Special Issue

Development of New Adsorbent Materials and Understanding Adsorption Mechanisms

Message from the Guest Editor

Today, we are facing increasing challenges in the field of adsorption These challenges are accompanied by continuous efforts from the scientific community to develop new adsorbent materials with high efficiency, expanded capacity, and fast kinetics. Moreover, the conversion of solid wastes into innovative composite materials, offers an excellent opportunity for their reuse as well as reduces the demand on raw materials and energy.

The Special Issue of the Separations is open to novel articles on the development of new adsorbent materials for various environmental, industrial, and medical applications. The developed materials may cover activated carbons, metallic organic frameworks, carbon organic frameworks, carbonized/activated waste materials, silica gel, and zeolites, among others. Understanding the mechanisms of interaction between adsorbents and adsorbates is critical and would be given high consideration.

We are happy to invite you to submit a paper for this Special Issue of Separations. Full research, reviews, and communication articles are all welcomed.

Guest Editor

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Message from the Editor-in-Chief

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.

Editor-in-Chief

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