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Green Processes



Volume 8: Green Nanoscience

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Green Chemistry is a vitally important subject area in a world where being as green and environmentally sound as possible is no longer a luxury but a necessity. Its applications include the design of chemical products and processes that help to reduce or eliminate the use and generation of hazardous substances.

The Handbook of Green Chemistry comprises 12 volumes, split into subject-specific sets as follows:

- Set I: Green Catalysis
- Set II: Green Solvents
- Set III: Green Processes
 - Volume 7: Green Synthesis
 - Volume 8: Green Nanoscience**
 - Volume 9: Designing Safer Chemicals
- Set IV: Green Products

Production of materials on a nanoscale can be considered to be environmentally friendly as fewer raw materials are required. These processes are being streamlined in order to reduce/recycle the types of chemicals used in order to create them. The aim of this book is to describe the existing synthetic tools, explain their characteristics and to provide a basis for the design of new multiphasic catalytic systems. In particular, the advantages of spontaneous phase separation to recover products, catalyst, and byproducts make for ease of operation and of separation are discussed.

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Volume 8 of 12

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