# Special Issue

# Synthesis, Optimization, and Reuse of Sustainable Bio-Based Materials

## Message from the Guest Editors

One of the main strategies to contain global warming is the bottom-up approach, focusing on the application of renewable resources to avoid preparing emerging products using the substrates generated from fossil fuels. However, it is also necessary to implement a top-down approach as well, focusing on the utilization of renewable bio-based matrices (which are considered CO2-neutral). Consequently, the application of bio-based materials appears to be a promising solution in order to overcome issues of environmental deterioration and help reduce the overall carbon footprint generated by the chemical industry. Therefore, for this Special Issue, we would like to invite researchers to submit original research works as well as review articles focused on the synthesis, modification, optimization, and reuse of bio-based materials. The biorefining of lignocellulosic materials to obtain useful fine chemicals is within the scope of this Special Issue as well. Moreover, research centered around applications of such bio-based, advanced materials will also be appreciated.

## Guest Editors

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## Deadline for manuscript submissions

closed (15 December 2024)

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## Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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