

Special Issue

Biomass Derived Functional Materials: Updates on Biochar-Derived Compounds and Their Applications

Message from the Guest Editors

The transition toward a circular and low-carbon economy calls for the development of innovative, sustainable materials capable of meeting global environmental and technological challenges. Among these products, biomass-derived carbons, such as biochar and activated carbon, have emerged as highly versatile and value-added materials obtained from renewable and waste resources. Their unique physicochemical properties enable applications spanning environmental remediation, energy storage and conversion, catalysis, agriculture, and water treatment. This Special Issue aims to showcase the latest advances in the production, modification, and utilization of biochar and related carbon-based materials. We welcome the submission of original research articles, reviews, and short communications focusing on novel synthesis routes, structural tuning, surface functionalization, process optimization, and interdisciplinary applications. Studies integrating life cycle assessment, circular bioeconomy approaches, and scalable technologies are also encouraged.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

As a new international and multidisciplinary peer-reviewed open access journal for multidisciplinary chemistry focused on chemical compounds, Compounds (ISSN 2673-6918) has been founded to publish reviews, original research papers, communications, case reports, letters, and short notes. Our goal is for Compounds to become a journal where the scientific community can present their results under open access. Our core objective is to provide high-quality research contributions in a wide range of chemistry areas. Manuscripts dealing with chemical compounds; the relationship between structure, properties, and/or functions of all kinds of compounds; as well as chemical theory and applications are welcome.

Editor-in-Chief

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