Special Issue

Adsorption Process in Chemical Engineering

Message from the Guest Editors

This Special Issue will focus on, but is not limited to, theoretical and experimental advancements and developments related to the process systems engineering of adsorption as follows: the synthesis, characterization, and functionalization of novel multifunctional adsorbents computer-aided design of adsorbent preparation routes; the modeling of batch and continuous multicomponent adsorption systems; the control and optimization of adsorption processes; the design of intensified adsorption processes; computational tools for adsorption process engineering; the industrial design and scale-up of adsorption-based separations; artificial intelligence-based adsorption applications; life cycle analysis; circular-based production and supply chains of traditional and novel adsorbents; and case studies on the applications of emerging adsorbents in environmental depollution processes, industrial separations, energy storage, carbon dioxide capture, and the recovery of value-added products. The authors are invited to submit original research papers, reviews, and short communications.

Guest Editors

Prof. Dr. Adrian Bonilla-Petriciolet

Prof. Dr. Didilia Ileana Mendoza-Castillo

Prof. Dr. Hilda Elizabeth Reynel-Ávila

Deadline for manuscript submissions

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Editor-in-Chief

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