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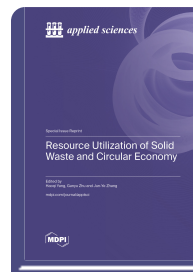
*Special Issue Reprint*

## **Resource Utilization of Solid Waste and Circular Economy**

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The global surge in solid waste generation, fueled by rapid industrialization and urban expansion, has posed one of the greatest environmental and resource security challenges of the 21st century. However, this challenge presents an equally powerful opportunity. This Reprint, "Resource Utilization of Solid Waste and Circular Economy", offers a timely and compelling collection of 11 cutting-edge studies that reconceptualize waste—not as a burden, but as a valuable resource for sustainable development.

What makes this collection unique? It integrates materials science, environmental engineering, energy technology, and digital innovation to present real-world, scalable strategies for solid waste valorization. From repurposing industrial by-products into low-carbon construction materials to designing AI-powered waste classification systems, each article exemplifies the innovative spirit of circular economy thinking.



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