

## Special Issue

# BioDerived Materials for Electrochemical Energy and Environmental Systems

### Message from the Guest Editor

The transition toward a sustainable society calls for the replacement of critical and fossil-derived components in electrochemical devices by abundant, renewable, and low-impact alternatives. Bio-sourced materials—ranging from biomass-derived carbons and biochars to lignin, chitosan, cellulose nanofibres, and other biopolymers—are emerging as high-performance candidates for electrodes, membranes, binders, and catalysts in next-generation electrochemical systems. This Special Issue aims to gather cutting-edge research and critical reviews on the design, characterization, and integration of bio-derived materials in devices such as microbial fuel cells, supercapacitors, metal-ion batteries, redox-flow batteries, electrolyzers, and electro-synthesis reactors. Contributions that link molecular-scale understanding to device-level performance, address scalability and life-cycle assessment, or showcase advanced characterization techniques are particularly welcome.

### Guest Editor

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### Deadline for manuscript submissions

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### Editor-in-Chief

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