Special Issue

Development and Applications of Porous Materials in Adsorptions

Message from the Guest Editor

The development of advanced porous materials has witnessed strides in recent years. These materials exhibit unique properties that make them highly effective for adsorption, ranging from gas separation and purification to water treatment and pollutant removal. The tailored design of these materials allows for the fine-tuning of their pore sizes, surface chemistries, and functionalities, enabling precise control over adsorption capabilities. In industrial contexts, porous materials find applications in gas storage, separation processes, and catalysis. Their adaptability to different substances and efficient adsorption capacities makes them indispensable in addressing contemporary challenges related to energy, environmental sustainability, and resource management. This Special Issue aims to bring together cutting-edge research and innovative applications of porous materials in adsorption, providing a platform for researchers to share insights into the latest developments. From fundamental studies to practical implementations, the contributions in this issue promise to deepen our understanding of porous materials' diverse roles and impact on adsorption processes.

Guest Editor

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Separations offers the scientific community a high-quality, open-access journal option with rapid time-to-publication without any sacrifice of a rigorous peer-review process. We invite contributions ranging from fundamental characterization and instrumentation development through application of techniques to shed light on a broad spectrum of separation science needs. Since inception, *Separations*, has become unique in its combination of rapid publication and thorough scientific content. We invite you to consider us for your next contribution.

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