Special Issue

Innovative Separation Techniques for Sustainable Recycling of Solid Waste

Message from the Guest Editors

This Special Issue focuses on the resource recycling of mining, nonferrous metal, coal-based, electronic solid waste, and other types of solid waste. We invite contributions to advance fundamental theories, experimental methods, computational models, or industrial applications in the following fields:

- Mining, nonferrous metal, coal-based, electronic solid waste;
- Intelligent disassembly, mechanical crushing, solvent extraction, heat treatment, and novel pretreatment methods;
- Gravity separation, airflow separation, magnetic separation, flotation, and other separation methods for valuable components;
- Pyrometallurgical technologies including high-temperature melting, carbon thermal reduction, and biomass pyrolysis gas reduction;
- Acid/alkali/bioleaching/ionic liquid/deep eutectic leaching of valuable metals;
- Solvent extraction/precipitation/ion exchange separation and purification technology;
- Material preparation of solid waste pretreatment products by sol-gel method, coprecipitation method, and high-temperature solid phase method;
- Direct repair technology of electrode material including solid phase/liquid phase/electrochemical.

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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

Prof. Dr. Frank L. Dorman
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