Special Issue

Separation and Remediation of Environmental Pollutants Using Functional Materials

Message from the Guest Editors

The adoption of advanced oxidation–reduction technologies for the separation and removal of pollutants from wastewater has garnered significant attention. While environmental functional materials can effectively achieve the catalytic degradation of contaminants, challenges such as high costs, significant secondary pollution risks, complex reaction mechanisms, low catalyst reusability, and engineering difficulties persist.

This special issue will present cutting-edge research on catalytic redox separation and degradation of environmental pollutants using functional materials. Topics of interest include, but are not limited to, the following:

Catalytic oxidation technologies;
Catalytic reduction technologies;
Metal oxides;
Inorganic catalysts;
Carbon-based catalytic materials;
Metal–organic frameworks (MOFs) and derivatives;
Covalent organic frameworks (COFs);
Engineering applications.

Guest Editors

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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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