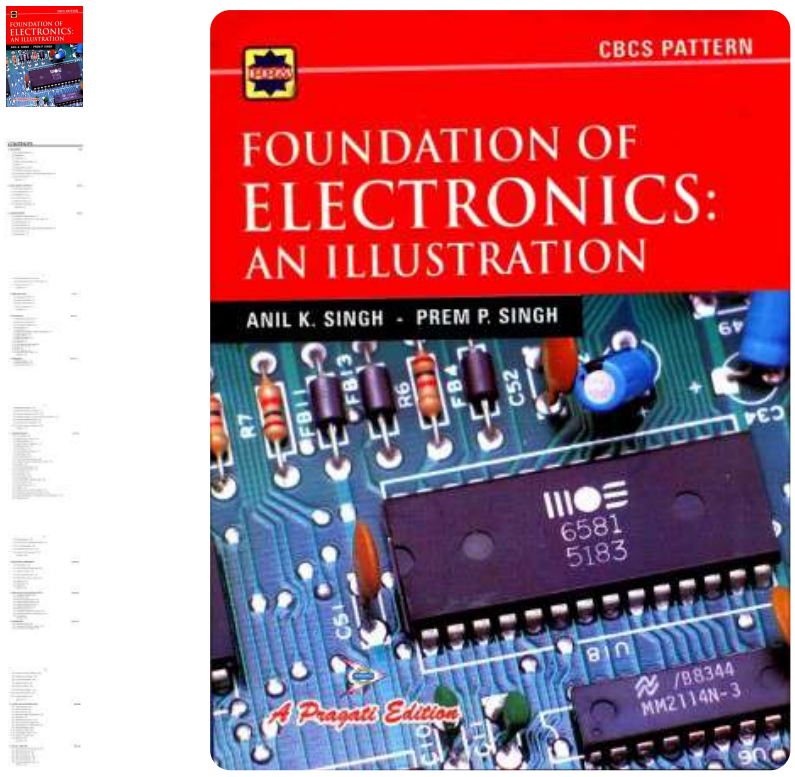

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(Anil Kumar Singh, Prem Prakash Singh)

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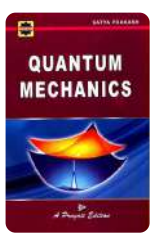

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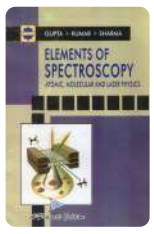

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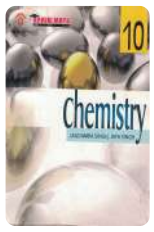

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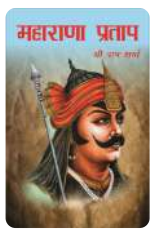

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2019, Pages 27-36

Chapter 2 - Safe nano is green nano

Sharda Sundaram Sanjay

https://doi.org/10.1016/B978-0-08-102579-6.00002-2

Abstract

Technology has brought great benefits to human society, making life easier with good health and communication. But, in spite of these benefits, there are still underlying threats to existing life. The world is under the same kind of threat with nanotechnology. But with the help of new methodologies to replace existing applications of green nanotechnology, health and environmental hazards can be tackled in a better way. Green nanotechnology is not merely initiating the next industrial scientific revolution but is also facilitating technological solutions by developing new industrial and chemical methodologies. These new methodologies will develop alternative replacement materials for hazardous processes and constituents, offering better solutions to these problems, thus rightly reflecting the fact that safe nano is green nano.

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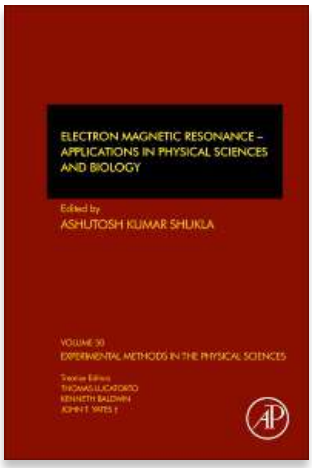

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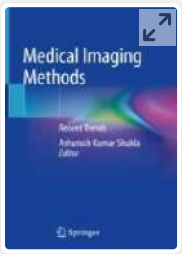

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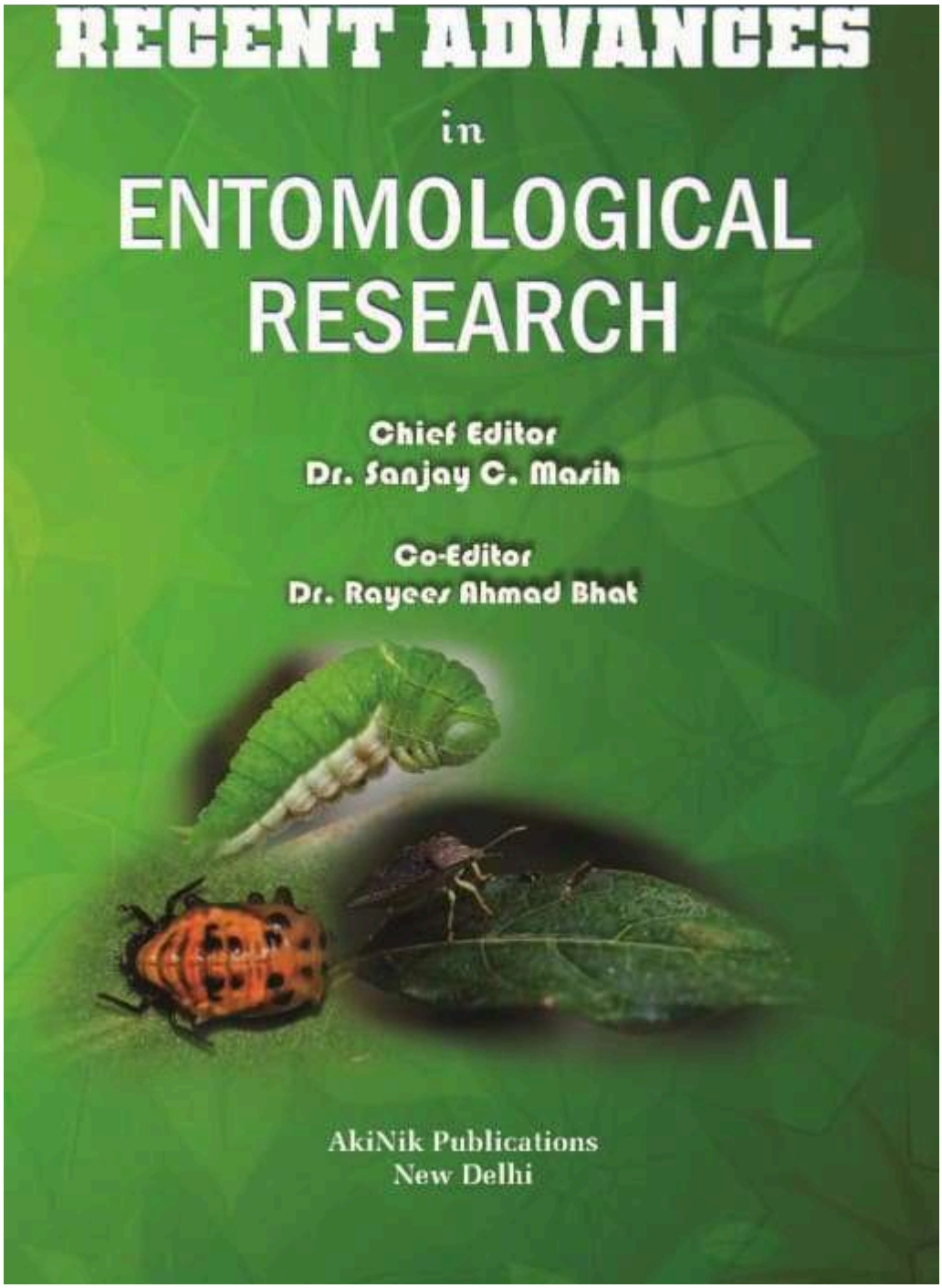

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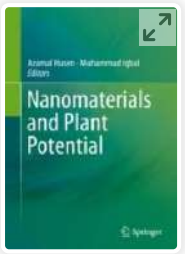

Nanomaterials and Plant Potential pp 177–191

Plant Protein-Based Nanoparticles and Their Biomedical Applications

Siavash Iravani & Ashutosh Kumar Shukla

Chapter | First Online: 02 March 2019

Abstract

Herbal medicines, plant products, and phytotherapeutics have been widely used all over the world since the ancient time. In phyto-formulation studies, researchers have attempted to develop nano-dosage forms, such as liposomes, proliposomes, solid lipid nanoparticles (NPs), nanoemulsion, and protein-based and lipid-based drug delivery systems. In this field, enhancement of solubility and bioavailability, protection from toxicity, enhancement of pharmacological activity, enhancement of stability, improving tissue macrophage distribution, sustained delivery, and