Nanotechnology is one of the most significant in the area of scientific and industrial research which breakthroughs on the 21st century. Although nanotechnology continues to provide new materials and applications that have been beneficial for society, there is a growing concern about the potential health and environmental consequences of manufacturing and using nanoscale products. This focus on the discussion, in the need for a research agenda that addresses these nanomaterial complexities through coordinated research on the applications and implications of new materials. With nanomaterials, scientists are playing a key role as we progress from understanding to minimizing nanomaterial hazards. Green nanoscience is presented as a method for determining and enforcing design rules for safer nanomaterials, with the more efficient processes. This Special Issue of green nanosystems aims to collect the cutting-edge contributions for the use of environmental and biological applications attributable to their new or increased properties depending upon their size, distribution, and morphology. Green chemistry techniques combined with nanotechnology applications have thus become an important component of the nanotechnology future. The use of natural ingredients in the synthesis of nanomaterials and the development of environmentally friendly synthetic processes have received a lot of attention. Biomedical, catalysis, chemical industries, cosmetics, drug delivery, environment, energy science, food and feed, as well as health care applications are some of the environmental and biological applications. Below the list of proposed tentative topics is presented.

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**DESCRIPTION**

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**KEY TOPICS**

- Green synthesis  
- Chemical process  
- Synthetic chemistry techniques  
- Industrial catalysis  
- Catalysis processes and applications  
- Photochemistry  
- Chemical kinetics and catalytic activity  
- Nanocomposites, hybrid  
- Nanocrystals, nanoparticles
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