

Call for Book Chapters/Research Papers for Edited Books To be published with ISBN under IIP International publishers, USA and India

Green Chemistry and Sustainable Technology with Materials



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Call for Chapters

Green Chemistry and Sustainable Technology with Materials

Aims and Scope:

The title "Green Chemistry and Sustainable Technology with Materials" encompasses a comprehensive and interdisciplinary approach to addressing environmental and sustainability challenges through innovative chemistry, materials science, and technological advancements. The primary aim is to promote sustainable practices within chemical processes, emphasizing the reduction of environmental impact, waste minimization, and the utilization of renewable resources. The title also aims to support the advancement of sustainable technologies, such as renewable energy systems, cleaner production methods, and waste reduction processes. Interdisciplinary collaboration is encouraged, bringing together chemists, material scientists, engineers, and environmental scientists to develop holistic solutions to pressing global sustainability challenges. The scope of this field includes research on green synthesis and processes that prioritize energy efficiency, the use of renewable feedstocks, and minimal waste generation. It covers the development of sustainable and renewable materials, eco-friendly catalytic processes, and energy-efficient technologies that contribute to a reduced environmental footprint. Additionally, innovations in waste minimization, recycling, and material recovery are explored to close the loop on material use. The field also examines the environmental impact of materials and processes through life-cycle analysis, aiming to minimize their ecological footprint. Finally, the role of policy and education in promoting green chemistry and sustainability is considered, with an emphasis on developing strategies to cultivate a culture of sustainability in science and engineering.

List of Topics:

- Green chemistry: A framework for sustainable future
- Need, Goals and Obstacles of Green chemistry
- Green chemistry: fundamentals and applications
- Fundamentals of GC: Efficiency in reaction design
- Green chemistry and catalysis
- Metrics of GC and sustainability: Past, Present and Future
- GC, green solvents and alternative techniques in organic synthesis
- Advances in green synthesis of nanoparticles
- Bio Materials, Semiconductor Materials
- Liquid Crystals, Alloys
- Metallurgy, Ceramics
- Green chemistry and Nanotechnology
- Green chemistry and surface science
- Solid State Physics
- Green synthesis of hybrid materials
- GC metrics with reference to green analytical chemistry
- Future Trends in Green Chemistry

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