

## Special Issue

# Bioresources as Precursor for Novel Nanostructured Materials towards Environmental Remediation (Volume II)

### Message from the Guest Editors

The utilization of environmentally benign abundant and renewable materials on the way to a sustainable future is urgent to deal with the reality of the ongoing environmental crisis. A novel trend is the establishment of multifunctional materials that not only retain the pollutants but also possess the ability to either decompose or mineralize them catalytically. The incorporation and nano-engineering of the already efficient carbonaceous materials with reactive nanophases has gained the interest of the research community. Additionally, the usage of abundant bioresources such as biomass as feedstocks can further elevate the green-oriented nature of these media. Considering all the above, this Special Issue targets the latest trends and advances in carbonaceous nanostructured materials as well as nanocomposites for environment-oriented applications that reveal adsorptive and/or catalytic performances better than the currently used materials. Emphasis will be placed on biomass-derived materials, the reusability of the adsorbents, and on novel trends towards the enhancement of the catalytic/reactive decomposition or mineralization.

### Guest Editors

Prof. Dr. Ioannis Pashalidis

Dr. Ioannis Anastopoulos

Dr. Mariusz Barczak

Dr. Dimitrios Giannakoudakis

### Deadline for manuscript submissions

closed (20 April 2025)



## Materials

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### Message from the Editorial Board

*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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