

Special Issue

Innovative Materials and Technologies for Pollutants Removal and Green Energy Production and Storage

Message from the Guest Editors

Environmental quality is vital for life and sustainable development, yet urban pollution continues to rise due to human activities, especially in energy production. To meet the pollution prevention desiderata, new solutions for green energy production are envisaged, along with the development of new materials for environmental quality remediation by pollutant removal in a sustainable manner. This special issue invites contributions focused on innovative solutions for pollutant removal and green energy systems to support environmental sustainability. Topics include:

- Advanced technological processes for pollutant removal (air, water, soil)
- Synthesis of emerging materials (biochar, aerogels, graphene-based composites)
- Development of energy production/storage systems (fuel cells, supercapacitors, photovoltaics)
- Process modeling, integration, and optimization
- Terrestrial and space applications with environmental performance focus

Both original research articles and reviews are welcome.

Guest Editors

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Prof. Dr. Igor Cretescu

Prof. Dr. Manuel Andrés Rodrigo

Deadline for manuscript submissions

30 November 2025



Processes

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CiteScore 5.5



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Editor-in-Chief

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