# **Special Issue**

## Advances in Materials for Separations: Energy and Environment

### 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 adsorptionmediated transformation reactions in environmental and energy [...] for further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/ separations/special\_issues/O1RS696HQU

### **Guest Editors**

Dr. Sherif A. Younis

Analysis and Evaluation Department, Egyptian Petroleum Research Institute (EPRI), Nasr City, Cairo 11727, Egypt

#### Dr. Mohamed Betiha

Production Department, Egyptian Petroleum Research Institute (EPRI), Nasr City, Cairo 11727, Egypt

#### Deadline for manuscript submissions

closed (31 October 2023)



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Separations Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 separations@mdpi.com

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# About the Journal

### Message from the Editor-in-Chief

Separations offers the scientific community a highquality, open-access journal option with rapid time-topublication without any sacrifice of a rigorous peerreview 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

Prof. Dr. Frank L. Dorman Department of Chemistry, Dartmouth College, Hanover, NH 03755, USA

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