

Special Issue

Advanced Materials and Technologies for Low-Carbon Bioenergy and Biochemicals

Message from the Guest Editors

The world is facing the problem of limited resources, while at the same time, issues related to energy, climate change, and environmental pollution are growing. We need a new paradigm and technology to tackle these challenges by providing renewable energy and materials in a sustainable manner: in short, we need to build a low-carbon circular economy. To realize the low-carbon circular economy, however, we need disruptive technologies and innovative materials. For instance, upcycling low-value byproducts and wastes into a higher-value product is one way that can contribute to the establishment of the low-carbon circular economy. This Special Issue will discuss new technologies and materials to facilitate the growth of the low-carbon circular economy, sustainably promoting society's prosperity. It is my pleasure to invite you to submit a manuscript to this Special Issue. Full papers, communications, and reviews are all welcome.

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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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