

Special Issue

Functional Nanoporous Carbon-Based Materials

Message from the Guest Editor

Functional carbon-based materials are crucial components in many applications, such as electrochemical energy storage (e.g., in battery or supercapacitor electrodes), molecular transformations (e.g., as catalyst supports or metal-free catalysts), adsorption-based processes (e.g., in gas or water purification), as sensors, or in engineering, to mention a few. Nanoporous sp²-based carbon materials with high specific surface area and pore volume are of particular interest because they combine the typical advantages of carbon (i.e., high chemical/thermal stability and electrical conductivity) with a large interface area between carbon and the surrounding phases as well as beneficial effects of nano-confinement. We are welcoming submissions of manuscripts dealing with all aspects of controlled and sustainable synthesis, new characterization techniques, and applications of nanoporous carbon-based materials to this special issue of C-Journal of Carbon Research. Contributions that draw important structure–performance–relationships are particularly appreciated.

Guest Editor

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Editor-in-Chief

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