Carbon Reports Special Issue 2026:

"Carbon Materials Contributing to the Circulation of Chemical Resources"

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In recent years, there has been a growing call for a shift from the linear economy, characterized by mass production, mass consumption, and mass disposal, to a new socio-economic system. This new economic system, known as the circular economy, has been proposed in recent years, primarily in Europe. The circular economy aims to create a society that maximizes added value while promoting the efficient and circular use of resources at every stage. Rules are being established primarily in Europe, and as countries move toward this transition, Japan also adopted the "Circular Economy Vision 2020" in 2020, compiled by the Ministry of Economy, Trade and Industry.

Focusing on the circulation of carbon resources, technological development for the capture and recycling of CO_2 is actively underway both domestically and internationally. Meanwhile, looking at the "butterfly diagram", a conceptual diagram of the circular economy, the synthesis of high-performance, high-value-added carbon materials from forest and marine biomass resources also plays a crucial role in realizing the circular economy. The conversion of CO_2 into functional carbon materials is indispensable, and the development of catalyst materials and catalyst reaction processes contributing to this chemical reaction is also essential. As chemical recycling and material recycling progress, energy-saving improvements in adsorption, separation, and recovery processes are required, and carbon materials are expected to play a significant role in these processes.

Therefore, Carbon Reports is planning a special issue focused on the synthesis of carbon materials intended for resource circulation, the catalysts and catalytic reactions involved in their synthesis, and the development of catalysts and adsorbents for carbon resource circulation.

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