

Special Issue

Environmental Management of Industrial Carbonization

Message from the Guest Editor

Industrial carbonization, from biochar and charcoal production to metallurgical coke and activated carbon manufacturing, is a cornerstone of many energy and materials supplychains, yet it carries a heavy sustainability burden. High-temperature operations release significant levels of CO₂, particulate matter, and other pollutants, challenging both environmental integrity and long-term economic viability. Embedding sustainability principles into environmental management systems can transform these processes: by adopting closed-loop resource flows, renewable energy integration, and circular economy practices, carbonization facilities can dramatically cut emissions, conserve raw materials, and foster community resilience. This Special Issue invites contributions that explicitly link industrial carbonization management to broader sustainable development objectives. We seek interdisciplinary research that evaluates how sustainable process design, life-cycle sustainability assessment, and green finance mechanisms drive decarbonization and resource efficiency.

Guest Editor

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I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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