Special Issue

Development of Functionalized Porous Materials for Adsorption and Separations

Message from the Guest Editors

The selective separation, purification and recovery of many types of chemical species is imperitive to the principles of sustainability and circular economy. Adsorption technology is, in many ways, the ideal tool to accelerate this research need: it is inherrently low-energy, produces minimal secondary waste-streams and furthermore contributes to the remediation of environment and industrial effluent. Many interesting and exciting new porous materials have been reported in recent years, some of which seem to offer fundamental advantages over the state-of-the-art, in terms of performance and sustainability. Still, the 'bedrock' technologies of polymeric ion-exchange resins and inorganic zeolites are overwhelmingly favoured in the design and development of chemical separation processes. Submissions (original research and review articles) are invited for this special issue, which showcase the capabilities of porous materials, of all categories, to address the need for new and enhanced chemical separations via adsorption and ion-exchange.

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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.

Editor-in-Chief

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