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The present book includes green synthesis of nanoparticles by algae, diatoms and plants. The mechanism behind the synthesis of nanoparticles will also be discussed. The book would be a valuable resource for the students, researchers and teachers of biology, chemistry, chemical technology, nanotechnology, microbial technology and those who are interested in green nanotechnology.

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This book presents the green synthesis of nanoparticles by algae, diatoms, bacteria and plants, and discusses the mechanisms behind the synthesis of nanoparticles. The book should be immensely useful for students, researchers and teachers of biology, chemistry, chemical technology, nanotechnology, microbial technology and those who are interested in green nanotechnology.

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With the aim of promoting a green approach for the synthesis of NPs, this review describes eco-friendly methods for the preparation of biogenic NPs and the known mechanisms for their biosynthesis.

Metal nanoparticles fabricated by green chemistry using ...

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For using green synthesized nanoparticles for medical applications, especially in pharmaceutical industries, they should conform to the US food and drug administration (FDA) criteria. In this review, we explain the biosynthesis of metal and metal oxide nanoparticles by using microalgae and the involved mechanisms.

Biological synthesis of nanoparticles using algae. This chapter reviews the green synthesis of nanoparticles using algae. Specifically, the chapter covers the following topics: important aspects in the biosynthesis of nanoparticles; biosynthesis of nanoparticles using algae; and extraction of biosynthesized nanoparticles.

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