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Synthesis of Mesoporous Carbons and Their Applications on Adsorption Process

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closed (30 June 2020)

Message from the Guest Editors

Mesoporous activated carbons are a new class of material which can overcome this drawback as they have single pore size distribution, large adjustable size, a high specific surface area, and hydrothermal stability. Their fine-tuned porosity, especially in the mesopore range, makes them suitable for high demanding applications as wastewater treatment or energy storage.

This Special Issue will focus mainly on mesoporous carbon, their preparation methods, and their applications in adsorption. In this context, the investigation of the effect of the different stages on the preparation process, optimization of synthesis variables, post-synthesis modification/activation, and characterization of the prepared materials are within the scope of the issue. Likewise, the Special Issue will cover all approaches providing an improvement of adsorption performance, adsorption equilibrium, and kinetic studies and modeling in batch as well as in continuous operation. We also welcome contributions on any aspect of adsorbent reusability and adsorbate recovery, and how to enhance selectivity towards specific adsorbate.

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Message from the Editor-in-Chief

ChemEngineering is to consolidate its position as a high-quality, open access journal that not only disseminates excellent research but also sets the agenda for future directions in chemical engineering. We will continue to highlight core areas such as catalysis, process intensification, and the circular economy, while also opening the door to emerging topics such as multi-energy systems that integrate light, heat, and electricity, etc., as well as digital tools, modelling, and artificial intelligence applied to chemical engineering.

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