



Advances in Materials for Separations: Energy and Environment

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Message from the Guest Editors

This Special Issue aims to present **recent trends in the controlled synthesis and modification strategies of advanced functional materials that play a vital role in the development of adsorption, catalytic, and membrane separation technologies for environmental pollution control and energy generation, conversion, and storage**. Approaching this call from the materials science perspective, a remarkable interest in synthesis and modification strategies for functional materials has been observed in recent years, such as (but not limited to) metal oxides, metal nanoparticles, semiconductors, metal–organic frameworks, natural microstructured materials, (bio)polymers, kaolinite/clay, carbon nitrides, nanofluids, carbon-based nanocomposites, etc. Due to the unique properties of these materials, attention has been paid to understanding the relationship between the molecular design of these advanced materials and the structure activity in various catalytic and adsorption-mediated transformation reactions in environmental and energy [...] for further reading, please follow the link to the Special Issue Website at: [https://www.mdpi.com/journal/](https://www.mdpi.com/journal/separations/special_issues/O1RS696HQU)

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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, *Chromatography*, 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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