles of



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“bottom-up” growth mechanisms are presented, with an emphasis on rational control of the morphology, stoichiometry, and crystal structure of the materials.

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**Nanowires ...**

Noble-metal nanocrystals with controlled shapes have

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received considerable interest owing to their unique properties and potential applications related to plasmonics, catalysis, and electronics. In particular, decahedral nanocrystals have emerged a focus of intensive research in recent years because of their unique penta-twinned structure.

## **Decahedral nanocrystals of**

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**noble metals:**

**Synthesis ...**

Michael Volokh, Taleb Mokari,

Metal/semiconductor interfaces in nanoscale objects: synthesis, emerging properties and applications of hybrid nanostructures, Nanoscale Advances, 10.1039/C9NA00729F, (2020).

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