

Special Issue

Recycling and Value-Added Utilization of Secondary Resources

Message from the Guest Editors

Emerging secondary resources have been regarded as a huge wealth for direct conversion to value-added products. There are numerous papers that focus on the upcycling of spent batteries for advanced energy stored materials, carbon conversion catalysts, and electrocatalysts. Moreover, waste plastics are appropriate alternatives for high-value nitrogenated chemicals, carbon nanomaterials, and so on. Therefore, this Special Issue, entitled “Recycling and Value-Added Utilization of Secondary Resources”, is aimed at the technology and process development for the sustainable conversion of secondary resources to value-added products. Topics include, but are not limited to, the following:

- Characteristics of secondary resources (e.g., spent batteries, plastics);
- Upcycling and upgrading strategies from wastes;
- Value-added product recoveries and applications;
- Deep separation, purification and simulation;
- Material flow analysis and lifecycle assessment;
- Sustainable circular economy design and discussion;
- Use of biodegradable materials.

Guest Editors

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Editor-in-Chief

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