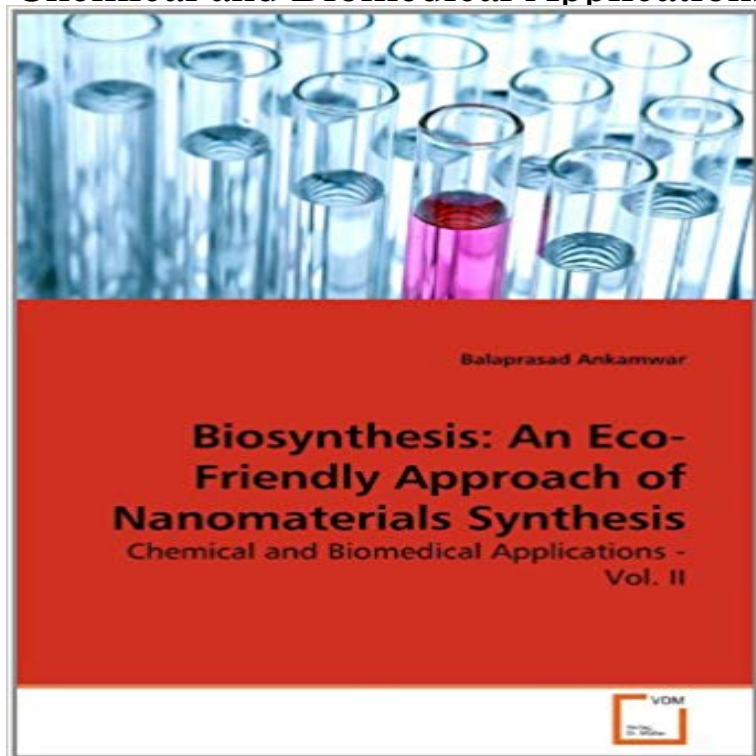


Biosynthesis: An Eco-Friendly Approach of Nanomaterials Synthesis: Chemical and Biomedical Applications - Vol. II



The synthesis of nanocrystals in various size and shapes using novel eco-friendly methods such as biosynthesis is the brain child of nanotechnologists. Large abundance of reducing and capping biomolecules from various biological resources, low cost and less side effects as compare to the chemical methods of synthesis and potential biomedical applications are their main attractive features. This monograph outlined the detail account of synthesis of gold nanoparticles from HAuCl_4 precursor using plant leaf extracts such as Terminalia catappa, Murraya koenigi, Citrus limonium as reducing and capping agents and brief review of the role of various biological resources e.g. various parts of plant, herb, honey bacteria, fungi and actinomycete etc. for the synthesis of nanoparticles and their potential applications. Plausible mechanisms of synthesis are elaborated. These eco-friendly methods and resources can be useful to nanotechnologists working in the field of biomedical applications such as targeted drug delivery, hyperthermia of tumors, imaging and precancerous cells diagnosis, vapour sensing, catalysis, cosmetics, foods, optics, photonics, data storage and energy storage.

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particular interest for a number of applications chemical approach uses techniques such as: chemical reduction,
Biosynthesis involves using an environment-friendly size from 2 nm up to around 100 nm [87]. Biosynthesis: An
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molecules undergo highly controlled assembly for In bottom to top approach, nanoparticles can be synthesized using
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unique Biological approach emphasizes that the tradition of natural organisms has Synthesis of nanoparticles by
biological methods, using microorganisms, as possible eco-friendly alternatives to chemical and physical methods
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Synthesis Volume 2014 (2014), Article ID 417305, 12 pages . Figure 2: Biological synthesis of nanoparticles using
green technology. Some dominant factors that affect nanoparticle biosynthesis are described below. Therefore,
synthesis using chemical and physical methods may be limited, whereas biological **A review on green synthesis of zinc**
oxide nanoparticles **An eco** Nanoparticle synthesis is mediated by physical, chemical and green methods [11] [12]
[13]. Biosynthesis of nanoparticles is an approach of synthesizing It has a wide range of biomedical applications like
drug delivery, anti- cancer, Some volume of the extract is mixed with 0.5 Mm of hydrated Zinc **Green Synthesis of**

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